PACIFIC SALMON COMMISSION JOINT TRANSBOUNDARY TECHNICAL COMMITTEE

ESTIMATES OF TRANSBOUNDARY RIVER SALMON PRODUCTION, HARVEST AND ESCAPEMENT AND A REVIEW OF JOINT
ENHANCEMENT ACTIVITIES IN 2005

## REPORT TCTR (08)-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-Obital-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

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

## EXECUTIVE SUMMARY

Estimates of harvests and escapements of Pacific salmon returning to the transboundary Stikine, Taku, and Alsek Rivers for 2005 are presented and compared with historical patterns. Average, unless stated differently, refers to the 1995-2004 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. Preliminary results from transboundary river sockeye salmon Oncorhynchus nerka enhancement projects are also reviewed.

## Stikine River

The 2005 Stikine River sockeye salmon run is estimated at 260,000 fish, of which approximately 180,000 fish were harvested in various fisheries including test fisheries. An estimated 76,000 Stikine River fish escaped to spawn, including 1,600 fish which migrated to the Tuya River block and were not harvested. The run and harvest were above average. The Tahltan Lake sockeye salmon weir count of 43,000 fish was above the upper bound of 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 92,000 fish. The Canadian inriver commercial and aboriginal fishery catches were 80,000 and 5,000 , fish, respectively. The inriver test fishery harvested 1,600 sockeye salmon and there was no marine test fishery in 2005. The Stikine Management Model (SMM) predicted a run substantially less than the preseason forecast of 478,000 fish throughout the course of the fishery. Weekly inseason model projections ranged from 174,000 to 275,000 sockeye salmon; the final inseason model prediction was 274,000 fish, with a total allowable catch (TAC) of 218,000 fish. Based on the postseason run size estimates and TAC calculations of 100,000 Stikine River fish for each country, Canada harvested $84 \%$ and the U.S. harvested $92 \%$ of their respective TACs. Broodstock collection and otolith sampling removed 3,400 and 400 sockeye salmon respectively from the escapement to Tahltan Lake leaving a spawning escapement of 39,600 fish. The estimated spawning escapement of 35,000 mainstem Stikine River sockeye salmon was within the goal range of 20,000 to 40,000 fish for this stock group. The total sockeye salmon run calculated from mark-recapture study was 268,000 sockeye salmon, close to the final SMM estimate of 275,000 fish.

The 2005 Stikine River Chinook salmon (non jack salmon) run is estimated at 90,000 fish, of which approximately 48,000 fish were harvested in various fisheries including test fisheries. An estimated 42,000 Stikine River fish escaped to spawn, above the 2005 escapement goal of 21,000 large Chinook salmon. The run and harvest were above average. The Little Tahltan River Chinook salmon escapement of 7,300 fish was above both the 2005 escapement goal of 4,000 fish and the upper bound of the goal range (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 29,000 fish. The Canadian commercial, aboriginal, and sport fisheries catches totaled were 19,000. The inriver test fishery harvested <50 large and jack Chinook salmon. There was no marine
test fishery in 2005. The Stikine Chinook salmon Management Model (SCMM) was persistent throughout the course of the fishery in predicting a total run size close to that of the preseason forecast. Weekly inseason run projections from the model ranged from 71,000 to 78,000 Chinook salmon. The weekly mark-recapture estimates ranged from 80,700 to 84,500 fish. The final inseason model prediction was 77,000 to 78,000 fish with a total allowable catch (TAC) of 56,000 fish. Based on the mark-recapture preliminary postseason terminal run size estimate $(79,600)$ and TAC calculations of 21,500 Stikine River fish for the Canada and 35,200 for the U.S., Canada harvested $85 \%$ and the U.S. harvested $86 \%$ of their respective TACs.

The 2005 run size of Stikine River coho salmon cannot be quantified. The U.S. marine harvest of Stikine River coho salmon O. kisutch is also unknown since there is no stock identification program for this species. Mixed stock coho salmon harvest in Districts 106 and 108 were 114,000 and 42,000 fish, respectively. Alaskan hatchery fish comprised approximately $27 \%$ and $21 \%$ of the coho salmon harvest from the two districts. The Canadian inriver coho salmon catch of 276 fish was below average. The aerial survey count of 3,200 fish from six index sites combined was below the 1995-2004 average. The lower Stikine coho salmon test fishery cumulative CPUE, however, was above average.

## Taku River

The postseason estimate of the 2005 Taku River sockeye salmon run is 189,000 fish, including an estimated catch of 69,000 fish and an above-border spawning escapement of 120,000 sockeye salmon. The run size was above the $1995-2004$ average and the escapement was above the goal range of 71,000 to 80,000 fish. An estimated 45,000 Taku River sockeye salmon were harvested in the District 111 commercial fishery, below the 1995-2004 average, and an estimated 1,000 sockeye salmon were harvested in the U.S. inriver personal use fishery. Canadian inriver commercial and aboriginal fishery harvest included 22,000 and 200 sockeye salmon, respectively, compared to the 1995-2004 average inriver harvest of 30,000 fish. The U.S. harvested an estimated $41 \%$ of the TAC and Canada harvested an estimated $19 \%$ of the TAC.

The harvest of large Chinook salmon in the Canadian commercial fishery in the Taku River was 7,400 fish, compared to the 1995-2004 average of 2,600 fish. The Canadian aboriginal fishery in the Taku River harvested 200 large Chinook salmon. District 111 mixed stock gillnet fishery harvest of 22,000 Chinook salmon compared to the 19952004 average of 4,000 . Approximately $4 \%$ of the harvest was estimated to be of Alaska hatchery origin. The above-border mark-recapture estimate for Chinook salmon is 47,000 fish.

The estimated above border run of Taku River coho salmon in 2005 is 100,000 fish, which is average for 1995-2004. The Canadian inriver commercial harvest included 5,000 coho salmon, compared to an average of 6,000 (1995-2004). After upriver Canadian harvest and test fishery catches are subtracted from the inriver run, the above-border-spawning escapement is estimated at 92,000 coho salmon, which exceeds the minimum escapement goal of 38,000 fish. The U.S. harvest of 20,000 coho salmon in the

District 111 mixed stock fishery was below the 1995-2004 average of 45,000 fish. Alaskan hatcheries contributed an estimated 2\% of the District 111 harvest, or 500 fish. The harvest of 182,000 pink salmon O. gorbuscha in District 111 was above the 19952004 average of 85,000 fish. Pink salmon were not retained in the Canadian commercial inriver fishery in 2005. The escapement of pink salmon to the Taku River was likely above average as evidenced by the fish wheel catch and release of 15,840 fish that is $32 \%$ above average.

The catch of chum salmon $O$. keta in the District 111 fishery was 93,000 fish; composed of 90,000 summer run fish (prior to mid-August) and 3,500 fall run fish. The harvest of summer chum salmon, primarily Alaskan hatchery stocks, was below the 1995-2004 average of 300,000 fish. The harvest of fall chum salmon, composed of wild Taku River and Port Snettisham stocks, was close to the average of 4,000 fish. As with pink salmon, there was non-retention of chum salmon in the Canadian inriver fishery and the reported catch was 0 fish in 2005. Although spawning escapement is not known the Canyon Island fish wheel catch of 256 chum salmon was $14 \%$ below average.


#### Abstract

Alsek River The Alsek River sockeye salmon harvest of 7,500 fish in the U.S. commercial fishery was below the 1995-2004 average of 20,000 fish. The Canadian inriver harvest of 600 fish was below the 1995-2004 average of 1,500 fish. The Klukshu River weir count of 3,400 sockeye salmon was the lowest on record and below the goal range of 7,500 to 15,000 fish. The count of 1,000 early run sockeye salmon (count through August 15) was below the 1995-2004 average of 3,100 fish. The late run count of 2,400 fish was below the average of 12,000 fish for the same period. The mark-recapture program was not run in 2005.


The Chinook salmon run to the Alsek River appeared to be below average. The U.S. Dry Bay catch of 240 large Chinook salmon was below the average of 650 fish. The combined Canadian sport and aboriginal fishery catch of 110 Chinook salmon was below the average of 520 fish. The 1,100 Chinook salmon counted through the Klukshu River weir was below the 1995-2004 average of 2,600 fish and the lowest on record. Of the total count, 960 Chinook salmon were estimated to have spawned, below the goal range of 1,100 to 2,300 Chinook salmon. The mark-recapture program was not run in 2005.

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 1,200 coho salmon was below the average of 6,200 fish, while the combined Canadian inriver aboriginal and sport fishery catch of 70 fish was below the average of 160 fish. The operation of the Klukshu weir does not provide a complete enumeration of coho salmon into this system since it is removed before the run is over; however, it does provide an annual index. The count of 700 coho salmon was below the average of 3,200 fish.

## Enhancement

Eggs and milt were collected from the year 2005 sockeye salmon escapements at Tahltan and Tatsamenie Lakes. A total of 4.5 million eggs were collected at Tahltan Lake. At Tatsamenie Lake, 1.9 million eggs were collected for the hatchery.

Outplants of 2004 brood-year sockeye salmon fry in May and June 2005 included, 1.2 million fry into Tahltan Lake, 3.2 million fry into Tuya Lake, and .6 million fry into Tatsamenie Lake. Green-egg to planted-fry survivals were $62 \%$, $86 \%$, and $84 \%$ for the Tahltan, Tuya and Tatsamenie outplants, respectively. Survival to emergence was above average.

The egg incubation and thermal-marking program was continued at Snettisham Hatchery in 2005. 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.

Adult sockeye salmon otoliths were processed inseason by the ADF\&G 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. Preliminary contribution estimates of planted fish to Alaskan harvest were 36,000 planted Stikine River fish to District 106 and 108, and 650 planted Taku River fish to District 111. Estimates of contributions to Canadian fisheries included 31,000 planted fish to Stikine River fisheries and 260 planted fish to the Taku River fisheries.

## INTRODUCTION

This report presents estimates of the 2005 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. The results of this meeting are summarized in: Pacific Salmon Commission Transboundary Technical Committee, 2005 Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2005 in prep.

Run reconstruction analyses are conducted on the sockeye and Chinook runs to the Stikine and Taku Rivers and for coho runs to the Taku River 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 sockeye stocks, District 111 for Taku River sockeye 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 small sport 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 O. tshawytscha; 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. In

2002 this area was excluded and another small portion of District 108 was included in the experimental fishery. In 2003, the new area included in 2002 was excluded.


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 of the PSC negotiations held in Portland, Oregon in February 2005 included: an agreement for new directed fisheries on 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 deliver 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 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. The sockeye salmon model is referred to as the Stikine Management Model (SMM). Both models were complemented inseason with concurrent Chinook and sockeye salmon mark-capture studies.

## Chinook Salmon

The SCMM model is based on the linear regression (correlation) between weekly cumulative catch per unit effort (CPUE) of large Chinook salmon observed at the tagging site and total run size based on mark-recapture studies conducted in 1996-2004. Each CPUE and run size data set is significantly correlated. In season model estimates were available commencing week 22. Mark-recapture estimates based on the cumulative ratio of tagged-to-untagged fish observed in the in river commercial fishery, were generated post week 23. 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. Guideline harvests were derived from historical run timing data from the Kakwan Point tagging site (located 24 km downstream from the Canadian commercial fishery) applied to either the preseason forecast of terminal run, or inseason run projections. Run timing information was also garnered from the historical CPUE observed in US District 108 Chinook salmon drift gillnet fishery, 1969-1978.

The preseason Chinook salmon forecast was used during week 19) through week 21. After week 21, inseason forecasts of total run size and TAC, produced by the SCMM and based on Kakwan Point tagging site CPUE data, were used to assist in determining weekly fishing plans (Table 1). After week 23, mark-capture estimates were generated to complement the SCMM estimate. 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.

Table 1. Stikine River large Chinook run size based on a model (SCMM) and markrecapture estimates, weekly AC, and weekly catch estimates from the District 108 drift gillnet, sport, and troll fisheries and the Canadian gillnet and sport fisheries, 2005.

| Stat Week | Start Date | Total Run | TAC |  | Estimated Harvest |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Weekly | Weekly | Cum. |
| Canada Estimates |  |  |  |  |  |  |
| 19 | 1-May | 80,285 | 22,519 | 132 |  |  |
| 20 | 8-May | 80,285 | 22,519 | 1,384 | 390 | 390 |
| 21 | 15-May | 80,285 | 22,519 | 2,477 | 194 | 584 |
| 22 | 22-May | 71,711 | 19,719 | 1,940 | 1,627 | 2211 |
| 23 | 29-May | 72,388 | 19,719 | 3,334 | 2,019 | 4230 |
| 24 | 5-Jun | 72,966 | 20,419 | 2,334 | 3,333 | 7563 |
| 25 | 12-Jun | 75,161 | 20,819 | 2,717 | 3,415 | 10978 |
| 26 | 19-Jun | 75,309 | 20,819 | 3,300 | 3,273 | 14251 |
| 27 | 26-Jun | 78,063 | 22,219 | 1,987 | 2,222 | 16473 |
| 28 | 3 -Jul | 76,599 | 21,500 | 1,140 | 1,602 | 18075 |
| 29 |  |  |  |  |  |  |
| Final |  | 90,106 |  |  |  | 18,636 |
| U.S. Estimates |  |  |  |  |  |  |
| 19 | 1-May | 80,258 | 27,250 | 2,190 | 700 | 771 |
| 20 | 8-May | 80,258 | 27,250 | 3,011 | 2,389 | 3,243 |
| 21 | 15-May | 61,244 | 27,250 | 3,400 | 3,255 | 5,984 |
| 22 | 22-May | 59,427 | 19,450 | 3,380 | 3,286 | 8,512 |
| 23 | 29-May | 77,371 | 18,150 | 2,102 | 7,940 | 17,472 |
| 24 | 5-Jun | 84,317 | 29,850 | 3,914 | 10,561 | 27,233 |
| 25 | 12-Jun | 78,710 | 34,400 | 3,836 | 1,880 | 27,351 |
| 26 | 19-Jun | 83,221 | 29,850 | 2,261 | 1,217 | 29,431 |
| 27 | 26-Jun | 78,539 | 35,700 | 865 | 656 | 30,087 |
| 28 | 3-Jul | 78,052 | 30,500 | 302 | 315 | 30,402 |
| 29 | 10-Jul | 78,052 | 30,500 | 0 | 163 | 30,565 |
| Final |  | 90,106 |  |  |  | 29,491 |

Weekly guideline quotas were established in District 108 based on the historical run timing curve generated from the 1969-1978 CPUE tempered by the historical run timing observed at the Kakwan Point tagging site, 1996-04. [Note: the historical District 108 run timing curve peaked almost two weeks later than the peak run timing observed at Kakwan Point]. It was decided, therefore, to advance the District 108 historical run timing one week from the original 1969-1978 average. The run timing and weekly quotas for the Canadian lower Stikine fishery were based on the historical run timing at Kakwan Point advanced three days to reflect the three day travel time from the Kakwan to the lower Stikine fishery site. This adjustment was based on a daily migration rate of $9.3 \mathrm{~km} /$ day as determined from radio tagged Chinook salmon tracked upstream of the international border in 1997.

The preseason forecast for the terminal Stikine River large Chinook salmon run was approximately 80,300 fish (Table 1), which indicated a run size characterized as well
above average. Unlike the sockeye salmon forecast, the preseason forecast of large Chinook salmon was not separated into run components or stock groupings, i.e. run size estimates for the Little Tahltan River (principal stock) or Iskut River or mainstem Chinook salmon were not forecast. The requisite data is not yet available to generate stock specific predictions. Canadian inseason predictions of terminal run size ranged from 71,700 to 78,000 Chinook salmon; U.S. projections ranged from 49,400 to 84,300 Chinook salmon (Table 1). Managers had daily run projections due to the prompt transmission of catch and effort from the Kakwan Point tagging site. Typically the projections calculated late in the week (Thursday or Friday) were used in decisions governing the following week’s fishery openings. Managers also utilized weekly markrecapture estimates after week 23 in the formulation of weekly management plans. All projections generated by both the SCMM and the M-R study indicated an above average run. Based on M-R data, the final post season estimated terminal run size of Stikine Chinook salmon was 90,100 , close to the final inseason estimate of 77,000 to 78,000 large Chinook salmon, and the preseason forecast of 80,300 fish, Table 1.

## Sockeye Salmon

The sockeye salmon model (SMM) was upgraded to provide inseason projections of the total Stikine River sockeye salmon run as well as the following components of the run: the Tahltan stock (wild and planted combined); the planted Tuya stock; and the mainstem stocks. The model for 2005 was based on CPUE data from 1985 to 2004 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 25 for District 106 and week 26 for the inriver fisheries. As in 1999-2004, 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.

In 2005, the preseason forecasts were used during weeks 25-27. After week 27, inseason forecasts of total run size and TAC, produced by the SMM and based on CPUE data in the lower river commercial fishery, were used to assist in determining 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). 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. Initially in 2005 the inriver test fishery CPUE was the primary forecast used however, the CPUE from the commercial fishery was used after week 26 (extended fishery openings provided more data than the limited or absent test fishery). Calculations for the lower Stikine River commercial CPUE excluded catch and effort data from the Flood Glacier
area, i.e., the new area introduced in 1997 and fished through the 2000 season and again opened in 2004 and 2005. In addition, the annual weekly CPUE values for 1994 through 2000 were decreased by a factor of 0.75 for the extra gear allowed in the commercial fishery during that period. This made the historical CPUE data for that period more comparable with the 2005 fishing season and the pre-1994 era.

Table 2. Weekly forecasts of run size and total allowable catch for Stikine River sockeye salmon as estimated inseason by the Stikine Management Model, 2005.

| Stat. Week | Start <br> Date | Forecast <br> Run Size | TAC |  |  | Cumulative Catches ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | U.S. | Canada | U.S. | Canada |
| Model runs generated by Canada |  |  |  |  |  |  |  |
| 26 | 19-Jun | 477,120 | 422,909 | 211,455 | 211,455 | 18,115 | 659 |
| 27 | 26-Jun | 477,120 | 422,909 | 211,455 | 211,455 | 37,535 | 14,401 |
| 28 | 3-Jul | 191,917 | 134,297 | 67,148 | 67,148 | 60,270 | 30,944 |
| 29 | 10-Jul | 189,540 | 132,564 | 66,282 | 66,282 | 80,783 | 51,654 |
| 30 | 17-Jul | 223,762 | 167,090 | 83,545 | 83,545 | 91,020 | 66,465 |
| 31 | 24-Jul | 237,574 | 180,919 | 90,459 | 90,459 | 94,582 | 75,337 |
| 32 | 31-Jul | 253,786 | 197,199 | 98,599 | 98,599 | 96,695 | 82,795 |
| 33 | 7-Aug | 253,350 | 196,760 | 98,380 | 98,380 | 100,046 | 85,782 |
| 34 | 14-Aug | 273,724 | 217,179 | 108,590 | 108,590 | 100,735 | 85,863 |
| Model runs generated by the U.S. |  |  |  |  |  |  |  |
| 25 | 12-Jun | 477,120 | 421,096 | 210,548 | 210,548 | 464 | 0 |
| 26 | 19-Jun | 477,120 | 421,096 | 210,548 | 210,548 | 4,063 | 832 |
| 27 | 26-Jun | 477,120 | 421,096 | 210,548 | 210,548 | 24,197 | 6,822 |
| 28 | 3-Jul | 174,037 | 116,068 | 58,034 | 58,034 | 43,838 | 18,409 |
| 29 | 10-Jul | 178,491 | 132,433 | 66,221 | 66,221 | 70,674 | 32,351 |
| 30 | 17-Jul | 222,687 | 166,052 | 83,026 | 83,026 | 100,790 | 52,368 |
| 31 | 24-Jul | 247,178 | 191,640 | 95,820 | 95,820 | 93,645 | 67,617 |
| 32 | 31-Jul | 237,385 | 180,695 | 90,348 | 90,348 | 95,961 | 75,888 |
| 33 | 7-Aug | 253,791 | 197,174 | 98,587 | 98,587 | 98,348 | 79,408 |
| 34 | 14-Aug | 274,896 | 109,154 |  |  |  |  |
| Postseason estimate (from Table 3). |  |  |  |  |  |  |  |
|  |  | 264,138 | 208,382 | 103,585 | 103,585 |  |  |

${ }^{\text {a }}$ does not include test fishery catches

Initially, average stock proportions in District 106 and 108 catches, from historical postseason scale pattern analysis (SPA), were assumed for weekly catches; the 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. Inseason otolith sampling was conducted to estimate the contribution of planted Tahltan and Tuya Lake sockeye salmon to catches in these areas. 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 477,100 fish (Table 2), which indicated a run size characterized as well above average and a potentially record run. The forecast included approximately 214,500 natural Tahltan sockeye salmon (45\%), 184,000 planted Tahltan fish (39\%), 3,500 planted Tuya sockeye salmon (1\%), and 75,100 mainstem fish (16\%). Canadian inseason predictions of
total run ranged from 190,000 to 274,000 sockeye salmon; U.S. forecasts ranged from 174,000 to 275.000 (Table 2). All forecasts indicated an above average run. Differences in U.S. and Canadian weekly predictions are due only to different catch data inputs being used for the updates. The inseason forecast tended to under-predict the run during the peak weeks of the fishery, in part, due to evidently delayed migratory timing. The inseason forecasts increased throughout the duration of the run and by the end of the fishery were approximately 10,000 fish above the preliminary postseason estimate (Table $2,3)$.

## U.S. Fisheries

The 2005 gillnet harvest in District 106 included 1,526 large Chinook, , 46 jack Chinook, 110,192 sockeye, 114,410 coho salmon, 461,187 pink, and 198,564 chum salmon (Appendix A.1). Chinook and pink salmon harvests were above average, while the other salmon harvests were below average. The postseason estimate of the contribution of Stikine River sockeye salmon to the District 106 total sockeye salmon harvest was 23,048 or $21 \%$ of the harvest (Appendix A.2). Sockeye salmon of Neck Lake and Hugh Smith Lake origin contributed the bulk of the domestic hatchery catch of 2,500 fish (2\%) to the District 106 fishery. An estimated 657 Chinook salmon in the District 106 harvest (42\%) were of Alaska hatchery origin (Appendix A.1). An estimated 30,727 coho salmon in the District 106 harvest were of Alaska hatchery origin, $27 \%$ of the total coho salmon harvest. The District 106 drift gillnet fishery was open for 53 days from June 12 through October 5 (Appendix A.1). This was slightly above the average fishing time of 46 days. 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 all but the last three weeks of the season. The greatest effort in vessels fishing, 95 boats, occurred in week 29. However, the greatest effort in boat days (300) occurred two weeks earlier in week 27 (Appendix A.1). The total season effort was 2,964 boat days (Appendix A.1).

The Sumner Strait fishery (Subdistricts 106-41 \& 42) harvested an estimated 21,426 Stikine River sockeye salmon (Appendix A.4), $26 \%$ of the total sockeye salmon harvest in that subdistrict. The Clarence Strait fishery (Subdistrict 106-30) harvested an estimated 1,622 Stikine River sockeye salmon (Appendix A.6), $6 \%$ of the total sockeye salmon harvest in that subdistrict.

In District 108, 24,293 large Chinook, 2,676 jack Chinook, 99,465 sockeye, 42,203 coho salmon, 106,395 pink, and 150,121 chum salmon were harvested for the season (Appendix A.7). The total harvest of Chinook salmon was almost three times the highest historical harvest (9,342 fish in 1972) due to the reopening of the directed Chinook salmon fishery in District 108. Total sockeye salmon harvest in District 108 was the third highest on record with coho salmon and pink salmon harvests each the second highest and chum salmon the highest on record. The District 108 fishery harvested an estimated 69,062 Stikine River sockeye salmon (Appendix A.8), 69\% of the District 108 sockeye salmon harvest. The District 108 fishery started on May $2^{\text {nd }}$ and had six weeks of directed Chinook salmon fishing before the usual sockeye salmon opening occurred in week 25. District 108 closed concurrently with District 106 on October $5^{\text {th }}$. The 78 days the district
was open is the highest on record (Appendix A.7). Excluding the directed Chinook salmon fishery, the district was open for 57 days of fishing, well above average. District 108 was open for at least three days a week with the exception of weeks $22,31,32$, and 38 when two-day openings occurred. An estimated $21 \%$ of the District 108 coho salmon harvest ( 8,986 fish) was of Alaskan hatchery origin (Appendix A.7). The Alaska hatchery Chinook salmon contribution in District 108 was estimated at 1,816 fish, $7 \%$ of the total

Table 3. Terminal run reconstruction for Stikine River sockeye salmon, 2005.

|  | Tahltan | Main | Total | Tuya | Tahltan |  | Total Stikine | $\begin{array}{r} \text { All } \\ \text { Planted } \end{array}$ | $\begin{array}{r} \text { All } \\ \text { Wild } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Wild | Planted |  |  |  |
| Escapement ${ }^{\text {a }}$ | 43,446 | 34,788 | 78,234 | 1,796 | 25,441 | 18,005 | 80,030 | 19,801 | 60,229 |
| ESSR Catch ${ }^{\text {b }}$ |  |  |  | 148 |  |  | 148 | 148 | 0 |
| Biological Samples | 400 |  | 400 |  | 242 | 158 | 400 | 158 | 242 |
| Broodstock | 3,424 |  | 3,424 |  | 2,074 | 1,350 | 3,424 | 1,350 | 2,074 |
| Natural Spawning | 39,622 | 34,788 | 74,410 |  | 23,202 | 16,420 | 74,410 | 16,420 | 57,990 |
| Excess ${ }^{\text {c }}$ |  |  |  | 1,648 |  |  | 1,648 | 1,648 |  |
| Canadian Harvest |  |  |  |  |  |  |  |  |  |
| Indian Food | 5,099 | 164 | 5,263 | 71 | 3,845 | 1,254 | 5,334 | 1,325 | 4,009 |
| Upper Commercial | 582 | 10 | 592 | 13 | 437 | 145 | 605 | 159 | 447 |
| Lower Commercial | 60,881 | 17,634 | 78,515 | 1,437 | 32,707 | 28,174 | 79,952 | 29,611 | 50,341 |
| Total | 66,562 | 17,807 | 84,370 | 1,521 | 36,989 | 29,573 | 85,891 | 31,095 | 54,796 |
| \% Harvest | 51.1\% | 38.3\% | 47.7\% | 99.7\% |  |  |  |  |  |
| Test Fishery Catch | 895 | 748 | 1,643 | 8 | 568 | 327 | 1,651 | 335 | 1,316 |
| Inriver Run | 110,903 | 53,343 | 164,246 | 3,325 | 62,998 | 47,905 | 167,572 | 51,230 | 116,341 |
| U.S. Harvest ${ }^{\text {ad }}$ |  |  |  |  |  |  |  |  |  |
| 106-41\&42 | 18,979 | 2,447 | 21,426 | 0 | 8,687 | 10,292 | 21,426 | 10,292 | 11,134 |
| 106-30 | 1,101 | 521 | 1,622 | 0 | 1,037 | 64 | 1,622 | 64 | 1,558 |
| 108 | 43,467 | 25,595 | 69,062 | 0 | 17,853 | 25,614 | 69,062 | 25,614 | 43,448 |
| Subsistence | 167 | 80 | 247 | 5 | 90 | 77 | 252 | 82 | 170 |
| Total | 63,714 | 28,643 | 92,357 | 5 | 27,666 | 36,048 | 92,362 | 36,053 | 56,309 |
| \% Harvest | 48.9\% | 61.7\% | 52.3\% | 0.3\% |  |  |  |  |  |
| Test Fishery Catch | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Run | 174,617 | 81,986 | 256,603 | 3,330 | 90,664 | 83,953 | 259,934 | 87,283 | 172,651 |
| Escapement Goal | 24,000 | 30,000 | 54,000 | 0 |  |  |  |  |  |
| Terminal Excess ${ }^{\text {e }}$ |  |  |  | 475 |  |  |  |  |  |
| Total TAC | 149,722 | 51,238 | 200,960 | 2,855 |  |  | 203,816 |  |  |
| Total Harvest ${ }^{\text {f }}$ | 131,171 | 47,198 | 178,370 | 1,682 |  |  | 180,052 | 67,630 | 112,422 |
| Canada TAC | 74,861 | 25,619 | 100,480 | 1,428 |  |  | 101,908 |  |  |
| Actual Catch ${ }^{\text {gh }}$ | 66,562 | 17,807 | 84,370 | 1,521 |  |  | 85,891 | 31,095 | 54,796 |
| \% of total TAC | 88.9\% | 69.5\% | 84.0\% |  |  |  | 84.3\% |  |  |
| U.S. TAC | 74,861 | 25,619 | 100,480 | 1,428 |  |  | 101,908 |  |  |
| Actual Catch ${ }^{\text {gh }}$ | 63,714 | 28,643 | 92,357 | 5 |  |  | 92,362 | 36,053 | 56,309 |
| \% of total TAC | 85.1\% | 111.8\% | 91.9\% |  |  |  | 90.6\% |  |  |

${ }^{\text {a }}$ Escapement into terminal and spawning areas from traditional fisheries.
${ }^{\mathrm{b}}$ Catch allowed in terminal areas under the Excess Salmon to Spawning Requirement license.
${ }^{\text {c }}$ Fish returning to the Tuya system are not able to access the lake where they originated due to velocity barriers.
${ }^{\mathrm{d}}$ Analysis of thermal marks indicated that 434 Tuya fish were harvested in U.S. marine catches. Numbers were insufficient to classify with SPA.
${ }^{\mathrm{e}}$ 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.
${ }^{\mathrm{f}}$ Includes traditional, ESSR, and test fishery catches.
${ }^{\mathrm{g}}$ Does not include ESSR or test fishery catches.
${ }^{\text {h }}$ U.S. harvest estimate differs from Joint Interception Committee estimate because no estimates are made for catches other than in the listed fisheries.
harvest. The weekly fishing effort in number of vessels fishing in District 108 during the usual fishery (weeks 25 through 41) was above average every week with the exception of weeks 26 and 27 . The season effort of 2,781 boat-days, during the usual fishery, in District 108 was more than twice the 1995-2004 average of 1,297 boat-days.

The District 108 test fishery did not take place in 2005.
The 2005 season was the second season a U.S. Federal subsistence sockeye salmon fishery was conducted on the Stikine River, and was the first 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, July 1 to July 31 for the sockeye salmon fishery, and August 15 to October 1 for the coho salmon fishery. The allowable fishing gear for the fishery was dipnets, spears, gaffs, rod and reel, beach seine, or gillnets not exceeding 15 fathoms in length with mesh size no larger than $51 / 2$ inches. A total of 34 permits were issued and the estimated harvests included 20 Chinook, 252 salmon, and 53 coho salmon.

Successful negotiations between the U.S. and Canada in February of 2005 resulted in the first commercial directed Stikine River Chinook salmon drift gillnet fishery in almost 30 years. The preseason forecast run forecast was approximately 80,000 large Chinook salmon. The U.S. allowable catch based on this forecast was 27,250 fish. The fishery was limited to the waters in District 108 in order to target large Stikine Chinook salmon. One hundred thirteen gillnetters made landings of Chinook salmon over the course of this six-week fishery from weeks 19 through 24 . A total of 21 days were fished within this time period. The gillnet fleet harvested an estimated 22,173 large Stikine Chinook salmon in District 108. The sport fishery was open continuously from weeks 19-29 with liberalized bag and gear limits. The sport fishery harvested an estimated 3,002 Stikine Chinook salmon during this time period. The troll fishery was open continuously in three hatchery access areas in 8-B from weeks 19-26 and was open for 5 days in week 27 . The spring troll fishery was closed by regulation on June 30. The troll fishery harvested 4,296 large Stikine Chinook salmon. The final cumulative U.S. harvest of large Stikine Chinook salmon through week 29 was 29,491 fish. The final estimate of the total terminal run was 90,106 large Chinook and was based upon mark-recapture information.

The District 108 directed Stikine Chinook gillnet fishery began at 8:00 am on Monday, May 2 (week 19) for a four-day period. An initial four-day opening occurred due to a very large Stikine Chinook preseason forecast combined with expected relatively low effort. District 108 was opened west of a line from Indian Point to Point Rothsay with several specific area closures that were established by the Petersburg and Wrangell Advisory Committees. The closures were intended to reduce conflicts between commercial and sport fishers and for steelhead conservation. The sport fish closures around Wrangell remained in effect throughout the six weeks of the fishery, while all but
one of the Petersburg closures were dropped after Memorial Day. Thirty-six gillnetters made landings in District 108 during this week. The majority of boats fished in Section 8-B, and this trend remained throughout the directed Stikine Chinook gillnet fishery. A unique dynamic of the fishery was the proximity to town, and few fishermen spent entire openings without tying to the dock. The first inseason run estimate was week 21; therefore the preseason forecast was used for the first three weeks of the directed Stikine Chinook fishery. The estimated District 108 harvest for week 19 was 700 large kings.

During weeks 20-21, District 108 was opened 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 66 boats in week 21. The cumulative harvest of large Stikine Chinook by the U.S. fisheries was estimated to be approximately 6,000 fish by the end of week 21. The first inseason forecast was estimated at 61,243 large Chinook salmon in week 21. With a forecast of this size, the U.S. allowable catch was 19,450 fish. This first inseason run estimate was smaller than the preseason forecast.

During weeks 22-23, time was reduced due to the Petersburg and Wrangell Sport Fish Derbies occurring over Memorial Day Weekend. District 108 was open for two days in week 22 and three days in week 23. Effort continued to increase to 76 boats in week 22 and 89 boats in week 23. Harvest of large Chinook salmon increased each of these weeks with an estimated 3,255 fish harvested in week 22 and 7,940 fish harvested in week 23 . The estimated cumulative harvest was 17,472 fish by the end of week 23 . The inseason forecast dropped to 59,472 fish in week 22 and increased to 77,371 fish in week 23 . The U.S. allowable catch based on the week 23 forecast increased substantially to 29,850 fish.

During week 24, District 108 was open for four days. The four-day opening was warranted due to a large increase in the U.S. allowable catch, and a shift in run timing later than normal. The effort was unexpectedly large with 104 boats making landings. The catch rates during this week were very similar to the high catch rates in the prior week. The large effort combined with the continued high catch rates resulted in an estimated U.S. harvest of 10,561 large Stikine Chinook. The estimated harvest from week 24 brought the cumulative harvest up to an estimated 27,233 fish. The inseason forecast also increased this week to 84,317 fish. The U.S. allowable catch derived from this forecast was 34,400 fish. This was the last directed Stikine Chinook opening.

During weeks 25-27 an area closure was implemented that closed a large portion of District 8 adjacent to the Stikine River mouth. The area closure was implemented to reduce harvest of Chinook salmon while still allowing for harvest of sockeye salmon. The U.S. Stikine Chinook harvest from weeks 25 through 29 accounted for an additional 2,153 fish.

The District 106 gillnet season began, and the District 108 season continued into sockeye salmon management, at 12:00 noon on Sunday, June 12 (week 25) for a three-day period. In District 108 the closed waters were expanded out from the Indian Point-Point Rothsay line to the old Stikine closure line in Section 8-A that closes off the Frederick Sound portion of the Stikine flats, and a further expanded line in Section 8-B that ran from Blind Slough to Two Tree Island Light to Neal Point Light to South Craig Point Light to Reef

Point to the northwest tip of Etolin Island. These closures, particularly the closure in Section 8-B, were placed in effect to reduce the harvest of Chinook salmon late into the run based on cumulative US allowable catch estimates at that time. 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. However, an initial three days were given due to the large forecast of Tahltan sockeye salmon. The estimated sockeye salmon CPUE in both districts for week 25 was below average for this week (Appendix A.2). However, the fishery was open in week 25 in only seven years in District 106 and four years in District 108 during the 1995-2004 period. There were 12 boats fishing in Sumner Strait (106-41) and three boats fishing in Clarence Strait (10630) during this opening. District 108 had a well above-average number of boats fishing with 48 boats making landings (Appendices A. 3 and A.5). The inseason otolith readings for District 106 indicated that the harvest in Sumner Strait consisted of $8.7 \%$ marked Tahltan bound fish and no Tuya fish. The District 108 fishery had a higher proportion of marked Tahltan (21.7\%) and no Tuya fish. The preseason SMM forecasted a total Stikine River TAC of 477,120 fish and a Tahltan TAC of 372,997 (Table 2). This would allow the U.S. fisheries to harvest a total of 211,455 Stikine River fish, including 186,498 Tahltan fish. The preseason forecast was used for weeks 25-27, while the inriver commercial fishery CPUE was used for the remainder of the sockeye salmon season. Normally, the inriver test fishery CPUE data is used in conjunction with the commercial fishery CPUE data, but the test fishery was only operated for the first week (week 27) and a couple of days of the next week. Therefore, the commercial fishery CPUE data was used almost exclusively.

During week 26, there were 44 boats fishing in Sumner Strait, 9 boats fishing in Clarence Strait and 45 boats fishing in District 8 for the four days fishing occurred (Appendices A. 3 and A.5). The sockeye salmon CPUE in both districts was above average for this week during the initial three-day opening. The above-average catch rates stimulated the decision to extend both District 106 and 108 for an additional 24-hour period. The expanded closure in Section 8-B remained in effect during this opening in attempt to comply with the US Chinook salmon allowable catch estimate.

During week 27, there were 56 boats fishing in Sumner Strait, 21 boats fishing in Clarence Strait and 72 boats fishing in District 108 (Appendices A. 3 and A.5). The District 106 and 108 sockeye salmon harvest and CPUE were below the respective 19952004 averages. The inseason otolith readings for sub-district $106-41$ for week 27 indicated that $24.0 \%$ of the catch was comprised of thermally marked Tahltan fish while no Tuya fish were indicated. The District 108 reading indicated $35.8 \%$ thermally marked Tahltan fish and $0.3 \%$ thermally marked Tuya fish. The estimated U.S. total Tahltan sockeye salmon harvest by the end of this week was 32,035 fish.

During week 28, District 106 and 108 were opened for an initial three days (Appendix A.7). There were 14 boats fishing in Clarence Strait and 64 boats in Sumner Strait, and a total of 98 boats fishing in District 108 for the week (Appendices A.3, A.5, and A.7). Surveys on the fishing grounds showed that the CPUE for the three-day opening was near the ten-year average in District 106 and was above the ten-year average in District 108.

The above-average District 108 catch rates demonstrated solid run strength as the effort in the district was above average. A 24-hour midweek opening occurred in District 108. The percentage of thermally marked Tahltan sockeye salmon in District 106 (11.9\%) started falling off this week. On average, the peak Tahltan abundance occurs in District 106 in week 27 and this year did not seem to be an exception. This week the SMM switched from the preseason forecast to a forecast based on the Canadian inriver commercial fishery CPUE (Table 2). The estimated cumulative U.S. harvest of Tahltan sockeye salmon in District 108 was 29,258 fish while 18,615 fish were estimated in District 106 making a total estimated U.S. Tahltan sockeye salmon harvest of 47,873 fish through week 28. The week 28 U.S. TAC from the SMM was 58,162 Tahltan sockeye salmon. The SMM forecast of the total Tahltan sockeye salmon run decreased markedly this week from the pre-season forecast (from 398,500 fish to 141,828 fish), while the forecast for the mainstem Stikine sockeye salmon run decreased to a lesser extent (from 75,120 fish to 62,330 fish).

During week 29, 95 boats fished in District 106 and 105 boats fished in District 108 (Appendices A. 1 and A.7). Indices of inriver run strength of Tahltan sockeye salmon continued to be good with high catch rates in the lower river commercial fishery in Canada. Both districts were open for an initial three days of fishing time. Fishing ground surveys showed that sockeye salmon CPUE for the three-day opening was generally below average in District 106 and just above average in District 108. The effort in District 108 this week was significantly above average, and a number of boats in the district were starting to target returning Anita Bay chum salmon. The continued solid catch rates of sockeye salmon in District 108, even when some boats were beginning to target chum salmon, signified a strong sockeye salmon run. A 48-hour midweek opening occurred in District 108. Another factor considered in deciding upon the extended fishing time in District 108 was the historical run timing of Tahltan sockeye salmon. The week 29 opening would most likely be the last time to fish on a significant Tahltan component. The inseason otolith readings for week 29 indicated that the marked Tahltan fish contributed $16.8 \%$ of the District 106 catch and $26.9 \%$ of the District 108 catch. The SMM run prediction increased for Tahltan sockeye salmon and continued to decrease for mainstem sockeye salmon. The estimated U.S. Tahltan harvest by the end of this week was 58,989 sockeye salmon with a U.S. TAC of 65,433 fish. The estimated U.S. harvest of mainstem sockeye salmon was 21,378 fish with a U.S. remaining TAC of 0 fish. The total mainstem run was estimated to be 45,976 sockeye salmon. It was generally believed that the SMM was under forecasting the mainstem run size, as was the case last year, due to the Tahltan sockeye salmon run being stronger and later than normal. An enlarged closure around Salmon Bay was implemented to increase sockeye salmon escapement into that lake system.

During week 30, there were 88 boats fishing in District 106 and 88 boats fishing in District 108 (Appendices A. 1 and A.7). Both districts were open for an initial three days. The sockeye salmon CPUE in District 106 was below average. The sockeye salmon catch rates in District 108 were near average even with a large amount of effort shifted to the south part of the district to concentrate on chum salmon. A 24-hour midweek opening occurred in District 108. The extended opening was a difficult decision and was based on solid sockeye salmon catches in District 108 and a mainstem component that appeared to
be slowly increasing. The U.S. catch of Tahltan sockeye salmon was estimated at 62,785 fish with a U.S. TAC of 78,684 fish. The inseason otolith readings for week 30 indicated that marked Tahltan fish contributed to $11.8 \%$ of the District 106 catch and $15.4 \%$ of the District 108 catch. The SMM estimated a total U.S. mainstem catch of 27,818 sockeye salmon with a remaining U.S. TAC of 0 fish. The mainstem run size estimate dropped to 30,095 sockeye salmon even though catch rates in the lower river commercial fishery remained high. The proportion of Tahltan fish to mainstem fish in the inriver commercial fishery remained high and signified a sustained Tahltan sockeye salmon run.

During week 31, there were 53 boats fishing in District 106 and 71 boats fishing in District 108. Both districts were open for an initial two days. The reduced opening was due to concern for McDonald Lake sockeye salmon as well as mainstem Stikine sockeye salmon. The District 108 sockeye salmon CPUE was above average while the District 106 CPUE was below average. There was no extended fishing time in either district this week. The U.S. catch of Tahltan sockeye salmon was estimated at 63,696 fish with a U.S. TAC of 80,729 fish. The SMM estimated a total U.S. mainstem catch of 30,470 fish with a U.S. remaining TAC of 0 fish. The mainstem run size estimate increased slightly this week to 32,273 sockeye salmon. The marked Tahltan component in District 108 remained relatively high at $17.7 \%$ of the catch according to the inseason otolith readings. This was the last week of the on-grounds gillnet survey.

During week 32, there were 55 boats fishing in District 106 and 50 boats fishing in District 108. Both districts were opened for an initial two days. Again, the reduced opening was due to concerns for both McDonald Lake sockeye salmon as well as mainstem Stikine sockeye salmon. As a result of concerns over these sockeye salmon stocks, the sockeye salmon management regime stayed in effect rather than switching into pink salmon management this week. The sockeye salmon catch rates in both districts were at or above average for the week. There was no extended fishing time in either district this week. The SMM estimated a U.S. harvest of 64,576 Tahltan sockeye salmon with a U.S. TAC of 84,099 fish. The mainstem harvest by the U.S. was estimated to be 31,703 sockeye salmon with a remaining U.S. TAC of 0 fish. The inseason otolith readings for week 32 indicated that marked Tahltan fish contributed to $21.5 \%$ of the District 108 catch. This is a large proportion of Tahltan fish for this time of year. The final model run was extended out to week 33 this year due to the later run timing of Stikine sockeye salmon. The final SMM run estimated a total U.S. catch of 98,348 Stikine sockeye salmon with 65,069 Tahltan fish and 32,863 mainstem fish estimated. The final mainstem run size was estimated at 60,968 fish, which still left the U.S. well over the mainstem TAC. The total Stikine sockeye salmon run estimate based on the SMM was 274,896 fish (Table 2).

During weeks 33 through 35, both Districts 106 and 108 were managed for pink salmon. Both districts were open four days a week through week 35. Section D of District 106 was closed from week 33 through week 36. 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 2005 season, the fishing effort was substantially less than average in District 106, however, in

District 108 the effort was well above average for this time period. Total pink salmon harvest was above average in both districts with the harvest in District 108 being the second highest on record.

Coho salmon management typically commences in late August or early September in both the District 106 and 108 gillnet fisheries. During week 36 (August 28 - September 3) the management emphasis changed from pink to coho salmon. Prior to the change to coho salmon management the District 106 fishery harvested 61,068 coho salmon, approximately $53 \%$ of the total District 106 coho salmon catch. The Alaska coho salmon hatchery contribution to the District 106 fishery was below average every week of the season with the exception of weeks 25 and 40 . Catch rates during the fall coho salmon season were generally below average in both districts. One exception to the lackluster catch rates was in week 38 when both districts had above-average coho salmon CPUE. Districts 106 and 108 were open three days per week from week 36 through 41 except in week 38 when they were only open for two days. Troll coho salmon catch rates across the region were high. Abnormal weather patterns may have contributed to the poor gillnet catches. The weekly coho salmon harvest in District 108 was well above average for the fall coho salmon season, but this was due to increased effort rather than increased catch rates. The season ended with a final three-day opening during week 41 (October 2-8).

## Canadian Fisheries

Catches from the combined Canadian commercial and aboriginal gillnet fisheries, and sport fishery in the Stikine River in 2005 included: 19,192 large Chinook, 1,982 jack Chinook, 85,890 sockeye, 276 coho salmon, 0 pink, and 39 chum salmon (Appendices A.10, A. 12 and A.13). In addition to these catches, 148 sockeye salmon were taken in a terminal fishery located at the mouth of the Tuya River (Table 3). Because of the new targeted Chinook salmon commercial fishery, the catches of large Chinook salmon were above average and represented a record catch. Catches of jack Chinook salmon were average, while the relatively minor catches of chum and coho salmon were below average. The catch of 85,890 sockeye salmon was also a record. The estimate of the total contribution of sockeye salmon from the Canada/U.S. fry-planting program to the combined Canadian aboriginal and commercial fisheries is 31,095 fish, $36 \%$ of the catch (Table 3).

Two test fisheries (sockeye and coho salmon) were conducted for stock assessment purposes in the lower Stikine River in 2005. The test fisheries were located immediately upstream from the Canada/U.S. border. Combined test fishery catches included: 21 large Chinook, 33 jack, 1,651 sockeye, 715 coho salmon, 71 pink, 93 chum salmon, and 72 steelhead trout (all steelhead trout and most of the coho salmon were released (Appendix A.15)). One objective of the sockeye salmon test fishery was to obtain data for the markrecapture study. Additional 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 and coho salmon run sizes. The objectives of the coho salmon test
fishery were to provide: a measure of run timing through the fishery; age and gender profiles; and, to assess the relative run size (relative to the sockeye salmon run size for which estimates are generated) based on catch per unit.

## Lower Stikine River Commercial Fishery

Canadian commercial fishers in the lower Stikine River harvested 19,070 large Chinook, 1,181 jack Chinook, 79,952 sockeye, 276 coho salmon, and 39 chum salmon in 2005 (Appendix A.10). All pink salmon and steelhead trout were released. The sockeye salmon catch was a record high. The catch of large Chinook salmon in the new, targeted fishery was also a record high catch. The catch of jack salmon was above average, while the catch of coho salmon and chum salmon were below average.

The estimates of the stock composition of the lower river sockeye salmon catch (Table 3) was as follows: 28,174 planted Tahltan fish, which accounted for $35 \%$ of the sockeye salmon catch; 32,707 wild Tahltan fish accounting for $41 \%$ of the catch; 17,807 mainstem fish accounting for $22 \%$ of the catch; and 1,437 planted Tuya fish which accounted for $2 \%$ of the catch.

Stock compositions of the commercial catch taken in the targeted Chinook and coho salmon fishery 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 is estimated at 3,300 large Chinook salmon, the catch of large Chinook salmon originating from 'other' stocks is estimated at 15,800 fish.

Weekly Chinook and sockeye salmon guideline harvests, based on SCMM and SMM 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 season. For purposes of managing the lower river catch, it was assumed catches of 2,000 large Chinook salmon would occur in the upper Stikine: 400, 200, and 1400 large Chinook salmon in the sport, upper commercial and Aboriginal fishery, respectively. For sockeye salmon, it was assumed the upper Stikine commercial and aboriginal fishery would take a combined harvest of 6,500 sockeye salmon. The balance of the Chinook and sockeye salmon TAC were managed in association with 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 26 was focused primarily on the harvest of large Chinook salmon. From week 27 through week, management emphasis switched to the Tahltan Lake sockeye salmon stock after which time the sole focus was the management of mainstem sockeye salmon stocks through the end of August. Coho salmon management focus commenced near the end of August.

The new, targeted Chinook salmon fishery commenced at noon May 07 (week 20) for a scheduled opening of three days. The opening was based on a preseason Canadian guideline harvest for week 20 of 1,500 large Chinook salmon. Water levels were
extremely low resulting in substantial damage to gear. This, in concert with an obvious paucity of fish in the river, resulted in relatively modest effort and a minor catch of 288 large fish. Several licensees left the fishing grounds early. No fishery extensions were granted.

The fishery was posted for four days in week 21 with a weekly target of 2,700 large Chinook salmon. Extremely high water, which was twice the average, affected the efficiency of the fishery and it was probable that the number of fish available to catch was substantially lower than calculated. The final weekly catch of only 141 fish was well below goal. As in week 20, effort was relatively modest. The licensees that left the fishing site in the previous week did not return this week. No fishery extensions were granted. A model estimate, based on the Kakwan Point catch data, was produced late in the week. The projected run size was $\sim 50,000$ fish; however, it was believed that the Kakwan Point catches were also unduly affected by the extremely high water and, therefore, potentially would have depressed the run size estimate.

The fishery was posted for five days in week 22 with a weekly target of $\sim 1,800$ large Chinook salmon. The catches at Kakwan Point tagging site improved resulting in an estimated projected run size of 72,000 large Chinook salmon. The full complement of licenses fished this week and harvested ~1500 large Chinook salmon. The water level dropped during the course of the fishery, resulting in improved fishing conditions. No fishery extensions were granted. The number of boats fishing District 108 continued to increase this week as it had since the start of the fishery; however, the US catches were below weekly guideline harvests.

The fishery was posted for five days in week 23 with a weekly target of $\sim 3,000$ large Chinook salmon. Based on the fishing performance in the previous week in which the total catch for five days was only 1,500 fish, it seemed highly likely extensions would be granted in order to harvest $\sim 3,000$ fish. The run size projection held at $\sim 72,000$ fish and the catches taken early in the opening were relatively good. In addition, catches at the Kakwan Point tagging site were above average. A two-day extension was granted after three days of fishing yet the total catch of 1,900 large Chinook salmon this week was well below the weekly guideline. This may have been associated with increased fishing pressure in District 108 where catches and effort continued to grow and the weekly US guideline harvest was exceeded this week.

It became apparent that the effort and fishing area in the lower Stikine fishery would have to be increased in order to harvest at weekly guideline levels. Accordingly, starting week 24, the fishing zone was extended upriver an additional 24 km to the mouth of the Flood River, and each licensee was permitted to fish two nets. The fishery was posted for five days in week 24 with a weekly target of $\sim 2,100$ large Chinook salmon. Catches were good at the outset of the fishery suggesting the weekly guideline harvest would likely be achieved this week. The Kakwan Point data indicated a total run size of $\sim 73,000$ fish and showed the run was continuing to build over week 23, which was historically the peak week of abundance. This suggested that this component of the inriver run was probably late. The weekly guideline harvest based on late run timing for this week was $\sim 3,100$
large Chinook salmon. The final catch for week 24 was $\sim 3,200$ fish. The first markrecapture projection of the season showed the terminal run at $\sim 82,000$ large Chinook salmon, approximately 10,000 fish above the model estimate. The U.S. District 108 catch this week was reported in at $\sim 10,000$ large Chinook salmon with up to 100 boats fishing. The catch was almost three times the weekly guideline raising concerns in Canada. In response, the U.S. reduced the fishing zone by approximately $75 \%$ for week 25 in order to curb catches and deliver the requisite fish to Canadian fisheries and the spawning grounds.

The fishery was posted for three days in week 25 with a weekly guideline of $\sim 2,700$ fish. After two days of fishing and near record daily catches, the fishery was extended one day. The final catch for this week was $\sim 3,300$ fish, 600 fish above the guideline. It appeared that the run may have peaked this week. U.S. District 108 catches dropped significantly with only 1,800 taken as a result of the reduced fishing zone and a major reduction in the effort which had dropped from 100 boats in week 24 to 35 boats in week 25. In addition, the US management emphasis shifted from Chinook to sockeye salmon this week and the fleet was using primarily sockeye salmon gear. Sockeye salmon catches in District 108 were below average, whereas the catches in District 106, which opened this week, were above average. This observation indicated that the run was probably late.

The fishery was posted for three days in week 26 with a weekly guideline of ~3,000 large Chinook salmon. The guideline harvest was based on run timing adjusted approximately one week late as indicated by the Kakwan Point CPUE. The management regime remained focused on Chinook salmon harvests, notwithstanding that typically the Canadian sockeye salmon fishery starts in week 26. The fishery was extended one day after two days of fishing. The Chinook salmon model indicated the run to be $\sim 75,000$, while the mark-recapture estimate was $\sim 81,000$. The final catch for this week of 3,200 large Chinook salmon was close to the weekly guideline. Sockeye salmon catches were low for the first three days of the opening but showed an improvement in day four. The total sockeye salmon catch for the week was 650 fish. The majority of the fishers used Chinook salmon gear this week. No further extensions were granted. District 108 sockeye salmon catches improved and were slightly above average although District 106 catches were below average. The preseason forecast of a record run of $\sim 500,000$ sockeye salmon was in doubt based on early indictors.

Management emphasis switched to sockeye salmon in week 27. The fishery was initially posted for five days with a guideline catch of Tahltan Lake sockeye salmon of 11,500 fish. After three days of fishing it was decided to extend the opening to six days. The total catch for the week included $\sim 12,200$ Tahltan Lake sockeye salmon. The catch of Tuya bound fish was minor and not of any consequence in management decisions this week nor in subsequent weeks. The SMM, based on commercial CPUE, indicated a total Tahltan Lake sockeye salmon run of $\sim 106,000$; this was below the preseason expectation of $\sim 400,000$ fish, but still above average. The SMM based on the test fishery catches indicated a run of $\sim 130,000$ fish. A third method of projecting run size, using regression analyses independent of the SMM, indicated that the run was close to 153,000 sockeye salmon. As projected in the preseason estimates, the Tuya run was very weak. The

Chinook salmon catch was $\sim 2,100$ fish, slightly above the weekly guideline of 2,000 large Chinook salmon. The U.S. reported poor sockeye salmon catches in Districts 106 and 108 this week.

In week 28, the fishery was only posted for a three-day initial opening based on the poor catches reported in U.S. District 108 during week 26. However, the model and markcapture estimate indicated an above average run. Using the model estimate, the guideline catch was $\sim 16,000$ sockeye salmon. The CPUE during the early part of the opening was below average, but improved as the week progressed. Subsequently, the fishery was extended in two, two-day announcements increasing the total weekly opening to seven days. The total catch of Tahltan Lake sockeye salmon was $\sim 13,800$ fish. Although management emphasis remained trained on Tahltan abundance, the catch of mainstem fish was $\sim 1,700$ and the CPUE of mainstem fish was below average as was the mainstem run estimate of $\sim 48,000$ fish. The catch of large Chinook salmon was $\sim 1,400$ fish, slightly above the weekly guideline. U.S. District 108 catches improved this week and were well above average. District 106 CPUE, however, was below average.

The fishery was posted for three days for week 29 with an initial guideline harvest of $\sim 13,000$ Tahltan sockeye salmon. The CPUE was well above average for the first two days of the opening and updated SMM outputs resulted in the TAC increasing to close to 30,000 Tahltan Lake fish. The mark-capture estimate generated concurrently with the SMM also indicated a major increase in sockeye salmon abundance. As a result, the fishery was extended in two, two-day announcements. The total catch of Tahltan Lake sockeye salmon after seven days of fishing was $\sim 15,000$ fish. The contribution of mainstem stock to the catch was estimated at 3,000 fish. The run size projection of mainstem fish remained below average this week. It was assumed that, similar to the Tahltan run, the mainstem run timing was at least one week late which, if true, would boost the run size projection. The catches of Tahltan Lake sockeye salmon remained above average in District 108. A relatively high number of thermally marked Tahltan fish were present in the fishery last week and it was, therefore, assumed that the presence of Tahltan Lake fish would persist this week. The US extended their fishery two days in District 108 this week.

The fishery was posted for three days for week 30 with an initial guideline catch of ~27,000 Tahltan Lake sockeye salmon. The mainstem TAC, however, indicated that catches to date exceeded the allowed cumulative TAC. Management emphasis, however, remained focused on Tahltan Lake sockeye salmon abundance and the fishery was extended one day and then three days due to the unusually high number of Tahltan Lake sockeye salmon in the fishery and the assumption that the mainstem run was late in arriving. The CPUE of Tahltan Lake sockeye salmon was above average for the first four days of the opening, but dropped to below average in days six and seven. The CPUE of mainstem sockeye salmon was approximately half the average. The total catch after a seven day fishery was $\sim 9,000$ Tahltan Lake sockeye salmon and $\sim 4,100$ mainstem fish. The Tahltan Lake weir count projection this week was $\sim 39,000$ fish. Surprisingly, catches in the Aboriginal fishery were only average. The weir count and both the SMM and the mark-recapture projections indicated that the Tahltan Lake run was above average. The
mark-recapture estimate also showed the inriver run of mainstem fish was close to double the inriver run projection of mainstem as indicated by the SMM. The US catches in both Districts 106 and 108 were slightly above average. Tahltan bound sockeye salmon remained prevalent in the US fishery, which was very unusual for this week; normally the Tahltan Lake run would have already passed through the fishery by this time.

The fishery was posted for three days for week 31. Tahltan Lake sockeye salmon remained in the fishery in unusually high numbers with the CPUE of this stock more than twice the average. The CPUE of mainstem fish improved slightly, but was still below average. The fishery was extended one day to harvest primarily the surplus Tahltan Lake sockeye salmon available. The total weekly catch was $\sim 5,500$ Tahltan, and $\sim 2,700$ mainstem fish. According to the SMM, the Canadian cumulative catch of the mainstem stock was $\sim 18,000$ fish, whereas the estimated US catch of this stock totaled $\sim 30,000$ fish. These estimates seemed unrealistically high given the SMM inriver projection of mainstem fish was only $\sim 12,000$ fish. The implied overall harvest rate on the mainstem stock grouping was at least $80 \%$ not including projections of catches yet to occur. Since mainstem projections derived from the SMM seemed unreasonable, attention had gravitated more towards the inriver mark-recapture estimates which indicated a mainstem inriver run size of $\sim 35,000$. The projected Tahltan weir count was $\sim 28,000$ fish. Again, it was assumed that the mainstem run was late and that the bulk of the mainstem run was in transit. The CPUE in both US Districts 106 and 108 was above average that bolstered the assumption that the mainstem run was late.

The fishery was posted for three days for week 32. As was observed in week 31, Tahltan Lake sockeye salmon remained in the fishery in unusually high numbers. The CPUE of Tahltan sockeye salmon was almost seven times average. The CPUE of mainstem fish was approximately $30 \%$ above average and the mark-recapture estimate generated after two days of fishing showed that the inriver run projection of mainstem fish increased by $\sim 20,000$ fish, to $\sim 56,000$ mainstem sockeye salmon. Consequently, the fishery was extended one day. The total weekly catch was $\sim 3,400$ Tahltan and $\sim 1,700$ mainstem fish. It became apparent that the mainstem run was indeed late due to the increase in CPUE from that observed in week 31, when on average the mainstem run peaked. Both US Districts 106 and 108 had an above average CPUE that supported the assumption that the mainstem run was late.

The fishery was posted for three days for week 33. The CPUE of mainstem fish was over three times average. The inriver mark-recapture estimate held at $\sim 50,000$ mainstem sockeye salmon. As a result, and in concert with a major reduction in the number of fishers present, the fishery remained opened for the remainder of the season. No fishing occurred after the 13 August even though the CPUE was well above the seasonal average. The projected Tahltan weir count was $\sim 35,000$ fish and the projected escapement of mainstem fish was estimated at $\sim 30,000$ sockeye salmon.

The new Stikine River Chinook salmon fishery was prosecuted with relative success. The escapement goal was met, in fact exceeded, and the harvest was close to the negotiated catch share. Inseason management was challenging particularly with respect
to managing to weekly harvest guideline catches particularly during the latter part of the Chinook salmon run when the Canadian fleet was targeting the early component of the sockeye salmon run. In the U.S., problems were encountered in limiting catches to weekly guidelines, due primarily to the difficulty in projecting effort/boats fishing District 108.

In general, both Tahltan Lake and mainstem sockeye salmon entered the lower Stikine commercial fishing grounds later than normal when compared with the average. The Tahltan Lake run did not show a distinct peak in week 28 in the lower Stikine as it normally does. Rather, the peak occurred from week 27 through to week 29. The mainstem run peaked during weeks 32 and 33, up to two weeks later than average.

There was no terminal fishery on Tuya River sockeye salmon in 2005. The season was assigned to experimental operations only. A floating fish ladder/trap was installed and fished from mid-July to late August. The catch of the few returning Tuya sockeye salmon was minor. The experiment in 2005 provided valuable recommendation for the redesign of the fish trap for the 2006 season.

Out of 18 licenses available for the lower river commercial fishery, 12 licenses were issued in 2005 with a maximum of 12 licenses being active in any one week (Appendix A.10). The total effort was 803 permit-days, well above average largely due to the prosecution of the new Chinook salmon fishery. Gear was restricted to one drift or set gill net up to and including week 23. Fishers were permitted two nets for the balance of the fishery. After week 23, the commercial fishing zone was extended upstream approximately 25 km upstream from the standard upper boundary, located at the mouth of the Porcupine River, to the confluence of the Flood and Stikine rivers. This extension encompassed the fishing zone fished in 1997-2000 and 2004.

## Upper Stikine River Commercial Fishery

A small commercial fishery has existed near Telegraph Creek on the upper Stikine River since 1975. A total of 60 sockeye salmon was caught in 2005, which was average. One jack Chinook salmon and 28 large Chinook salmon were harvested which were also both below average. The fishing effort was also below average with only 13 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 800 large Chinook, 94 jack Chinook, and 5,333 sockeye salmon (Appendix A. 13 and B.15). The harvest of large Chinook salmon was close to average, while the jack salmon harvest was below average. The catch of sockeye salmon was slightly below average. As in 2004, sockeye salmon were up to two weeks late arriving to the fishing grounds. It appears that the run was relatively protracted and did not exhibit a distinct peak in week

29 as is the normal pattern. Chinook salmon catches were only average due to the unusually high water conditions that occurred during the Chinook salmon run.

## 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 2005 catches of 118 large and 25 jack Chinook salmon were below the averages. Effort too was characterized as below average. The 2005 sport fishery that occurs, in general, during the month of July and early August, was subject to unusually high water levels in both the Stikine and Tahltan rivers.

## Escapement

## Sockeye Salmon

A total of 43,446 sockeye salmon was counted through the Tahltan Lake weir in 2005. The count was above average and was the eleventh highest count since the enumeration of Tahltan sockeye salmon commenced in 1959. The count was $\sim 13,000$ fish above the upper end of the escapement goal range of $18,000-30,000$ fish, and $\sim 23,000$ above the, escapement point target of 24,000 sockeye salmon. An estimated 18,005 fish ( $41 \%$ ) originated from the fry-planting program, which is close to the $44 \%$ contribution of smolts observed in 2002, the principal cycle year contributing to the 2005 run. A total of 400 sockeye salmon was sacrificed at the weir for stock composition analysis. In addition, a total of 3,424 sockeye salmon was collected for broodstock, resulting in a spawning escapement of 39,622 sockeye salmon (Table 3).

The spawning escapements for the mainstem and the Tuya stock groups are estimated indirectly by computing the ratio of Tahltan to the mainstem and Tuya components in the total inriver sockeye salmon run. Stock identification data are collected in the lower river commercial and test fisheries. The ratios of Tahltan-to-mainstem and Tahltan-to-Tuya are applied to the estimated inriver Tahltan run size to develop an estimate of the total inriver sockeye salmon run. The escapements for Tuya and mainstem sockeye salmon stocks are estimated by subtracting the stock- specific inriver catches from the respective inriver run estimates.

The 2005 preliminary escapement estimates are 34,788 mainstem and 1,796 Tuya sockeye salmon. The mainstem sockeye salmon stocks spawn in tributaries and lakes other than Tahltan Lake, and in the mainstem and side sloughs of the Stikine River. The mainstem spawning escapement estimate is below average but is close to the mid-point of the escapement goal range of 20,000 to 40,000 fish. Aerial survey results were well below average with a count of only 558 fish. The Tuya River sockeye salmon are blocked from accessing potential spawning grounds of Tuya Lake by natural barriers located near the mouth of river. In most years, sockeye salmon are fished below these barriers under the authority of a terminal fishery license. There was no terminal fishery mounted in

2005; instead a field experiment occurred with the operation of a new floating fish ladder and trap designed, manufactured, and installed under the auspices of the Tuya Steering Committee and funded through the Northern Fund of the PSC. Trap catches were minor in scale. Staff also netted 143 sockeye salmon for sampling purposes and for fish marketing assessments. The field component of a research study, funded in 2004 under the Northern Fund of the PSC to investigate the behavior of Tuya River sockeye salmon, was completed in the spring of 2005. The final report is due in January 2005.

For the sixth consecutive year, a sockeye salmon mark-recapture program was conducted to develop an alternate abundance-based management regime for Stikine River sockeye salmon. The inriver run estimate using a Peterson estimate (marked=1,775, recovered $=841$, catch $=79,552$ ) is 165,920 (SE 3,921) and using a Darroch is 167,551 fish (SE 7,382, $95 \%$ CI 153,083-182,019). These are close to the final inseason SMM of 173,300 and the postseason estimate of 167,572 sockeye salmon.

## Chinook Salmon

The 2005 Chinook salmon escapement enumerated at the Little Tahltan weir was 7,387 large fish and 231 jack Chinook salmon (Appendix A.19). The escapement of large Chinook salmon in the Little Tahltan River was above average and well above the midpoint escapement goal of 4,000 large Chinook salmon (escapement goal range: 2,700 to 5,300 ). The aerial count of 231 in Beatty Creek was above average. The peak aerial survey count at Andrew Creek was 1,700 fish, the second highest on record and above escapement goal range of 650-1,500 fish.

A mark-recapture study was conducted again in 2005 concurrent with the SCMM to assess the inriver Chinook salmon abundance. Mark-capture estimates were calculated after week 23 (week ending June 04). The system-wide spawning escapement estimate is 41,979 large Chinook salmon which is above average. The escapement to the Little Tahltan River represented approximately $17 \%$ of the total Stikine River escapement, which is below average.

## Coho Salmon

Aerial surveys of eight index sites were conducted on 03 November. The combined count of 3,200 coho salmon, under relatively good viewing conditions, was below average.

A coho salmon test fishery was conducted from the September 03 to October 15. Utilizing a standard drift gillnet ( 33 metre by 30 mesh by 9 cm mesh size) fishing a specific site, the test fishery cumulative weekly CPUE index was 6.6 coho salmon, which was above average and was fourth highest on record. No comparisons are available with the sockeye salmon test fishery in 2005. The sockeye salmon test fishery was conducted only sporadically in 2005 due to the protracted commercial fishery openings. In past studies, the relative inriver run size of coho salmon was calculated based on the sockeye salmon CPUE and the associated inriver abundance estimate. The general assumptions in the calculation were the test fish CPUE was correlated with inriver run size and that the
coho salmon test fishery efficiency was similar to that of the sockeye salmon test fishing efficiency.

## Sockeye Salmon Run Reconstruction

The estimated terminal Stikine River sockeye salmon run size is approximately 260,000 fish. Of this number, approximately 175,000 were of Tahltan Lake origin (wild \& planted), 3,300 were of Tuya origin (fry from Tahltan broodstock planted into Tuya Lake), and 82,000 were mainstem stocks (Table 3). These estimates are based on data including: otolith recovery 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. The 2005 total run was well above average, but well below the preseason forecast of 477,000 fish.

## TAKU RIVER

Taku River salmon are harvested in the U.S. gillnet fishery in the Alaskan District 111, in northern Southeast Alaska seine and troll fisheries, and in the Juneau area sport fishery and 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. The arrangements that are expected to apply to the Taku River for the 1999 to 2008 period are as follows:
(1) Sockeye salmon:
(i) Except as noted below, Canada shall harvest no more than $18 \%$ of the TAC of the wild sockeye salmon originating in the Canadian portion of the Taku River each year;
(ii) If the projected inriver escapement is greater than 100,000 sockeye salmon, Canada may, in addition, harvest $20 \%$ of the projected inriver escapement above 100,000 sockeye salmon;
(iii) The Parties agree to manage the runs of Taku River sockeye salmon to ensure that each country obtains catches in their existing fisheries equivalent to each country's share of wild sockeye salmon and a $50 \%$ share of fish originating from Taku River fry plants;
(iv) The Parties agree to continue the existing joint Taku River enhancement program designed to produce annually 100,000 sockeye salmon run.
(2) Coho salmon:
(i) The Parties agree to develop and implement an abundance-based approach to managing coho salmon on the Taku River no later than May 1, 2004. The Parties commit to developing a revised MSY escapement goal to be implemented no later than May 1, 2004.
(ii) Until a new abundance-based approach is developed, the management intent of the United States is to ensure a minimum above-border inriver run of 38,000 coho salmon, and the following arrangements will apply:
a. no numerical limit on the Taku River coho salmon catch will apply in Canada during the directed sockeye salmon fishery (through week 33);
b. if inseason projections of above-border run size are less than 50,000 coho salmon, a directed Canadian harvest of up to 3,000 coho salmon is allowed for assessment purposes as part of the joint Canada/US Taku River mark-recapture program;
c. if inseason projections of above-border run size exceed 50,000 coho salmon, a directed Canadian harvest of 5,000 coho salmon is allowed;
d. if inseason projections of above-border run size exceed 60,000 coho salmon, a directed Canadian harvest of 7,500 coho salmon is allowed;
e. if inseason projections of above border run size exceed 75,000 coho salmon, a directed Canadian harvest of 10,000 coho salmon is allowed.
(3) Chinook salmon:
(i) This agreement shall apply in 2005 through 2008.
(ii) This agreement shall apply to large (greater than 659 mm mid-eye to fork length) Chinook salmon originating in the Taku River.
(iii) Both Parties shall take the appropriate management action to ensure that the necessary escapement goals for Chinook salmon bound for the Canadian portions of the Taku River are achieved. The Parties agree to share in the burden of conservation. Fishing arrangements must take biodiversity and eco-system requirements into account.
(iv) Consistent with paragraph 2 above, management of directed fisheries will be abundance-based through an approach developed by the Committee. The Parties agree to implement assessment programs in support of the abundance-based management regime.
(v) Unless otherwise agreed, directed fisheries on Taku River Chinook salmon will occur only in the Taku River drainage in Canada, and in District 111 in the U.S.
(vi) Management of Taku River Chinook salmon will take into account the conservation of specific stocks or conservation units when planning and prosecuting their respective fisheries. To avoid over-harvesting of specific components of the run, weekly guideline harvests will be developed by the Parties by apportioning their allowable harvest over the total Chinook salmon season based on historical weekly run timing.
(vii) By 2008, the Parties agree to develop and implement through the Committee an agreed Chinook salmon stock identification program to assist the management of Taku Chinook salmon.
(viii) The current MSY escapement goal point estimate ( $\mathrm{N}_{\text {MSY }}$ ) for above-border Taku River Chinook salmon is 36,000 fish (greater than 659 mm mid-eye to fork length) with a range of 30,000 to 55,000 fish. This goal is subject to periodic review by the Parties.
(ix) A preseason forecast of the Taku River Chinook salmon terminal run size will be made by the Committee by February 1 of each year.
(x) In 2005 and 2006, directed fisheries may be implemented based on preseason forecasts only if the preseason forecast terminal run size equals or exceeds the upper end of the MSY escapement goal range plus the combined Canada, U.S. and test fishery base level catches (BLCs) of Taku River Chinook salmon. The preseason forecast will only be used for management until inseason projections become available.
(xi) For the purposes of determining whether to allow directed fisheries using inseason information in 2005 and 2006, such fisheries will not be implemented unless the projected terminal run size exceeds the mid-point of the escapement goal range plus the combined Canada, U.S. and test fishery BLCs of Taku River Chinook salmon. The Committee shall determine when inseason projections can be used for management purposes and shall establish the methodology for inseason projections and update them weekly or at other agreed intervals.
(xii) If escapements in 2005 and 2006 are less than the escapement goal point estimate ( $\mathrm{N}_{\text {MSY }}$ ), the Parties agree to review the 2005 and 2006 directed fisheries and implement additional precautionary management measures intended to achieve the escapement goal point estimate ( $\mathrm{N}_{\text {MSY }}$ ) in 2007 and 2008.
(xiii) In 2007 and 2008, directed fisheries may be implemented based on preseason forecasts only if the preseason forecast terminal run size equals or exceeds the escapement goal point estimate ( $\mathrm{N}_{\mathrm{MSY}}$ ) plus the combined Canada, U.S. and test fishery base level catches (BLCs) of Taku River Chinook salmon. The preseason forecast will only be used for management until inseason projections become available.
(xiv) For the purposes of determining whether to allow directed fisheries using inseason information in 2007 and 2008, such fisheries will not be implemented unless the projected terminal run size exceeds the escapement goal point estimate ( $\mathrm{N}_{\mathrm{MSY}}$ ) plus the combined Canada, U.S. and test fishery BLCs of Taku River Chinook salmon. The Committee shall determine when inseason projections can be used for management purposes and shall establish the methodology for inseason projections and update them weekly or at other agreed intervals.
(xv) The allowable catch (AC) is calculated as follows:
[Base terminal run (BTR) $=$ escapement target + test fishery BLC + U.S. BLC + Cdn BLC]
[Terminal run - $(\mathrm{BTR})=\mathrm{AC}]$
(xvi) BLCs include the following:
a. U.S. Taku BLC: 3,500 large Chinook salmon
b. Canadian Taku BLC: 1,500 large Chinook salmon
c. Test fishery: 1,400 large Chinook salmon;
(xvii) Harvest sharing and accounting of the AC shall be as follows:

| Allowable Catch Range |  | Allowable Catch Share |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | U.S. |  | Canada |  |
| Lower | Upper | Lower | Upper | Lower | Upper |
| 0 | 5,000 | 0 | 0 | 0 | 5,000 |
| 5,001 | 20,000 | 1 | 11,000 | 5,000 | 9,000 |
| 20,001 | 30,000 | 11,001 | 17,500 | 9,000 | 12,500 |
| 30,001 | 50,000 | 17,501 | 30,500 | 12,500 | 19,500 |
| 50,001 | 100,000 | 30,501 | 63,000 | 19,500 | 37,000 |

Within each Allowable Catch Range, each Party's Allowable Catch Share will be calculated proportional to where the AC occurs within the range.
(xviii) The U.S. catch of the Taku Chinook salmon AC will not count towards the SEAK AABM allocation. In particular:
a. non-Taku Treaty Chinook salmon harvested in District 111 will continue to count toward the SEAK AABM harvest limit;
b. the U.S. BLC of Taku Chinook salmon in District 111 will count toward the SEAK AABM harvest limit;
c. the U.S. catch of Taku Chinook salmon in District 111 above the U.S. BLC will not count towards the SEAK AABM allocation.

Accounting for the SEAK AABM Chinook salmon catches as pertains to transboundary rivers harvests will continue to be the responsibility of the Chinook Technical Committee as modified by (a) through (c) above.
(xix) The Parties shall determine the domestic allocation of their respective harvest shares.
(xx) When the terminal run is insufficient to provide for the Party's Taku Chinook salmon BLC and the lower end of the escapement goal range, the reductions in each Party's base level fisheries, i.e. the fisheries that contributed to the BLCs, will be proportionate to the Taku Chinook salmon BLC shares, excluding the test fishery.
(xxi) When the escapement of Taku River Chinook salmon is below the lower bound of the agreed escapement range for three consecutive years, the Parties will examine the management of base level fisheries and any other fishery which harvests Taku River Chinook salmon stocks, with a view to rebuilding the escapement.

## U.S. Fisheries

The traditional District 111 commercial drift gillnet salmon fishery, including the new directed Chinook salmon fishery, was open for a total of 68 days from May 2, through October 5, 2005 (Appendix B.1). The harvest included 21,999 large Chinook, 1,311 jack Chinook, 87,254 sockeye, 20,725 coho salmon, 181,513 pink, and 93,210 chum salmon. Harvests of Chinook and pink salmon were above average, and the harvest of sockeye, coho salmon, and chum salmon were below average. Weekly commercial fishery harvests and stock composition estimates for these fisheries are provided in Appendices B.1-B.3.

Hatchery stocks contributed significantly to the numbers of both sockeye and chum salmon harvested, and minor numbers to the harvest of other species. The 2005 season was the sixth year of significant numbers of adult sockeye salmon returning to the Snettisham Hatchery inside Port Snettisham. These fish contributed significantly to the harvests primarily in Stephens Passage and to the Speel Arm Terminal Harvest Area (THA) fishery inside Port Snettisham.

The total traditional drift gillnet Chinook salmon harvest in District 111 in 2005 was 23,310 fish. The total number of Chinook salmon caught in the new directed Chinook
salmon fishery between weeks 19 and 28 totaled 23,023 fish. Of these, an estimated 21,722 were large fish. After subtracting out the Alaska and non-Alaska hatchery component, 20,911 fish were counted against the US AC. The Chinook salmon harvest after week 28 was 287 fish. As estimated by coded wire tag (CWT) analysis, Alaskan hatchery Chinook salmon contributed a total of 811 fish to the directed Chinook salmon fishery, for approximately $4 \%$ of the harvest. Overall, Alaska hatcheries contributed approximately 815 fish, or $4 \%$ of the total 2005 District 111 Chinook salmon harvest. Alaskan hatchery Chinook salmon do not count towards the US AC for the directed Chinook salmon fishery.

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 indicated a spawning escapement of 38,806 large Chinook salmon, near the midpoint of the escapement goal range of 42,500 large Chinook salmon.

The traditional District 111 sockeye salmon harvest of 87,254 fish was approximately half of the average (Appendix B.1). Weekly sockeye salmon harvests in District 111 were below average in weeks $26-31$ and 39 . Weekly sockeye salmon harvests were above average during weeks 32-38. Weekly sockeye salmon CPUE was below average in weeks 26-31 and above average for weeks 32-40. Domestic hatchery sockeye salmon stocks began to contribute to the traditional fishery in week 27 and added significant numbers to the harvests in weeks $30-33$. Fishermen 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, 19\% occurred in Stephens Passage, less than the average of $25 \%$. Of the total sockeye salmon harvest 45,468 were of Taku River origin (including 627 from the Tatsamenie fry planting program, Table 4), 10,189 of wild Port Snettisham origin, and 15,183 of US domestic hatchery origin. These were predominately Port Snettisham hatchery sockeye salmon but also included a small number of thermally marked fish from a fry-planting program at Sweetheart Lake in Port Snettisham. An additional 18,781 sockeye salmon were harvested in the Speel Arm THA fishery inside Port Snettisham. The majority of these fish are from hatchery releases but a small portion of wild Speel Lake sockeye salmon stocks are also taken in this fishery.

The traditional District 111 chum salmon harvest of 93,210 fish was below average (Appendix B.1). The summer chum salmon harvest of 89,757 fish comprised $96 \%$ of the season's chum salmon harvest. 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 59\% of the total traditional District 111 chum salmon harvest was made in Taku Inlet, 36\% in Stephens Passage, and 3\% inside Port Snettisham. The harvest of 3,453 fall chum salmon, week 34 and later, was below average. Most of these chum salmon are assumed to be wild fish of Taku and Whiting Rivers origin.

Table 4. Taku sockeye run reconstruction, 2005.

|  | Taku Stocks |  |  | Snettisham Stocks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Wild | Planted | Total | Wild | Hatchery |
| Escapement | 120,053 | 119,795 | 258 |  |  |  |
| Canadian Harvest |  |  |  |  |  |  |
| Commercial | 21,697 | 21,440 | 257 |  |  |  |
| Food Fishery | 161 | 159 | 2 |  |  |  |
| Total | 21,858 | 21,599 | 259 |  |  |  |
| Test Fishery Catch | 244 | 241 | 3 |  |  |  |
| Above Border Run | 142,155 | 141,636 | 519 |  |  |  |
| U.S. Harvest a |  |  |  |  |  |  |
| District 111 | 45,468 | 44,841 | 627 | 26,002 | 10,189 | 15,813 |
| Personal Use | 1,150 | 1,136 | 14 |  |  |  |
| Total | 46,618 | 45,977 | 641 |  |  |  |
| Test Fishery Catch | 0 |  |  |  |  |  |
| Total Run | 188,773 | 187,613 | 1,160 |  |  |  |
| Taku Harvest Plan | Total | Wild | Planted |  |  |  |
| Escapement Goal | 75,000 | 75,000 | 0 |  |  |  |
| TAC | 113,773 | 112,613 | 1,160 |  |  |  |
| Canada |  |  |  |  |  |  |
| Base Allowable | 20,850 | 20,270 | 580 |  |  |  |
| Surplus Allowable | 4,011 | 4,011 |  |  |  |  |
| Total | 24,861 | 21,281 | 580 |  |  |  |
| Total \% | 21.9\% | 21.6\% | 50.0\% |  |  |  |
| Actual | 21,858 | 21,599 | 259 |  |  |  |
| Actual \% | 19.2\% | 19.2\% | 22.3\% |  |  |  |
| U.S. |  |  |  |  |  |  |
| Total | 92,923 | 92,343 | 580 |  |  |  |
| Total \% | 81.7\% | 82.0\% | 50.0\% |  |  |  |
| Actual | 46,618 | 45,977 | 641 |  |  |  |
| Actual \% | 41.0\% | 40.8\% | 55.2\% |  |  |  |

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

The District 111 pink salmon harvest of 181,513 fish was twice the average (Appendix B.1).

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 20,725 fish was below average (Appendix B.1). Weekly coho salmon harvests were below average during all weeks but weeks 26 and 40 . Coho salmon CPUE was above average during weeks 26-28, 30-31, and 40. CWT analyses indicate Alaskan hatchery coho salmon contributed 463
fish or $2 \%$ of the traditional District 111 harvest. For most of the season, weekly estimates of Taku River coho salmon abundance indicated a below average run size.

For the 2005 season, drift gillnet fishing time in the traditional District 111 areas during the new directed Chinook salmon fishery during weeks 19-25 was 20 days. During weeks $26-41$, drift gillnet fishing time was $90 \%$ of average. The maximum number of boats participating in the fishery in a given week was 86 boats during week 23 in the directed Chinook salmon fishery, and 84 boats during week 33 during the remainder of the season (Appendix B.1). Fishing effort as measured by the total number of boats delivering fish each week times the number of days open to fishing was 1,387 boat-days for the directed Chinook salmon fishery, and 2,040 boat-days for the remainder of the season, which was below average.

Management actions for the 2005 drift gillnet directed Chinook salmon fishery were limited to time restrictions as the open area remained the same throughout the fishery. The open area includes the Taku Inlet area of Section 11-B north of the latitude of Cove Point and the area east of a line from Cove Point to Point Bishop. The US Allowed Catch (AC) was determined by a Pacific Salmon Commission bilaterally agreed on formula based, during the early season, on the pre-season Chinook salmon run forecast and revised inseason based on the inseason run projection estimate generated from the Canyon Island mark-recapture program. The AC applied only to large Taku River origin Chinook salmon, fish over 28 inches in length ( 660 mm MEF). The US allowed catch was shared between gillnet, troll and sport fisheries, with no set allocation for each user group. The new regulations allow gillnetting May 1, through the third Sunday in June. This season the Taku drift gillnet directed Chinook salmon fishery occurred between weeks 19 and 28 (May 2 to July 6) although management emphasis shifted to sockeye salmon after week 25 . The initial US AC was set at 22,850 large Chinook salmon, based on a preseason terminal run forecast of 99,600 large Chinook salmon. On May 26, week 22, the first U.S. inseason projection of 101,116 was announced. Using the inseason projection, the management objective switched from the upper end of the escapement goal range $(55,000)$ to the midpoint of the escapement goal range $(42,500)$ for large Chinook salmon. Thus, the revised allowable catch for U.S. and Canada was 52,216 Chinook salmon, of which the U.S. allowed harvest was 31,940 fish, and Canada allowed harvest was 20,276 fish. Weekly management decisions were based on Canyon Island fish wheel catches, run timing, fishery performance, and available AC. The lack of recent historic data did not allow for comparison with past fisheries.

In week 19 the fishery was open for two days, and 47 boats landed 1,243 Chinook salmon, of which 981 were large Taku River origin fish. Week 20 was open for 3 days with 64 boats landing 1,844 Chinook salmon, of which 1,617 were large Taku origin fish. Week 21 was open for 3 days with 73 boats landing 4,399 Chinook salmon, of which 3,952 fish were large Taku River origin fish. Week 22 was open for 4 days with 80 boats landing 5,364 Chinook salmon, of which 4,514 fish were large Taku River origin fish. The first bi-laterally agreed upon inseason estimate was generated in week 22, and with indications that the run was somewhat delayed, the projected $1 / 2$ week late 101,000 fish terminal run compared favorably with the 99,600 preseason projection. Being past the peak of the run, week 23 was open for 3 days with 86 boats landing 4,313 Chinook
salmon, of which 3,483 fish were large Taku origin fish. In week 24, the inseason estimate projected an escapement of approximately 42,500 large Chinook salmon, the targeted midpoint of the escapement goal range, and the fishery was open for 3 days with 70 boats landing 3,028 Chinook salmon, of which 2,375 fish were large Taku origin fish. The fishery was open for two days in week 25 due to the increasing contributions of the smaller Taku tributary stocks as well as being past the period of peak abundance, and 47 boats landed 1,466 Chinook salmon, of which 1,286 were large Taku origin fish. The total harvest of Chinook salmon taken in the District 111 drift gillnet fishery during the directed Chinook salmon fishery (weeks 19-25) was 21,657 fish. The total all gear harvest of Taku origin large Chinook salmon taken during the directed Chinook salmon fishery in District 111 was 21,024 fish, including a commercial drift gillnet harvest of 18,098 fish, a commercial troll harvest of 21 fish, and the Juneau area sport harvest of 2,905 fish.

Management actions to conduct the Taku River directed sockeye salmon drift gillnet fishery were limited to imposing restrictions in time and area. Because there is no bilaterally agreed forecast for Taku River sockeye salmon, early season management of the District 111 fishery is based on fishery CPUE and Canyon Island fish wheel catches. As the fishing season progresses sufficient data is acquired to estimate the inriver run size from the 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 26, which began June 19, three days of fishing time were allowed in both Taku Inlet (Subdistrict 111-32) and Stephens Passage (Subdistrict 111-31). The traditional District 111 sockeye salmon harvest in the first week was roughly $1 / 3$ of average. During week 26, the projected inriver run was estimated to be 70,077 sockeye salmon (Table 5), and fishing time for week 27 was set for three days. The traditional District 111 sockeye salmon harvest in week 27 was roughly $1 / 4$ of average. Both Taku Inlet and Stephens Passage were opened for three days in week 28. The traditional District 111 sockeye salmon harvest for the week was again roughly $1 / 3$ of average. Approximately $95 \%$ of the sockeye salmon harvested during the week came from Taku Inlet, while the remainder was harvested in Stephens Passage. Due to low CPUE and uncertain inriver estimates, Taku Inlet was open for two days, with Stephens Passage open for three days during week 29 to target returning Alaska hatchery chum salmon. The traditional District 111 harvest of 5,428 sockeye salmon was $1 / 5$ of average with $65 \%$ of the harvest occurring in Taku Inlet.

During week 30, Taku Inlet north of the latitude of Circle Point was open for two days due to poor fishery CPUE with improving inriver indicators. Although quite variable, the projected inriver estimates indicated the 75,000 above border sockeye salmon escapement should be met. Stephens Passage was opened for three days. The traditional District 111 sockeye salmon harvest was $1 / 3$ of average with $55 \%$ of the harvest taken in Taku Inlet. Analysis of otoliths revealed that $45 \%$ ( 71 of 157) of the samples processed from Stephens Passage during this week were Snettisham hatchery sockeye salmon.

During week 31 Taku Inlet north of the latitude of Circle Point was again open for two days due to low harvests and CPUE as well as uncertainty about the inriver estimates. Stephens Passage was open for three days. The traditional District 111 sockeye salmon
harvest of 8,074 fish was $1 / 3$ of average for the week, with $73 \%$ of the harvest in Taku Inlet. Analysis of otoliths revealed that $51 \%$ (119 of 235) of the samples processed from Stephens Passage during this week were Snettisham hatchery sockeye salmon. The traditional District 111 coho salmon harvest was 858 fish for the week, $2 / 3$ of average (Appendix B.1).

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 2005.

| Stat | Inriver <br> Run | Terminal <br> Run | Total <br> TAC | U.S. <br> TAC | Projected <br> U.S. Catch |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 27 | 141,620 | 163,349 | 88,349 | 72,446 | 21,729 |
| 28 | 102,405 | 127,996 | 52,996 | 41,758 | 25,591 |
| 29 | 83,746 | 109,097 | 31,097 | 25,244 | 22,352 |
| 30 | 111,304 | 138,808 | 63,808 | 52,111 | 27,504 |
| 31 | 129,752 | 157,355 | 82,355 | 67,251 | 27,603 |
| 32 | 137,746 | 173,846 | 98,846 | 80,809 | 36,100 |
| 33 | 134,359 | 172,814 | 97,814 | 79,708 | 38,455 |
| Postseason | 131,611 | 195,507 | 120,507 | 98,264 | 63,896 |

Terminal run does not include any marine harvest of Taku River salmon that might occur outside of District 111.

During week 32, Taku Inlet and Stephens Passage were open for three days. Inriver mark-recapture estimates indicate the PSC mandated 75,000 sockeye salmon escapement had been realized. With adequate Speel Lake weir sockeye salmon escapement, and Crescent Lake sonar counts, the entrance to Port Snettisham (Subdistrict 111-34) was opened for three days to target returning Snettisham Hatchery sockeye salmon. Section 11C (Subdistrict 111-20) was opened for three days in conjunction with Stephens Passage due to adequate pink salmon escapement in the area. The traditional District 111 drift gillnet sockeye salmon harvest of 22,769 fish was the highest of the season and $112 \%$ of average, with $30 \%$ ( 6,877 fish) harvested in Stephens Passage and Port Snettisham where the fleet was targeting hatchery sockeye salmon bound for Port Snettisham. Analysis of otoliths revealed that $67 \%$ ( 40 of 60) of the samples processed from Stephens Passage during this week were Snettisham hatchery sockeye salmon.

The week 33 traditional District 111 drift gillnet harvest of 15,516 sockeye salmon was $123 \%$ of average. Taku Inlet north of the latitude of Circle Point was open for the average of three days with below average fish wheel catches, but improving inriver escapement estimates. Stephens Passage and Port Snettisham were open for three days with adequate escapements to Speel and Crescent Lakes. Section 11C was open for 3 days. The Speel Arm THA (Subdistrict 111-33) was initially opened for three days due to adequate escapement through the Speel Lake weir. In the traditional District 111 fishing areas, $12 \%$ of the 5,650 sockeye salmon harvested in Taku Inlet, $63 \%$ of the 2,610 sockeye salmon harvested in Stephen's Passage, and $84 \%$ of the 7,256 sockeye salmon harvested inside Port Snettisham were of Port Snettisham hatchery origin. An additional 4,678 sockeye salmon were harvested in the Speel Arm THA in week 33.

The fall drift gillnet season in District 111 lasted eight weeks, beginning on August 14, week 34, and lasting until October 5, week 41. In the first week of the fall season, fishing time was set at three days in all the traditional drift gillnet areas to allow harvest of Taku River and local origin coho salmon and continued harvest of Port Snettisham hatchery sockeye salmon. The traditional District 111 sockeye salmon harvest for the week of 9,218 fish (Appendix B.1) was twice the average, with $70 \%$ of the sockeye salmon harvest taken in Stephens Passage and Port Snettisham. The week 34 traditional District 111 coho salmon harvest of 645 fish was $1 / 4$ of the average. Section 11C closed for the season at the end of the week 34 fishery. Taku Inlet, Stephens Passage, and Port Snettisham were open for three days during weeks 35-39. The traditional District 111 coho salmon harvest of 1,733 fish in week 35 was half the average, and the week 36 harvest of 3,010 fish was $60 \%$ of average. During week 37 the traditional District 111 harvest of 3,682 coho salmon was $82 \%$ of average. The week 37 traditional District 111 harvest of 699 chum salmon was $112 \%$ of average, the first week during the fall season with an above average catch. The week 38 traditional District 111 harvest of 2,850 coho salmon was $57 \%$ of average, while the harvest of 349 chum salmon was $102 \%$ of average. The Speel Arm THA was closed for the season concurrently with the rest of District 111, at the end of the week 39 fishery. The week 39 coho salmon harvest of 1,411 fish was half the average, as was the chum salmon harvest. Taku Inlet and Stephens Passage were open for three days in week 41 with less than three boats fishing. The District 111 drift gillnet fishery closed for the season on October 5.

Several other fisheries in the Juneau area harvested transboundary Taku River salmon stocks in 2005. Personal use permits were used to harvest an estimated 1,031 Taku River sockeye salmon. In 2005, an estimated 4,450 Chinook salmon were harvested by sport fisheries in the Juneau area. 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. Of the Chinook salmon harvested 2,950 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 fishery in Chatham Strait opened for one 10-hour fishery in week 28 , two 15 -hour fisheries in week 29 , and one 15 -hour fishery in week 30. Point Marsden defined the southern boundary of these fisheries while the latitude of Point Couverden defined the northern boundary. The harvests for these fisheries totaled 180 Chinook, 18,647 sockeye, 3,799 coho salmon, $1,969,000$ pink, and 137,585 chum salmon. A large number of stocks, including the Taku River, contribute to this pink salmon directed fishery. A purse seine test fishery was also conducted each week from weeks 27-30 between Hawk Inlet and Point Retreat, with harvests totaling 27 Chinook, 454 sockeye, 15 coho salmon, 11,956 pink and 3,743 chum salmon.

## Canadian Fisheries

Taku River commercial fishers harvested 21,697 sockeye, 4,924 coho salmon, 7,399 large Chinook salmon (greater than 660 mm mid-eye to fork length, mostly 3-ocean or older) and 821 small Chinook salmon in 2005 (Appendix B.4). The sockeye catch was below average. Fish originating from fry plants contributed an estimated 257 fish to the catch, comprising $1 \%$ of the total sockeye salmon harvest. The coho salmon harvest was
average. The catch of adult Chinook salmon was about four times the average. The increased catch was a result of the new Chinook salmon agreement allowing directed Chinook salmon fishing. In concert with this, catch accounting for small salmon switched from a commercial weight-based designation (previously referred to "jacks" which were typically fish under 2.5 kg or 5 kg , depending on where they were being marketed), to a length-based designation (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. There were 68 days of fishing; this was 1.6 times the average. The seasonal fishing effort of 561 boat-days was also 1.6 times the average. This increase in effort was due to the fishery commencing May 1 rather than mid-June, in order to allow directed Chinook salmon fishing. Excluding the directed Chinook salmon fishery, the number of days of fishing and boat days were $6 \%$ and $4 \%$ below average, respectively. As in recent years, both set and drift gill netting techniques were used with the majority of the catch taken in drift gillnets. Maximum allowable mesh size was increased from 15.0 cm to 20.4 cm to facilitate harvest of Chinook salmon.

In addition to the commercial catches, 212 Chinook, 161 sockeye, and 162 coho salmon were harvested in the aboriginal fishery in 2005. The average catches in the Taku aboriginal fishery have included 137 Chinook, 229 sockeye, 310 coho salmon, and two steelhead trout.

Recreational harvest figures are not available; however it is estimated that fewer than 300 adult Chinook salmon were taken and that the catches of other species were minimal.

A test fishery to capture coho salmon for stock assessment purposes took place from August 31 through October 8 (weeks 36-41) and landed 3,169 coho and 244 sockeye salmon.

The bilateral preseason Chinook salmon outlook was based on sibling relationships and forecast a terminal run of 99,610 fish, approximately $83 \%$ above the average run of approximately 54,400 fish (Canadian estimate). At a run size of this magnitude, the allowable catch (AC) for the Canadian fishery would have been 19,700 fish; the U.S. AC would have been 31,000 fish.

For the new Chinook salmon fishery and, as in past years, 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. abundancebased. The guidelines were based on current inseason forecasts of the Canadian TAC (based on mark-recapture estimates) apportioned by historical run timing.

The commercial fishery commenced on May 1 (week 19), approximately seven weeks earlier than in previous years to accommodate the newly agreed-to directed Chinook salmon fishery. As per the agreement, the preseason forecast and the escapement target of 55,000 fish were used to calculate the allowable catch and guide weekly management
actions for the first three weeks of the season, i.e. through week 21 . Thereafter, the inseason escapement target ( 42,500 fish) and inseason run projections based on the joint Canada/U.S mark-recapture project were used (Table 6). Weekly guideline harvests were calculated to guide the management of the commercial fishery; it was assumed that 500 and 300 Chinook salmon would be taken over the course of the season in Aboriginal and recreational fisheries, respectively.

The first four weekly openings were initially posted for three days. In week 19, although the weekly harvest was only 515 Chinook salmon, well below the weekly guideline (based on the pre-season forecast) of 1,658 , the fishery closed as scheduled, as both fishery and Canyon Island CPUE indicated that few Chinook salmon had entered the river.

Table 6. Canadian inseason forecasts of terminal run size, total terminal allowable catch (TTAC), and spawning escapement of Taku Chinook salmon, 2005.

| Stat <br> Week | Terminal <br> Run | TAC $^{\text {a }}$ | Projected <br> Escapement | Cdn <br> TAC | Weekly <br> Guideline $^{\text {b }}$ | Actual <br> Catch |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 19 | 99,610 | 43,210 | 55,000 | 18,550 | 1,658 | 515 |
| 20 | 99,610 | 43,210 | 55,000 | 18,550 | 2,001 | 281 |
| 21 | 99,610 | 43,210 | 55,000 | 18,550 | 3,012 | 525 |
| 22 | 84,405 | 40,505 | 58,010 | 17,850 | 2,866 | 1,255 |
| 23 | 81,687 | 37,787 | 51,619 | 16,800 | 2,431 | 1,457 |
| 24 | 71,663 | 27,763 | 39,402 | 13,300 | 1,705 | 1,371 |
| 25 | 64,805 | 20,905 | 33,727 | 10,850 | 752 | 763 |

${ }^{\mathrm{a}}$ TTAC includes Canadian and U.S. base level catches but not potential test fishery catch.
${ }^{\mathrm{b}}$ Does not include anticipated Aboriginal and recreational catches.

A total 281 large Chinook were caught in week 20. Water levels rose rapidly throughout the week. Consequently effort dropped (from nine licenses on day two to four on day three) and the fishery was not extended.

Water levels began to drop early in week 21. An extension of one day was posted due to a significant shortfall in the weekly guideline of 2,715 Chinook salmon. However, CPUE remained low, ranging from 11 fish per boat per day (fbd) on day one to 22 fbd on day four; the final weekly catch was 525 Chinook salmon.

The first bilateral inseason estimate of border escapement was made after day three in week 22 and amounted to 24,380 fish. Based on Canadian calculations this expanded to a terminal run size of 84,405 fish based on average run timing, translating to a weekly guideline harvest of 2,866 fish. An additional two days of fishing were granted, extending the opening to five days. The final harvest for the week was 1,255 fish.

A posting of four days was made for week 23. This was extended by one day based on a revised terminal run projection 51,241 fish and a balance of 1,347 fish in the weekly guideline after three days of fishing. Despite favorable fishing conditions, fishery CPUE averaged only 29 fbd and once again the weekly guideline harvest was not met.

The fishery was opened on four days in week 24 . After day three, the terminal run projection was 49,870 large Chinook salmon translating to a weekly guideline of 1,466 fish and a spawning escapement of 39,402 fish, which had now fallen below the inseason escapement target of 42,500 fish. No extension was granted. The final catch for the week was 1,371 fish.

An opening of three days was posted for week 25 , which was the final week prior to directed sockeye salmon management. After day one, the run projection was 54,126 translating to a weekly guideline of 646 fish. Since it appeared catches might exceed this guideline and the escapement projection was well below target (33,954 fish), the fishery closed as scheduled. The final catch for the week was 763 fish.

At the close of week 25 , the terminal run projection was 53,937 Chinook salmon, the cumulative commercial guideline harvest was 7,838 Chinook salmon and the escapement projection was 33,727 fish, well below the escapement goal of 42,500 Chinook salmon. The actual cumulative commercial harvest was 6,167 Chinook salmon. The cumulative commercial fishery Chinook salmon CPUE was 172 fbd. CPUE ranged from a low of 13 fbd in week 20 to a high of 34 fbd in week 24.

A final inseason estimate of inriver run size was made in week 29. In total, an estimated 42,487 Chinook salmon had entered the river, and the terminal run size was estimated at 64,665 Chinook salmon. Based on the harvest sharing agreement, at a run of this magnitude the U.S AC should have been 7,832 plus base level catches (BLC) of 3,500 fish for a total of 11,332 fish. The corresponding Canadian figures were 7,933 AC and 1,500 BLC for a total of 9,433 fish. Total harvests for the U.S. and Canada were 22,178 and 7,374 Chinook salmon, respectively.

The Canadian preseason sockeye salmon forecast was for a total run of approximately 272,000 fish (Table 7), which was the average of a sibling-based forecast (297,394 sockeye salmon) and a stock recruitment-based forecast ( 246,818 sockeye salmon). The forecast was for an average run. The total run incorporates an assumed U.S. harvest of $5 \%$ in marine approach waters (outside District 111); the terminal run forecast was therefore approximately 259,000 fish.

The sockeye salmon commercial fishery commenced on June 19, week 26, for a scheduled opening of two days. Sockeye salmon CPUE was low in both the fishery and the fish wheels, and the fishery closed as scheduled.

Week 27 was opened on three days. The cumulative guideline harvest through this week based on the preseason forecast was 6,961 fish, of which 2,015 had been taken, leaving a balance of 4,496 fish. The Tulsequah flood occurred this week, peaking on Thursday June 30. Consequently the fishery was not extended since the guideline harvest was not attainable; the total weekly catch was 1,774 fish.

The week 28 fishery opened on three days starting July 3. An inseason projection made after day one indicated a total run size of 170,051 fish and a guideline harvest balance of 5,275 fish. A revised projection on the following day however was considerably less, giving a total run estimate of 131,552 and a guideline balance of 320 fish. Nevertheless, the fishery was extended (due in part to limited confidence in these estimates given it was still early in the season) and the catch for the opening was 1,019 sockeye salmon. An estimate made after day four was similar to the day two estimate and indicated that the cumulative catch was within 400 pieces of the cumulative guideline. CPUE averaged 29 fbd, 66\% below average.

Week 29 opened on two days and closed as scheduled. Based on mark-recapture data, the run projection was 121,152 fish and the cumulative guideline harvest had been exceeded by 2,008 fish. The day one fishery CPUE was 46 fbd (compared to a weekly average of 101).

Week 30 opened on three days as fish wheel CPUE indicated a fairly strong pulse of fish into the river. The run projection after day one was 146,680 fish and there was a guideline balance of 1,849 fish. However, fishery performance on day one and day two was well below average and the fishery was closed as scheduled. A total of 1,809 sockeye salmon was caught this opening.

Table 7. Canadian inseason forecasts of total run size, total allowable catch (TAC), and spawning escapement of Taku sockeye salmon, 2005.

| Stat. <br> Week | Total Run | TAC | Projected <br> Escapement | Canadian <br> TAC | Inseason <br> guideline | Actual <br> Catch |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 25 | 272,106 | 197,106 | 75,000 | 35,479 | 2,402 | 272 |
| 26 | 272,106 | 197,106 | 75,418 | 35,479 | 5,044 | 1,252 |
| 27 | 177,700 | 102,700 | 142,160 | 26,918 | 6,666 | 3,148 |
| 28 | 119,285 | 44,285 | 82,005 | 7,971 | 2,898 | 4,317 |
| 29 | 118,892 | 43,892 | 75,146 | 7,901 | 3,812 | 6,015 |
| 30 | 164,993 | 89,993 | 116,884 | 19,576 | 11,864 | 7,868 |
| 31 | 173,642 | 98,642 | 119,247 | 21,605 | 15,452 | 11,060 |
| 32 | 183,840 | 108,840 | 124,094 | 24,410 | 20,095 | 15,152 |
| 33 | 188,849 | 113,849 | 116,454 | 23,784 | 21,365 | 17,749 |
| 34 | 188,270 | 113,270 | 111,500 | 22,689 | 21,397 | 19,846 |
| 35 | 188,165 | 113,165 | 110,105 | 22,391 | 21,770 | 21,066 |

Weeks 31-33 were all opened on three days. Extensions beyond three days were not made in part due to concern for the Tatsamenie stock. Guideline balances at the beginning of each week were 6,004 (week 31), 6,587 (week 32) and 3,333 (week 33). Harvests were $3,192,4,092$ and 2,597, respectively. Fishery CPUE increased from well below average to average in week 31, and above average in week 33.

Week 34 marked the beginning of coho salmon season. The preseason outlook was for a below average run due to poor smolt catches in the 2004 coded-wire-tagging program.

The fishery was opened on two days and extended first one day and then another due to a strong showing of sockeye salmon and low effort (five boats). Landings of sockeye and coho salmon were 2,100 and 1,010 , fish respectively.

An opening of three days was posted for week 35 . The catch of sockeye salmon again exceeded that of coho salmon ( 1,279 versus 1,019 fish). The inseason projection of coho salmon border escapement was 35,935 fish, translating to a TAC of 3,000 fish. The fishery was closed after three days to avoid exceeding the coho salmon limit.

Week 36 was opened on two days. The catch was 1,027 coho salmon for an average of 3.5 boats; the coho salmon CPUE was 146 fbd that was the highest on record. At the end of the opening the cumulative treaty catch was 3,052 coho salmon, which was 52 fish over the limit, based on the border escapement projection made at that time (46,166 fish). However, it was still relatively early in the run and there were strong indications (including the record CPUE) that the timing was later than usual; it was considered likely that the border escapement projection would increase to over 50,000 fish, bringing the TAC to at least the next level (5,000 fish). Given this and the need to keep a fishing interest on the river until a test fishery was underway, an opening of two days was posted for week 37. One boat fished and the catch was 176 coho salmon; CPUE was 88 fbd , $36 \%$ above average.

Test fishing commenced mid-way through week 37 in order to permit continued estimation of coho salmon abundance. Due to the fact that run projections did not increase to 50,000 fish, the commercial fishery was not opened in week 38, and remained closed until late in week 40. After two days of test fishing in week 40, the border escapement projection increased to 83,851 pieces, increasing the TAC to 10,000 coho salmon. As a result, the commercial fishery was re-opened, from September 29 through October 8 , to coincide with end of the test fishery. There were five days of commercial fishing in this period (all in week 41, starting October 2) by one to two boats, landing 284 coho salmon.

The total treaty catch of coho salmon in the commercial fishery was 3,512 fish. The catch in the test fishery was 3,169 coho salmon. The final inseason abundance estimate of the inriver coho salmon run was 102,772 fish. Accordingly, as per PST provisions, the Canadian allowable catch after week 33 was 10,000 salmon.

The cumulative commercial fishery sockeye salmon CPUE for the season was 778 fbd , $12 \%$ below the average. As noted CPUE was well below average through week 31; after this it was average to well above average. Peak CPUE was observed in week 32, but the week 35 CPUE almost matched this, indicating that the run was significantly later than usual. Typically peak sockeye salmon CPUE occurs in week 31.

The cumulative coho salmon CPUE through week 41 was 450 fbd; within 1 fbd of average. CPUE peaked in week 36, which is the week in which CPUE has peaked the most frequently in the last ten years. It should be noted that CPUE data may not
accurately reflect run abundance and timing due to the sporadic nature of the coho salmon fishery.

## 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. Enumeration weirs operated by DFO at Little Trapper and Tatsamenie lakes provide information on the distribution and abundance of discrete spawning stocks within the watershed. An additional sockeye salmon enumeration program is conducted at Kuthai Lake by the TRTFN, who expanded their operations to King Salmon Lake in 2005 for the third consecutive year.

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 estimated border and spawning escapement are 142,155 and 120,053 sockeye salmon, respectively. The spawning escapement was 16,000 above average and above the mid-point of the interim escapement goal range of 71,000 to 80,000 sockeye salmon.

The sockeye salmon count through the Kuthai Lake weir was 6,004 fish, $25 \%$ above the average count of 4,800 fish. The sex composition is estimated at $63 \%$ female. The midpoint of the run was on August 8, about two weeks later than average; this was due in part to a strong pulse of fish at the end of August.

The Little Trapper Lake weir count was 16,009 sockeye salmon, $29 \%$ above average of 12,400 fish; it should be noted however that the 2003 record high escapement of approximately 31,000 fish has a strong influence on this average. The sex composition is estimated at $35 \%$ female. Run timing was average, with the mid-point occurring on August 7.

The Tatsamenie Lake weir count in 2005 was 3,372 sockeye salmon. This was $44 \%$ of the average of 7,800 fish; as is the case with the Trapper Lake escapements, one year, 2001 with a weir count of 22,575 fish has a large influence on the average. Based on weekly sampling results, $65 \%$ of the run was female. The mid-point fell on September 5, which is within two days of average. Approximately 928 fish were held for gamete collection, leaving a spawning escapement of 2,445 sockeye salmon.

The King Salmon weir count was 1,046 fish, well below both the weir count of 5,005 in 2004 and the boat-based count of 2,970 fish in 2003. The 2005 escapement is estimated to have been $47 \%$ female.

## 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 occurred April 25 through mid-July. Tag recovery effort consisted of the commercial fishery from May 1 through October 8 (weeks 19 - 41) as well as spawning ground sampling in August and September. The postseason above-border run estimate is 46,364 large Chinook salmon. The spawning escapement was 38,806 . These are lower than the averages of 53,488 run and 50,909 escapement. The escapement goal range is 30,000 to 55,000 fish.

Aerial surveys of large Chinook salmon to the six escapement index areas annually surveyed by ADF\&G were as follows: Nakina, 1,213 fish; Kowatua, 833 fish; Tatsamenie, 1,146 fish; Dudidontu, 318 fish; Tseta, 215 fish; and Nahlin, 471 fish. Kowatua and Tatsatua were average while the other systems were less than half of average.

Chinook salmon carcass weirs were operated on the Nakina and Tatsatua rivers in order to obtain tag and age-length-sex data. Totals of 1,582 and 536 large Chinook salmon were encountered, $32 \%$ and $43 \%$ lower respectively than what was observed in 2004.

## 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 occurred through October 4; recovery occurred through October 8 (week 41). The tag recovery effort consisted of commercial and test gillnet fisheries. The above border run estimate is 99,811 and the spawning escapement in 91,552 fish. Both are close to average and the spawning escapement is more than 2.5 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 15,839 pink salmon was captured the fish wheels in 2005; this was 5,000 fish greater than the odd-year average.

## Chum Salmon

As with pink salmon, the Canyon Island fish wheels are used to determine annual variations in border escapement. A total of 258 chum salmon was captured in the wheels in $2005,86 \%$ of average. 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.

## Steelhead Trout

There was no program in place to estimate the system-wide steelhead trout escapement. An escapement goal has not been set for this species. A total of 79 steelhead trout were caught and released at Canyon Island in 2005, this count was below average.

## Sockeye Salmon Run Reconstruction

An estimated 45,468 Taku sockeye salmon were caught in the U.S. District 111 fishery, including 627 fish originating from the Tatsamenie fry planting program. An additional 1,150 sockeye salmon were harvested in the U.S. inriver personal use fishery. Thus the total estimated U.S. harvest of Taku River sockeye salmon is 46,618 fish (Table 5).

In the Canadian commercial fishery harvested 21,697 sockeye salmon, including 257 fish originating from the Tatsamenie fry planting program. An additional 161 sockeye salmon were harvested in the food fishery. An estimated 102 wild sockeye salmon were taken in the Canadian aboriginal fishery. The total Canadian harvest was 21,858 sockeye salmon (Table 5).

The above border run was estimated to be 142,155 sockeye salmon with a spawning escapement of 120,153 fish. Based on the mid-range escapement goal of 75,000 fish, the TAC for wild fish was 112,613 sockeye salmon, of which the U.S. harvested $41 \%$ and Canada harvested $19 \%$ (Table 5). The TAC for the Tatsamenie planted fish was 1,160 fish of which the U.S. harvested 55\% and Canada harvested 22\%.


#### 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).




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

## 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 and 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 2004. Mark-recapture programs to estimate the total inriver abundance and the fraction of the escapement contributed by the Klukshu stocks were in operation since 1997 for Chinook salmon and since 2000 for sockeye salmon. These however were discontinued in 2005.

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 2004 season.

The stock-recruitment analysis of Klukshu sockeye salmon data has been completed 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 2005 was expected to be below average in strength. Principal contributing brood years to the 2005 run were expected to be 2000 (Klukshu escapement of 5,422 fish) and 2001 (Klukshu escapement of 9,329 fish); the average Klukshu escapement was 14,187 fish. Based on historical stockrecruitment analysis, the range of Klukshu escapements that appear most likely to produce maximum sustained yields is 7,500 to 15,000 sockeye salmon.

The 2005 overall Alsek River sockeye salmon run was expected to be approximately 54,862 fish. This estimate was based on: a predicted run of 12,890 Klukshu sockeye salmon derived from the average of the 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 well below the 1995-2004 average run size estimate of approximately 77,200 fish (based on the Klukshu weir count expanded by $1 / 0.27$ to account for other inriver escapement and an assumed U.S. harvest rate of $20 \%$ ).

The Klukshu early sockeye salmon run escapements in 2000 and 2001 were 237 and 908, respectively (Appendix C.7). Both the 2000 and 2001 escapements were well below the optimum level of 2,500 sockeye salmon spawners as determined through separate stockrecruitment analyses by DFO of the early run. Due to the under escapement in 2000 and 2001, the early run was expected to be below average.

The Klukshu Chinook salmon escapements in 2000 and 2001, 1,321 and 1,738 fish, respectively. 2000 was well below average and 2001 was close to average (Appendix C.7). The escapements for 2000 and 2001 were near the lower end and the upper middle 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 2005 overall Alsek River Chinook salmon run was expected to be approximately 16,433 Chinook salmon. This estimate was based on: a predicted run of 2,988 Klukshu Chinook salmon derived from the historical Klukshu stock-recruitment data; and an assumed Klukshu contribution to the total run of approximately $17 \%$.

The coho salmon escapements observed at the Klukshu River in 2001 (746 coho salmon but incomplete count) and 2002 (9,921 coho salmon) suggests the run in 2005 would be above average (Appendix C.7). The 1995-2004 average escapement was approximately 3,172 coho salmon.

## U.S. Fisheries

The Dry Bay commercial set-gillnet fishery harvested 239 large and 47 jack Chinook, 7,572 sockeye, and 1,196 coho salmon (Appendix C.1). No pink or chum salmon were harvested. A test fishery was conducted on the Alsek River for Chinook salmon in 2005, and that fishery produced another 222 sockeye and 423 Chinook salmon, for a total harvest of 7,794 sockeye and 662 Chinook salmon. The Chinook salmon harvest was near average, the sockeye salmon harvest was below average and the lowest harvest since 1988, and the coho salmon harvest was below average. Very little effort was recorded during the coho salmon season due to market conditions and the coho salmon harvest was the second lowest in the last 10 years. The number of fishing days was 41 . The total effort expended in the fishery was 171 boat-days.

The Alsek River commercial fishery opened on the first Sunday in June, week 24 (June 5) (Appendix C.1). The initial opening remained at 24 hours. The fishery was extended to 48 hours during week 25 due to faulty catch reporting, and final CPUE for the week indicated the extension was not in order. Weekly openings remained at 24 hours for the next three weeks of the season. Fishing time was extended to 48 hours during the second week of July, and remained at 24 hours during the third week before again being
extended to 48 hours during the fourth week of July. Effort in the Alsek River became minimal from this point on. The fishery targeted coho salmon after mid-August and fishing times remained at three days per week for the first six weeks of the coho salmon season. With minimal effort and good coho salmon CPUE, fishing time was opened to four days per week for the last two weeks of the season. No effort was recorded on the Alsek from August 14 through September 10.

Historically, a set gillnet fishery targeting on Chinook salmon was conducted during May and early-June. Due to depressed runs, the directed fishery has been closed since 1963 and Chinook salmon have only been harvested incidentally during the sockeye salmon fishery in early June. From 1963 through 1997, the early June periods were limited in time in order to reduce the impact on Chinook salmon. With the advent of the new Chinook salmon escapement goal concern for incidentally caught Chinook salmon has diminished, therefore the management of the early June periods was based on sockeye salmon CPUE. Gillnet mesh size was restricted to a maximum of six inches through July 1.

The Transboundary River Panel agreed to a limited Chinook salmon test fishery in the lower Alsek River beginning in 2005 and continuing through 2008. The goal of the test fishery is to enable the department to develop a cost effective method for determining the abundance of Chinook salmon on an inseason basis using test fishery CPUE as an index of abundance. The test fishery commenced on May 23 and continued on a weekly basis through July 2. A total of 423 Chinook salmon were harvested in the test fishery. All fish were sampled for age, size, and sex, and 421 were sampled for genetics. A total of 222 sockeye salmon were harvested incidentally to the Chinook salmon harvest during the test fishery.

## Canadian Fisheries

The aboriginal fishery harvested an estimated 58 Chinook, 581 sockeye, and 20 coho salmon (Appendix C.2). All catches were below average.

Catch estimates for the Tatshenshini recreational fishery were well below average for Chinook salmon with an estimated 35 retained and sockeye salmon with an estimated harvest of 20 sockeye salmon, and coho salmon with 54 being harvested. The low Chinook salmon catches may have been attributed to the changed river channel (i.e., fewer holding areas below the Tatshenshini/Klukshu rivers confluence) and to the relocation of the Klukshu weir in 2001, which has allowed migrating salmon to stage further up from Dalton Post in the Klukshu River. Retention of sockeye salmon in the Tatshenshini River was permitted starting on August $15^{\text {th }}$ as per regulation. By early September, the sockeye salmon run forecast was not meeting the minimum escapement goal and it was decided to decrease the daily sockeye salmon limit to 0 starting on Sept $9^{\text {th }}$. The catch data was derived from a creel census in the Dalton Post area and a catch card program conducted by the Yukon Salmon Committee (YSC) and DFO. Weekly estimates are listed in Appendix C.2.

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 2005 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 and traditional fish traps as the fish migrate up the Klukshu River 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 2 days per week. After August 15, it was planned that the traps would be fished 3 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. Gaff 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 gaff 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 2 Chinook salmon. For other salmon species, the daily catch and possession limits were 2 , and 4 fish, respectively. However, the aggregate limit for all salmon combined was 2 salmon per day, 4 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 for the season 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 2005. 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 implemented as part of the development of abundance-based management regimes and to accurately assess whether the system-wide 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 2005 are shown in Table 8.

## Sockeye Salmon

The weir count and escapement estimates of Klukshu River sockeye salmon were 3,373 and 3,036 fish respectively in 2005 (Table 7, Appendices E. 3 and E.7). The count of 994 early run fish (count through August 15) was below average as was the count of 2,379 late run fish. The total escapement was the lowest on record, well below the average of 14,187 sockeye salmon, and was well below the upper end of the recommended escapement goal range of 7,500 to 15,000 fish. The sockeye salmon escapement estimate at the Village Creek counter of 1,398 fish in 2005 was also below average.

## 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 2005 were 1,070 and 963 fish respectively (Table 7), and were both below average. The 2005 escapement was near the revised interim escapement goal range of 1,100 to 2,300 Klukshu Chinook salmon.

## Coho Salmon

The Klukshu weir count and escapement of 683 and 615 fish are also below average (Table 7). The weir is 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 2005.

|  | Sockeye | Chinook | Coho |
| :--- | ---: | ---: | ---: |
| Escapement Index $^{\text {a }}$ |  |  |  |
| Klukshu Weir Count | 3,373 | 1,070 | 683 |
| Klukshu Escapement | 3,167 | 963 | 663 |
| Harvest $^{\text {b }}$ |  |  |  |
| U.S. Commercial | 7,572 | 239 | 1,196 |
| U.S. Subsistence | 63 | 31 | 62 |
| Canadian Sport | 13 | 56 | 51 |
| Canadian Aboriginal | 581 | 58 | 20 |
| Total Harvest | 8,229 | 384 | 1,329 |

${ }^{\text {a }}$ 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 2005, sockeye salmon eggs were collected at Tahltan Lake on the Stikine River for the eighteenth year, and in the Tatsamenie Lake system on the Taku River, for the sixteenth year of this program.

## Tahltan Lake

The egg collection was contracted to Arc Environmental Ltd. for the ninth consecutive year. The egg-take goal at Tahltan Lake is 6.0 million eggs. In spite of the large escapement at Tahltan only 4.5 million eggs were collected. Some of the explanation for the low egg take was difficulty collecting brood stock for several reasons. It appeared that warm weather delayed spawning. The technical committee had agreed to collect no eggs after the $25^{\text {th }}$ of September and this date was extended to the $29^{\text {th }}$ to somewhat mitigate the delay in initiation of spawning. The contractor's crew also feels that the distribution of fish on the spawning area has changed over the years and fewer fish are available at the traditional collection site; other areas with fish do not look like they would be worth the effort of seining. The brood stock was collected by beach seine at the major spawning site as has been done in most years. There were 11 egg collections from September 9 to 29. Eggs collected on three different days were delayed in shipment to the hatchery due to weather; two of the shipments were delayed 48 hours. There is significantly lowered survival with shipments delayed more than 24 hours.

## Tatsamenie Lake

B. Mercer and Associates Ltd was contracted to collect eggs. Tatsamenie Lake brood stock was captured for the eleventh year at an adult enumeration weir located at the outlet of Tatsamenie Lake. A total of 573 females and 369 males were held prior to the first egg take on September 19. An estimated 1.8 million eggs were collected from 499 females and milt was collected from 330 males during 5 egg collections. Mortality of held fish included 13 females and 16 males; the remaining 52 females and 18 males not used for gamete collection were released. The 573 females used for brood stock represented $26 \%$ of the estimated escapement of females in to the lake.

## Incubation, Thermal Marking, and Fry Plants (2003 Brood Year)

The egg incubation and thermal-marking program at Snettisham Hatchery went smoothly in year 2004/2005. 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 2004 brood eggs took place at Snettisham Hatchery and the resultant fry were transported to the appropriate systems from May 20 to June 20, 2004. There were no IHN virus losses of sockeye salmon fry from transboundary lakes.

## Tahltan Lake

A total of 1.28 million fry from the 2004 Tahltan sockeye salmon egg take was planted back into Tahltan Lake in 2005. Survival from green-egg to outplanted fry was $71 \%$ (this low survival is because shipment of collected eggs was delayed due to weather). Fry outplanting took place from May 17 to May 20.

## Tuya Lake

There were 3.20 (Appendix D.2) million fry planted in Tuya Lake from June 8 to June 15. These fish were from eggs collected at Tahltan Lake in the fall of 2004. Survival from green-egg to outplanted fry was $78 \%$.

## Tatsamenie Lake

A total of 1.47 million fry from the 2004 egg-take was released into Tatsamenie Lake in 2005. There were two treatment groups: one group was released at the North end and one at the South end of the lake; outplanting took place on May 20. Neither group was fed, however the fry were held for observation before release. Survival from green-egg to outplanted-fry was $81 \%$.

The strategy behind releasing at two locations is to put fry in an area with little natural production. The south end of the lake traditionally has few fry along the shore. Past studies have indicated a protracted shore residence for hatchery and wild fry and we hope that fry release at the South end will enjoy less competition and better survival.

## Outplant Evaluation Surveys

The Salmon Indexing Methods Unit of Stock Assessment Division of the Pacific Biological Station (PBS) and the Yukon/Transboundary Stock Assessment section of Fisheries and Oceans Canada, directed surveys in 2005. B. Mercer \& Associates conducted limnological, beach seine, hydroacoustic and trawl surveys at Tatsamenie Lake. B. Mercer \& Associates conducted limnological and beach seining surveys at Tuya Lake in the spring, and Tahltan Fisheries conducted an early August survey that included index netting. Fisheries and Oceans Canada (DFO) personnel performed limnological and beach seine surveys at Tahltan Lake.

DFO examined fry otoliths at their thermal mark lab in Whitehorse, Yukon. Data analyses will take place during the winter of 2005/2006. Limnetic fish population estimates (rounded to the nearest 100,000), density estimates, and beach seine catches will be presented in the annual report. Currently, beach seine catches serve as a
qualitative index of the abundance of fish in the littoral zone, provide samples to evaluate the proportion of wild to outplanted hatchery fry, and provide length and weight data

## Thermal Mark Laboratories

## ADF \&G Thermal Mark Laboratory

During the 2005 season the ADFG thermal mark lab received otoliths from 11,600 sockeye salmon collected by ADFG and DFO staff as part of the U.S./Canada fryplanting 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 12-week period. In addition, several escapement samples were examined. Combined, the laboratory processed 11,500 of the otoliths received (99\%) and provided estimates on hatchery contributions for almost 100 distinct sampling collections. Of these totals, 2,000 otoliths were identified and classified as belonging to one of 30 marked groups. 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 ADF\&G otolith lab to estimate the weekly contribution of planted sockeye salmon to the District 106, 108, and 111 gillnet fisheries and to Canadian commercial fisheries in the Stikine and Taku Rivers. Contributions of planted sockeye salmon stocks to catches were as follows: 36,053 planted Stikine River fish to District 106 and 108 and 641 planted Taku River fish to District 111 (includes inriver personal use fishery). Estimates of contributions to Canadian fisheries included 31,095 planted Stikine River fish to Stikine River fisheries and 259 planted Taku River fish to the Taku River fisheries.

## Canadian Thermal Mark Laboratory

Sub-samples of juvenile and adult otolith samples collected at the study lakes during the 2005 season were analyzed at the DFO thermal mark lab in Whitehorse.

## APPENDICES

Appendix A. 1. Weekly salmon catch in the Alaskan District 106 commercial drift gillnet fisheries, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink ${ }^{\text {a }}$ | Chum | Permits | Days | Permit |
|  |  | Large | Jacks |  |  |  |  |  |  | Days |
| 25 | 12-Jun | 338 | 19 | 1,056 | 1,185 | 1,133 | 50 | 15 | 3.0 | 45 |
| 26 | 19-Jun | 402 | 18 | 16,552 | 8,842 | 16,573 | 1,152 | 52 | 4.0 | 208 |
| 27 | 26-Jun | 329 | 2 | 13,210 | 10,379 | 36,014 | 21,381 | 75 | 4.0 | 300 |
| 28 | 3-Jul | 122 | 3 | 12,215 | 8,156 | 36,457 | 30,378 | 77 | 3.0 | 231 |
| 29 | 10-Jul | 132 | 2 | 14,930 | 8,872 | 115,267 | 50,805 | 95 | 3.0 | 285 |
| 30 | 17-Jul | 65 | 1 | 12,978 | 5,345 | 113,787 | 32,448 | 88 | 3.0 | 264 |
| 31 | 24-Jul | 67 | 0 | 5,164 | 1,942 | 32,010 | 9,926 | 53 | 2.0 | 106 |
| 32 | 31-Jul | 14 | 0 | 5,053 | 1,888 | 30,900 | 8,885 | 55 | 2.0 | 110 |
| 33 | 7-Aug | 11 | 0 | 9,754 | 2,842 | 24,696 | 9,088 | 52 | 4.0 | 208 |
| 34 | 14-Aug | 5 | 0 | 9,319 | 4,341 | 19,969 | 6,952 | 54 | 4.0 | 216 |
| 35 | 21-Aug | 2 | 1 | 5,954 | 7,276 | 23,958 | 7,312 | 49 | 4.0 | 196 |
| 36 | 28-Aug | 3 | 0 | 2,449 | 9,166 | 9,224 | 7,720 | 54 | 3.0 | 162 |
| 37 | 4-Sep | 1 | 0 | 541 | 5,418 | 533 | 2,633 | 51 | 3.0 | 153 |
| 38 | 11-Sep | 11 | 0 | 712 | 13,044 | 617 | 4,278 | 51 | 2.0 | 102 |
| 39 | 18-Sep | 16 | 0 | 252 | 13,631 | 48 | 3,172 | 57 | 3.0 | 171 |
| 40 | 25-Sep | 8 | 0 | 49 | 10,244 | 1 | 2,063 | 45 | 3.0 | 135 |
| 41 | 2-Oct | 0 | 0 | 4 | 1,869 | 0 | 321 | 24 | 3.0 | 72 |
| Total |  | 1,526 | 46 | 110,192 | 114,440 | 461,187 | 198,564 |  | 53.0 | 2,964 |
| Alaska Hatchery Contributions |  |  |  |  |  |  |  |  |  |  |
| 25 | 12-Jun | 104 | 0 |  | 233 |  | 0 |  |  |  |
| 26 | 19-Jun | 63 | 0 |  | 1,469 |  | 2,138 |  |  |  |
| 27 | 26-Jun | 156 | 0 |  | 1,635 |  | 9,247 |  |  |  |
| 28 | 3-Jul | 166 | 0 |  | 1,741 |  | 17,790 |  |  |  |
| 29 | 10-Jul | 0 | 0 |  | 465 |  | 9,449 |  |  |  |
| 30 | 17-Jul | 168 | 0 |  | 204 |  | 5,169 |  |  |  |
| 31 | 24-Jul | 0 | 0 |  | 129 |  | 1,903 |  |  |  |
| 32 | 31-Jul | 0 | 0 |  | 26 |  | 639 |  |  |  |
| 33 | 7-Aug | 0 | 0 |  | 0 |  | 1,982 |  |  |  |
| 34 | 14-Aug | 0 | 0 |  | 0 |  | 1,367 |  |  |  |
| 35 | 21-Aug | 0 | 0 |  | 559 |  | 0 |  |  |  |
| 36 | 28-Aug | 0 | 0 |  | 2,694 |  | 4,112 |  |  |  |
| 37 | 4-Sep | 0 | 0 |  | 1,064 |  | 0 |  |  |  |
| 38 | 11-Sep | 0 | 0 |  | 1,593 |  | 0 |  |  |  |
| 39 | 18-Sep | 0 | 0 |  | 8,709 |  | 0 |  |  |  |
| 40 | 25-Sep | 0 | 0 |  | 8,354 |  | 0 |  |  |  |
| 41 | 2-Oct | 0 | 0 |  | 1,853 |  | 0 |  |  |  |
| Total |  | 657 |  |  | 30,727 |  | 53,795 |  |  |  |
| Catches not including Alaska hatchery contributions |  |  |  |  |  |  |  |  |  |  |
| 25 | 12-Jun | 234 | 19 | 1,056 | 952 | 1,133 | 50 | 15 | 3.0 | 45 |
| 26 | 19-Jun | 339 | 18 | 16,552 | 7,373 | 16,573 | -986 | 52 | 4.0 | 208 |
| 27 | 26-Jun | 173 | 2 | 13,210 | 8,744 | 36,014 | 12,134 | 75 | 4.0 | 300 |
| 28 | 3-Jul | -44 | 3 | 12,215 | 6,415 | 36,457 | 12,588 | 77 | 3.0 | 231 |
| 29 | 10-Jul | 132 | 2 | 14,930 | 8,407 | 115,267 | 41,356 | 95 | 3.0 | 285 |
| 30 | 17-Jul | -103 | 1 | 12,978 | 5,141 | 113,787 | 27,279 | 88 | 3.0 | 264 |
| 31 | 24-Jul | 67 | 0 | 5,164 | 1,813 | 32,010 | 8,023 | 53 | 2.0 | 106 |
| 32 | 31-Jul | 14 | 0 | 5,053 | 1,862 | 30,900 | 8,246 | 55 | 2.0 | 110 |
| 33 | 7-Aug | 11 | 0 | 9,754 | 2,842 | 24,696 | 7,106 | 52 | 4.0 | 208 |
| 34 | 14-Aug | 5 | 0 | 9,319 | 4,341 | 19,969 | 5,585 | 54 | 4.0 | 216 |
| 35 | 21-Aug | 2 | 1 | 5,954 | 6,717 | 23,958 | 7,312 | 49 | 4.0 | 196 |
| 36 | 28-Aug | 3 | 0 | 2,449 | 6,472 | 9,224 | 3,608 | 54 | 3.0 | 162 |
| 37 | 4-Sep | 1 | 0 | 541 | 4,354 | 533 | 2,633 | 51 | 3.0 | 153 |
| 38 | 11-Sep | 11 | 0 | 712 | 11,451 | 617 | 4,278 | 51 | 2.0 | 102 |
| 39 | 18-Sep | 16 | 0 | 252 | 4,922 | 48 | 3,172 | 57 | 3.0 | 171 |
| 40 | 25-Sep | 8 | 0 | 49 | 1,890 | 1 | 2,063 | 45 | 3.0 | 135 |
| 41 | 2-Oct | 0 | 0 | 4 | 16 | 0 | 321 | 24 | 3.0 | 72 |
| Total |  | 869 | 46 | 110,192 | 83,713 | 461,187 | 144,769 | 947 | 53.0 | 2,964 |

[^0]Appendix A. 2. Weekly stock proportions of sockeye salmon harvested in the Alaskan District 106 commercial drift gillnet fisheries, 2005.

| Week | Alaska | Canada | Stikine |  |  |  | Planted Tahltan | CPUE of Stikine Fish |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.291 | 0.378 | 0.248 | 0.000 | 0.083 | 0.330 | 0.086 | 0.067 | 0.000 | 0.134 | 0.077 |
| 26 | 0.209 | 0.405 | 0.370 | 0.000 | 0.016 | 0.386 | 0.154 | 0.341 | 0.000 | 0.088 | 0.305 |
| 27 | 0.200 | 0.355 | 0.437 | 0.000 | 0.007 | 0.445 | 0.218 | 0.223 | 0.000 | 0.022 | 0.194 |
| 28 | 0.347 | 0.440 | 0.211 | 0.000 | 0.001 | 0.213 | 0.111 | 0.129 | 0.000 | 0.005 | 0.112 |
| 29 | 0.465 | 0.330 | 0.197 | 0.000 | 0.008 | 0.205 | 0.126 | 0.119 | 0.000 | 0.031 | 0.107 |
| 30 | 0.515 | 0.226 | 0.140 | 0.000 | 0.119 | 0.259 | 0.087 | 0.080 | 0.000 | 0.403 | 0.126 |
| 31 | 0.687 | 0.292 | 0.017 | 0.000 | 0.004 | 0.021 | 0.046 | 0.010 | 0.000 | 0.012 | 0.010 |
| 32 | 0.752 | 0.217 | 0.019 | 0.000 | 0.013 | 0.032 | 0.020 | 0.010 | 0.000 | 0.041 | 0.014 |
| 33 | 0.677 | 0.235 | 0.020 | 0.000 | 0.069 | 0.088 | 0.010 | 0.011 | 0.000 | 0.223 | 0.041 |
| 34 | 0.785 | 0.198 | 0.015 | 0.000 | 0.002 | 0.017 | 0.003 | 0.008 | 0.000 | 0.006 | 0.007 |
| 35 | 0.701 | 0.292 | 0.007 | 0.000 | 0.000 | 0.007 | 0.000 | 0.003 | 0.000 | 0.000 | 0.002 |
| 36 | 0.619 | 0.380 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 37 | 0.566 | 0.375 | 0.006 | 0.000 | 0.053 | 0.059 | 0.000 | 0.000 | 0.000 | 0.013 | 0.002 |
| 38 | 0.699 | 0.269 | 0.003 | 0.000 | 0.028 | 0.032 | 0.000 | 0.000 | 0.000 | 0.014 | 0.002 |
| 39 | 0.576 | 0.367 | 0.006 | 0.000 | 0.051 | 0.057 | 0.000 | 0.000 | 0.000 | 0.005 | 0.001 |
| 40 | 0.613 | 0.338 | 0.005 | 0.000 | 0.044 | 0.049 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 41 | 0.593 | 0.353 | 0.005 | 0.000 | 0.048 | 0.053 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.474 | 0.317 | 0.182 | 0.000 | 0.027 | 0.209 | 0.094 |  |  |  |  |
| Catches |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 308 | 399 | 262 | 0 | 87 | 349 | 90 | 5.8 | 0.0 | 1.9 | 7.8 |
| 26 | 3,454 | 6,705 | 6,128 | 0 | 265 | 6,393 | 2,551 | 29.5 | 0.0 | 1.3 | 30.7 |
| 27 | 2,640 | 4,695 | 5,779 | 0 | 96 | 5,874 | 2,886 | 19.3 | 0.0 | 0.3 | 19.6 |
| 28 | 4,237 | 5,378 | 2,582 | 0 | 18 | 2,600 | 1,354 | 11.2 | 0.0 | 0.1 | 11.3 |
| 29 | 6,937 | 4,927 | 2,940 | 0 | 126 | 3,066 | 1,886 | 10.3 | 0.0 | 0.4 | 10.8 |
| 30 | 6,679 | 2,939 | 1,822 | 0 | 1,538 | 3,360 | 1,129 | 6.9 | 0.0 | 5.8 | 12.7 |
| 31 | 3,547 | 1,508 | 90 | 0 | 18 | 108 | 236 | 0.8 | 0.0 | 0.2 | 1.0 |
| 32 | 3,797 | 1,096 | 95 | 0 | 65 | 160 | 99 | 0.9 | 0.0 | 0.6 | 1.5 |
| 33 | 6,605 | 2,288 | 191 | 0 | 670 | 861 | 95 | 0.9 | 0.0 | 3.2 | 4.1 |
| 34 | 7,317 | 1,842 | 143 | 0 | 17 | 160 | 29 | 0.7 | 0.0 | 0.1 | 0.7 |
| 35 | 4,171 | 1,741 | 43 | 0 | 0 | 43 | 0 | 0.2 | 0.0 | 0.0 | 0.2 |
| 36 | 1,517 | 930 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 306 | 203 | 3 | 0 | 29 | 32 | 0 | 0.0 | 0.0 | 0.2 | 0.2 |
| 38 | 498 | 192 | 2 | 0 | 20 | 23 | 0 | 0.0 | 0.0 | 0.2 | 0.2 |
| 39 | 145 | 93 | 1 | 0 | 13 | 14 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 40 | 30 | 17 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 52,192 | 34,952 | 20,080 | 0 | 2,967 | 23,048 | 10,356 | 86.5 | 0.0 | 14.4 | 100.9 |

Appendix A. 3. Weekly salmon catch and effort in the Alaskan Subdistrict 106-41\&42 (Sumner Strait) commercial drift gillnet fishery, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit Days |
|  |  | Large | Jacks |  |  |  |  |  |  |  |
| 25 | 12-Jun | 238 | 19 | 1,044 | 1,109 | 1,111 | 50 | 12 | 3.0 | 36 |
| 26 | 19-Jun | 361 | 18 | 15,914 | 6,056 | 14,828 | 1,082 | 44 | 4.0 | 176 |
| 27 | 26-Jun | 200 | 2 | 12,047 | 6,087 | 31,025 | 20,564 | 56 | 4.0 | 224 |
| 28 | 3-Jul | 82 | 3 | 11,387 | 4,829 | 35,178 | 29,647 | 64 | 3.0 | 192 |
| 29 | 10-Jul | 41 | 0 | 11,318 | 5,584 | 67,304 | 37,992 | 63 | 3.0 | 189 |
| 30 | 17-Jul | 24 | 1 | 9,566 | 3,040 | 75,058 | 20,933 | 64 | 3.0 | 192 |
| 31 | 24-Jul | 5 | 0 | 3,171 | 1,244 | 15,636 | 7,084 | 34 | 2.0 | 68 |
| 32 | 31-Jul | 3 | 0 | 2,674 | 1,171 | 13,066 | 5,810 | 36 | 2.0 | 72 |
| 33 | 7-Aug | 3 | 0 | 5,095 | 1,717 | 9,269 | 4,473 | 28 | 4.0 | 112 |
| 34 | 14-Aug | 2 | 0 | 4,130 | 1,958 | 7,606 | 2,955 | 17 | 4.0 | 68 |
| 35 | 21-Aug | 0 | 0 | 4,366 | 5,863 | 16,298 | 5,382 | 30 | 4.0 | 120 |
| 36 | 28-Aug | 2 | 0 | 1,932 | 7,506 | 5,913 | 6,590 | 37 | 3.0 | 111 |
| 37 | 4-Sep | 1 | 0 | 448 | 4,550 | 415 | 2,249 | 39 | 3.0 | 117 |
| 38 | 11-Sep | 6 | 0 | 316 | 7,133 | 268 | 2,648 | 28 | 2.0 | 56 |
| 39 | 18-Sep | 12 | 0 | 202 | 11,390 | 41 | 2,594 | 39 | 3.0 | 117 |
| 40 | 25-Sep | 8 | 0 | 34 | 6,407 | 1 | 1,460 | 31 | 3.0 | 93 |
| 41 | 2-Oct | 0 | 0 | 3 | 1,415 | 0 | 272 | 19 | 3.0 | 57 |
| Total |  | 988 | 43 | 83,647 | 77,059 | 293,017 | 151,785 |  | 53.0 | 2,000 |

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, 2005.

| Data based on SPA. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
| Week | Alaska | Canada | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.289 | 0.378 | 0.249 | 0.000 | 0.083 | 0.332 | 0.087 | 0.068 | 0.000 | 0.135 | 0.078 |
| 26 | 0.198 | 0.407 | 0.380 | 0.000 | 0.016 | 0.395 | 0.160 | 0.324 | 0.000 | 0.080 | 0.289 |
| 27 | 0.172 | 0.355 | 0.467 | 0.000 | 0.006 | 0.472 | 0.240 | 0.237 | 0.000 | 0.018 | 0.205 |
| 28 | 0.337 | 0.446 | 0.217 | 0.000 | 0.000 | 0.217 | 0.119 | 0.122 | 0.000 | 0.000 | 0.104 |
| 29 | 0.458 | 0.322 | 0.216 | 0.000 | 0.004 | 0.221 | 0.167 | 0.122 | 0.000 | 0.014 | 0.107 |
| 30 | 0.437 | 0.243 | 0.190 | 0.000 | 0.130 | 0.321 | 0.118 | 0.090 | 0.000 | 0.364 | 0.129 |
| 31 | 0.689 | 0.277 | 0.028 | 0.000 | 0.006 | 0.034 | 0.070 | 0.013 | 0.000 | 0.015 | 0.013 |
| 32 | 0.786 | 0.185 | 0.027 | 0.000 | 0.002 | 0.029 | 0.028 | 0.010 | 0.000 | 0.003 | 0.009 |
| 33 | 0.604 | 0.252 | 0.016 | 0.000 | 0.128 | 0.145 | 0.014 | 0.007 | 0.000 | 0.327 | 0.053 |
| 34 | 0.820 | 0.175 | 0.006 | 0.000 | 0.000 | 0.006 | 0.007 | 0.003 | 0.000 | 0.000 | 0.003 |
| 35 | 0.654 | 0.337 | 0.010 | 0.000 | 0.000 | 0.010 | 0.000 | 0.003 | 0.000 | 0.000 | 0.003 |
| 36 | 0.563 | 0.436 | 0.000 | 0.000 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 37 | 0.507 | 0.422 | 0.007 | 0.000 | 0.064 | 0.071 | 0.000 | 0.000 | 0.000 | 0.014 | 0.002 |
| 38 | 0.507 | 0.422 | 0.007 | 0.000 | 0.064 | 0.071 | 0.000 | 0.000 | 0.000 | 0.020 | 0.003 |
| 39 | 0.507 | 0.422 | 0.007 | 0.000 | 0.064 | 0.071 | 0.000 | 0.000 | 0.000 | 0.006 | 0.001 |
| 40 | 0.507 | 0.422 | 0.007 | 0.000 | 0.064 | 0.071 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| Total | 0.405 | 0.338 | 0.227 | 0.000 | 0.029 | 0.256 | 0.123 | 0.856 | 0.000 | 0.144 | 1.000 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 302 | 395 | 260 | 0 | 87 | 347 | 90 | 7.2 | 0.0 | 2.4 | 9.6 |
| 26 | 3,144 | 6,478 | 6,041 | 0 | 251 | 6,292 | 2,551 | 34.3 | 0.0 | 1.4 | 35.8 |
| 27 | 2,074 | 4,282 | 5,620 | 0 | 71 | 5,691 | 2,886 | 25.1 | 0.0 | 0.3 | 25.4 |
| 28 | 3,834 | 5,083 | 2,469 | 0 | 0 | 2,469 | 1,354 | 12.9 | 0.0 | 0.0 | 12.9 |
| 29 | 5,179 | 3,642 | 2,448 | 0 | 49 | 2,497 | 1,886 | 13.0 | 0.0 | 0.3 | 13.2 |
| 30 | 4,179 | 2,320 | 1,822 | 0 | 1,245 | 3,067 | 1,129 | 9.5 | 0.0 | 6.5 | 16.0 |
| 31 | 2,184 | 878 | 90 | 0 | 18 | 108 | 221 | 1.3 | 0.0 | 0.3 | 1.6 |
| 32 | 2,102 | 495 | 73 | 0 | 4 | 77 | 75 | 1.0 | 0.0 | 0.1 | 1.1 |
| 33 | 3,075 | 1,282 | 83 | 0 | 654 | 738 | 71 | 0.7 | 0.0 | 5.8 | 6.6 |
| 34 | 3,385 | 722 | 23 | 0 | 0 | 23 | 29 | 0.3 | 0.0 | 0.0 | 0.3 |
| 35 | 2,853 | 1,470 | 43 | 0 | 0 | 43 | 0 | 0.4 | 0.0 | 0.0 | 0.4 |
| 36 | 1,088 | 842 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 227 | 189 | 3 | 0 | 29 | 32 | 0 | 0.0 | 0.0 | 0.2 | 0.3 |
| 38 | 160 | 133 | 2 | 0 | 20 | 23 | 0 | 0.0 | 0.0 | 0.4 | 0.4 |
| 39 | 102 | 85 | 1 | 0 | 13 | 14 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 40 | 17 | 14 | 0 | 0 | 2 | 2 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 33,909 | 28,312 | 18,979 | 0 | 2,447 | 21,426 | 10,292 | 105.8 | 0.0 | 17.8 | 123.6 |

[^1]Appendix A. 5. Weekly salmon catch and effort in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2005.

| Week | Start Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Permits | Days | Permit Days |
|  |  | Large | Jacks |  |  |  |  |  |  |  |
| 25 | 19-Jun | 100 | 0 | 12 | 76 | 22 | 0 | 3 | 3.0 | 9 |
| 26 | 26-Jun | 41 | 0 | 638 | 2,786 | 1,745 | 70 | 9 | 4.0 | 36 |
| 27 | 3-Jul | 129 | 0 | 1,163 | 4,292 | 4,989 | 817 | 21 | 4.0 | 84 |
| 28 | 10-Jul | 40 | 0 | 828 | 3,327 | 1,279 | 731 | 14 | 3.0 | 42 |
| 29 | 17-Jul | 91 | 2 | 3,612 | 3,288 | 47,963 | 12,813 | 33 | 3.0 | 99 |
| 30 | 24-Jul | 41 | 0 | 3,412 | 2,305 | 38,729 | 11,515 | 26 | 3.0 | 78 |
| 31 | 31-Jul | 62 | 0 | 1,993 | 698 | 16,374 | 2,842 | 20 | 2.0 | 40 |
| 32 | 7-Aug | 11 | 0 | 2,379 | 717 | 17,834 | 3,075 | 19 | 2.0 | 38 |
| 33 | 14-Aug | 8 | 0 | 4,659 | 1,125 | 15,427 | 4,615 | 25 | 4.0 | 100 |
| 34 | 21-Aug | 3 | 0 | 5,189 | 2,383 | 12,363 | 3,997 | 38 | 4.0 | 152 |
| 35 | 28-Aug | 2 | 1 | 1,588 | 1,413 | 7,660 | 1,930 | 20 | 4.0 | 80 |
| 36 | 4-Sep | 1 | 0 | 517 | 1,660 | 3,311 | 1,130 | 17 | 3.0 | 51 |
| 37 | 11-Sep | 0 | 0 | 93 | 868 | 118 | 384 | 13 | 3.0 | 39 |
| 38 | 18-Sep | 5 | 0 | 396 | 5,911 | 349 | 1,630 | 23 | 2.0 | 46 |
| 39 | 25-Sep | 4 | 0 | 50 | 2,241 | 7 | 578 | 18 | 3.0 | 54 |
| 40 | 2-Oct | 0 | 0 | 15 | 3,837 | 0 | 603 | 14 | 3.0 | 42 |
| 41 | 9-Oct | 0 | 0 | 1 | 454 | 0 | 49 | 5 | 3.0 | 15 |
| Total |  | 538 | 3 | 26,545 | 37,381 | 168,170 | 46,779 |  | 53.0 | 1,005 |

Appendix A. 6. Weekly stock proportions and catches of sockeye salmon harvested in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 2005.

| Week | Alaska | Canada | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 0.487 | 0.356 | 0.136 | 0.000 | 0.021 | 0.158 | 0.000 | 0.012 | 0.000 | 0.004 | 0.010 |
| 26 | 0.487 | 0.356 | 0.136 | 0.000 | 0.021 | 0.158 | 0.000 | 0.166 | 0.000 | 0.051 | 0.126 |
| 27 | 0.487 | 0.356 | 0.136 | 0.000 | 0.021 | 0.158 | 0.000 | 0.129 | 0.000 | 0.039 | 0.099 |
| 28 | 0.487 | 0.356 | 0.136 | 0.000 | 0.021 | 0.158 | 0.000 | 0.184 | 0.000 | 0.056 | 0.141 |
| 29 | 0.487 | 0.356 | 0.136 | 0.000 | 0.021 | 0.158 | 0.000 | 0.341 | 0.000 | 0.104 | 0.260 |
| 30 | 0.733 | 0.182 | 0.000 | 0.000 | 0.086 | 0.086 | 0.000 | 0.000 | 0.000 | 0.498 | 0.170 |
| 31 | 0.684 | 0.316 | 0.000 | 0.000 | 0.000 | 0.000 | 0.008 | 0.000 | 0.000 | 0.000 | 0.000 |
| 32 | 0.713 | 0.253 | 0.009 | 0.000 | 0.026 | 0.035 | 0.010 | 0.039 | 0.000 | 0.212 | 0.098 |
| 33 | 0.758 | 0.216 | 0.023 | 0.000 | 0.003 | 0.027 | 0.005 | 0.074 | 0.000 | 0.021 | 0.056 |
| 34 | 0.758 | 0.216 | 0.023 | 0.000 | 0.003 | 0.027 | 0.000 | 0.054 | 0.000 | 0.015 | 0.041 |
| 35 | 0.830 | 0.170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 36 | 0.830 | 0.170 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 37 | 0.853 | 0.147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 38 | 0.853 | 0.147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 39 | 0.853 | 0.147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 40 | 0.853 | 0.147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 41 | 0.853 | 0.147 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.689 | 0.250 | 0.041 | 0.000 | 0.020 | 0.061 | 0.002 | 0.659 | 0.000 | 0.341 | 1.000 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 6 | 4 | 2 | 0 | 0 | 2 | 0 | 0.2 | 0.0 | 0.0 | 0.2 |
| 26 | 311 | 227 | 87 | 0 | 14 | 101 | 0 | 2.4 | 0.0 | 0.4 | 2.8 |
| 27 | 566 | 414 | 158 | 0 | 25 | 183 | 0 | 1.9 | 0.0 | 0.3 | 2.2 |
| 28 | 403 | 294 | 113 | 0 | 18 | 131 | 0 | 2.7 | 0.0 | 0.4 | 3.1 |
| 29 | 1,758 | 1,284 | 492 | 0 | 78 | 569 | 0 | 5.0 | 0.0 | 0.8 | 5.8 |
| 30 | 2,500 | 619 | 0 | 0 | 293 | 293 | 0 | 0.0 | 0.0 | 3.8 | 3.8 |
| 31 | 1,363 | 630 | 0 | 0 | 0 | 0 | 15 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32 | 1,695 | 601 | 22 | 0 | 61 | 82 | 25 | 0.6 | 0.0 | 1.6 | 2.2 |
| 33 | 3,530 | 1,006 | 108 | 0 | 16 | 123 | 24 | 1.1 | 0.0 | 0.2 | 1.2 |
| 34 | 3,931 | 1,120 | 120 | 0 | 17 | 138 | 0 | 0.8 | 0.0 | 0.1 | 0.9 |
| 35 | 1,318 | 270 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36 | 429 | 88 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37 | 79 | 14 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 38 | 338 | 58 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 39 | 43 | 7 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40 | 13 | 2 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 41 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 18,283 | 6,640 | 1,101 | 0 | 521 | 1,622 | 64 | 14.6 | 0.0 | 7.5 | 22.1 |

Appendix A. 7. Weekly salmon catch and effort in the Alaskan District 108 commercial drift gillnet fishery, 2005.

| Week | Start Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink ${ }^{\text {a }}$ | Chum | Permits | Days | Permit Days |
|  |  | Large | Jacks |  |  |  |  |  |  |  |
| 19 | 1-May | 632 | 63 | 0 | 0 | 0 | 0 | 36 | 4.0 | 144.0 |
| 20 | 8-May | 985 | 174 | 0 | 0 | 0 | 0 | 53 | 4.0 | 212.0 |
| 21 | 15-May | 2935 | 154 | 0 | 2 | 0 | 0 | 66 | 4.0 | 264.0 |
| 22 | 22-May | 2197 | 116 | 1 | 0 | 0 | 0 | 76 | 2.0 | 152.0 |
| 23 | 29-May | 5899 | 444 | 16 | 10 | 0 | 0 | 89 | 3.0 | 267.0 |
| 24 | 5-Jun | 8,117 | 611 | 171 | 8 | 0 | 5 | 104 | 4.0 | 416.0 |
| 25 | 12-Jun | 1,160 | 272 | 554 | 30 | 4 | 4 | 48 | 3.0 | 144.0 |
| 26 | 19-Jun | 722 | 241 | 9,948 | 838 | 803 | 116 | 42 | 4.0 | 168.0 |
| 27 | 26-Jun | 596 | 281 | 14,680 | 994 | 4,908 | 1,795 | 72 | 4.0 | 288.0 |
| 28 | 3-Jul | 388 | 183 | 23,625 | 1,369 | 15,029 | 9,132 | 98 | 4.0 | 392.0 |
| 29 | 10-Jul | 295 | 103 | 22,734 | 2,212 | 36,177 | 34,246 | 105 | 5.0 | 525.0 |
| 30 | 17-Jul | 226 | 25 | 11,692 | 1,561 | 28,226 | 39,076 | 88 | 4.0 | 352.0 |
| 31 | 24-Jul | 67 | 8 | 4,601 | 711 | 9,545 | 21,006 | 71 | 2.0 | 142.0 |
| 32 | 31-Jul | 17 | 1 | 2,616 | 1,070 | 4,091 | 19,386 | 50 | 2.0 | 100.0 |
| 33 | 7-Aug | 14 | 1 | 4,371 | 1,859 | 2,893 | 17,529 | 47 | 4.0 | 188.0 |
| 34 | 14-Aug | 8 | 0 | 2,618 | 2,858 | 2,900 | 2,455 | 36 | 4.0 | 144.0 |
| 35 | 21-Aug | 2 | 0 | 675 | 2,706 | 292 | 1,003 | 30 | 4.0 | 120.0 |
| 36 | 28-Aug | 3 | 0 | 626 | 6,290 | 1,386 | 1,381 | 46 | 3.0 | 138.0 |
| 37 | 4-Sep | 2 | 0 | 321 | 4,893 | 137 | 1,375 | 56 | 3.0 | 168.0 |
| 38 | 11-Sep | 10 | 0 | 196 | 7,656 | 4 | 975 | 47 | 2.0 | 94.0 |
| 39 | 18-Sep | 6 | 0 | 13 | 2,739 | 0 | 222 | 27 | 3.0 | 81.0 |
| 40 | 25-Sep | 12 | 0 | 6 | 2,090 | 0 | 171 | 18 | 3.0 | 54.0 |
| 41 | 2-Oct | 0 | 0 | 1 | 2,307 | 0 | 244 | 13 | 3.0 | 39.0 |
| Total |  | 24,293 | 2,676 | 99,465 | 42,203 | 106,395 | 150,121 |  | 78.0 | 4,592 |


| Alaska Hatchery Contributions |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | 1-May | 42 | 0 |  | 0 |  | 0 |  |  |  |
| 20 | 8-May | 33 | 9 |  | 0 |  | 0 |  |  |  |
| 21 | 15-May | 117 | 1 |  | 0 |  | 0 |  |  |  |
| 22 | 22-May | 89 | 10 |  | 0 |  | 0 |  |  |  |
| 23 | 29-May | 181 | 44 |  | 0 |  | 0 |  |  |  |
| 24 | 5-Jun | 242 | 303 |  | 0 |  | 0 |  |  |  |
| 25 | 12-Jun | 92 | 21 |  | 0 |  | 0 |  |  |  |
| 26 | 19-Jun | 306 | 25 |  | 165 |  | 0 |  |  |  |
| 27 | 26-Jun | 178 | 0 |  | 0 |  | 3,136 |  |  |  |
| 28 | 3-Jul | 175 | 0 |  | 244 |  | 10,743 |  |  |  |
| 29 | 10-Jul | 186 | 14 |  | 340 |  | 11,157 |  |  |  |
| 30 | 17-Jul | 168 | 0 |  | 27 |  | 8,922 |  |  |  |
| 31 | 24-Jul | 0 | 0 |  | 0 |  | 6,662 |  |  |  |
| 32 | 31-Jul | 0 | 0 |  | 25 |  | 4,617 |  |  |  |
| 33 | 7-Aug | 0 | 0 |  | 79 |  | 11,157 |  |  |  |
| 34 | 14-Aug | 8 | 0 |  | 0 |  | 4,423 |  |  |  |
| 35 | 21-Aug | 0 | 0 |  | 43 |  | 0 |  |  |  |
| 36 | 28-Aug | 0 | 0 |  | 127 |  | 0 |  |  |  |
| 37 | 4-Sep | 0 | 0 |  | 1,680 |  | 0 |  |  |  |
| 38 | 11-Sep | 0 | 0 |  | 1,334 |  | 1,726 |  |  |  |
| 39 | 18-Sep | 0 | 0 |  | 2,554 |  | 0 |  |  |  |
| 40 | 25-Sep | 0 | 0 |  | 2,368 |  | 0 |  |  |  |
| 41 | 2-Oct | 0 | 0 |  | 0 |  | 0 |  |  |  |
| Total |  | 1,816 | 426 | 0 | 8,986 | 0 | 62,543 |  |  |  |
| Catches not including Alaska hatchery contributions |  |  |  |  |  |  |  |  |  |  |
| 19 | 1-May | 590 | 63 | 0 | 0 | 0 | 0 | 36 | 4.0 | 144 |
| 20 | 8-May | 952 | 165 | 0 | 0 | 0 | 0 | 53 | 4.0 | 212 |
| 21 | 15-May | 2,817 | 153 | 0 | 2 | 0 | 0 | 66 | 4.0 | 264 |
| 22 | 22-May | 2,108 | 106 | 1 | 0 | 0 | 0 | 76 | 2.0 | 152 |
| 23 | 29-May | 5,718 | 400 | 16 | 10 | 0 | 0 | 89 | 3.0 | 267 |
| 24 | 5-Jun | 7,875 | 308 | 171 | 8 | 0 | 5 | 104 | 4.0 | 416 |
| 25 | 12-Jun | 1,068 | 251 | 554 | 30 | 4 | 4 | 48 | 3.0 | 144 |
| 26 | 19-Jun | 416 | 216 | 9,948 | 673 | 803 | 116 | 42 | 4.0 | 168 |
| 27 | 26-Jun | 419 | 281 | 14,680 | 994 | 4,908 | -1,341 | 72 | 4.0 | 288 |
| 28 | 3-Jul | 214 | 183 | 23,625 | 1,125 | 15,029 | -1,611 | 98 | 4.0 | 392 |
| 29 | 10-Jul | 109 | 89 | 22,734 | 1,872 | 36,177 | 23,089 | 105 | 5.0 | 525 |
| 30 | 17-Jul | 58 | 25 | 11,692 | 1,534 | 28,226 | 30,154 | 88 | 4.0 | 352 |
| 31 | 24-Jul | 67 | 8 | 4,601 | 711 | 9,545 | 14,344 | 71 | 2.0 | 142 |


| 32 | 31-Jul | 17 | 1 | 2,616 | 1,045 | 4,091 | 14,769 | 50 | 2.0 | 100 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 33 | 7-Aug | 14 | 1 | 4,371 | 1,780 | 2,893 | 6,372 | 47 | 4.0 | 188 |
| 34 | 14-Aug | 0 | 0 | 2,618 | 2,858 | 2,900 | -1,968 | 36 | 4.0 | 144 |
| 35 | 21-Aug | 2 | 0 | 675 | 2,663 | 292 | 1,003 | 30 | 4.0 | 120 |
| 36 | 28-Aug | 3 | 0 | 626 | 6,163 | 1,386 | 1,381 | 46 | 3.0 | 138 |
| 37 | 4-Sep | 2 | 0 | 321 | 3,213 | 137 | 1,375 | 56 | 3.0 | 168 |
| 38 | 11-Sep | 10 | 0 | 196 | 6,322 | 4 | -751 | 47 | 2.0 | 94 |
| 39 | 18-Sep | 6 | 0 | 13 | 185 | 0 | 222 | 27 | 3.0 | 81 |
| 40 | 25-Sep | 12 | 0 | 6 | -278 | 0 | 171 | 18 | 3.0 | 54 |
| 41 | 2-Oct | 0 | 0 | 1 | 2,307 | 0 | 244 | 13 | 3.0 | 39 |
| Total |  | 22,477 | 2,250 | 99,465 | 33,217 | 106,395 | 87,578 |  | 78.0 | 4,592 |

${ }^{\text {a }}$ Data not available to estimate contributions of pink salmon from Alaska hatcheries.

Appendix A. 8. Weekly stock proportions and stock-specific catch of sockeye salmon in the Alaskan District 108 commercial drift gillnet fishery, 2005.

| Week | Alaska | Canada | Stikine |  |  |  | Planted <br> Tahltan | CPUE of Stikine Fish |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Total |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 0.082 | 0.101 | 0.470 | 0.000 | 0.347 | 0.817 | 0.213 | 0.000 | 0.000 | 0.000 | 0.000 |
| 25 | 0.082 | 0.101 | 0.470 | 0.000 | 0.347 | 0.817 | 0.213 | 0.013 | 0.000 | 0.013 | 0.013 |
| 26 | 0.083 | 0.339 | 0.373 | 0.000 | 0.205 | 0.578 | 0.230 | 0.156 | 0.000 | 0.114 | 0.138 |
| 27 | 0.079 | 0.116 | 0.714 | 0.000 | 0.090 | 0.805 | 0.343 | 0.256 | 0.000 | 0.043 | 0.165 |
| 28 | 0.168 | 0.205 | 0.513 | 0.000 | 0.114 | 0.627 | 0.363 | 0.218 | 0.000 | 0.064 | 0.152 |
| 29 | 0.086 | 0.128 | 0.480 | 0.000 | 0.307 | 0.787 | 0.267 | 0.146 | 0.000 | 0.125 | 0.137 |
| 30 | 0.190 | 0.163 | 0.262 | 0.000 | 0.384 | 0.647 | 0.161 | 0.061 | 0.000 | 0.120 | 0.086 |
| 31 | 0.013 | 0.083 | 0.256 | 0.000 | 0.648 | 0.905 | 0.161 | 0.058 | 0.000 | 0.197 | 0.118 |
| 32 | 0.113 | 0.251 | 0.337 | 0.000 | 0.298 | 0.635 | 0.265 | 0.062 | 0.000 | 0.073 | 0.067 |
| 33 | 0.378 | 0.145 | 0.163 | 0.000 | 0.314 | 0.477 | 0.030 | 0.027 | 0.000 | 0.068 | 0.045 |
| 34 | 0.083 | 0.201 | 0.018 | 0.000 | 0.698 | 0.716 | 0.005 | 0.002 | 0.000 | 0.119 | 0.052 |
| 35 | 0.034 | 0.286 | 0.009 | 0.000 | 0.672 | 0.681 | 0.014 | 0.000 | 0.000 | 0.035 | 0.015 |
| 36 | 0.323 | 0.475 | 0.009 | 0.000 | 0.193 | 0.202 | 0.014 | 0.000 | 0.000 | 0.008 | 0.004 |
| 37 | 0.179 | 0.314 | 0.007 | 0.000 | 0.500 | 0.507 | 0.014 | 0.000 | 0.000 | 0.009 | 0.004 |
| 38 | 0.179 | 0.314 | 0.007 | 0.000 | 0.500 | 0.507 | 0.014 | 0.000 | 0.000 | 0.010 | 0.004 |
| 39 | 0.179 | 0.314 | 0.007 | 0.000 | 0.500 | 0.507 | 0.014 | 0.000 | 0.000 | 0.001 | 0.000 |
| 40 | 0.179 | 0.314 | 0.007 | 0.000 | 0.500 | 0.507 | 0.014 | 0.000 | 0.000 | 0.001 | 0.000 |
| 41 | 0.179 | 0.314 | 0.007 | 0.000 | 0.500 | 0.507 | 0.014 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 0.128 | 0.178 | 0.437 | 0.000 | 0.257 | 0.694 | 0.258 | 0.571 | 0.000 | 0.429 | 1.000 |
| Catch |  |  |  |  |  |  |  |  |  |  |  |
| 20-24 | 15 | 19 | 88 | 0 | 65 | 154 | 40 | 0.1 | 0.0 | 0.0 | 0.1 |
| 25 | 46 | 56 | 260 | 0 | 192 | 452 | 118 | 1.8 | 0.0 | 1.3 | 3.1 |
| 26 | 822 | 3,374 | 3,714 | 0 | 2,037 | 5,751 | 2,293 | 22.1 | 0.0 | 12.1 | 34.2 |
| 27 | 1,167 | 1,703 | 10,482 | 0 | 1,328 | 11,810 | 5,038 | 36.4 | 0.0 | 4.6 | 41.0 |
| 28 | 3,964 | 4,848 | 12,118 | 0 | 2,695 | 14,813 | 8,578 | 30.9 | 0.0 | 6.9 | 37.8 |
| 29 | 1,953 | 2,899 | 10,905 | 0 | 6,976 | 17,881 | 6,061 | 20.8 | 0.0 | 13.3 | 34.1 |
| 30 | 2,226 | 1,906 | 3,064 | 0 | 4,496 | 7,559 | 1,883 | 8.7 | 0.0 | 12.8 | 21.5 |
| 31 | 58 | 381 | 1,179 | 0 | 2,984 | 4,162 | 739 | 8.3 | 0.0 | 21.0 | 29.3 |
| 32 | 296 | 658 | 881 | 0 | 781 | 1,662 | 693 | 8.8 | 0.0 | 7.8 | 16.6 |
| 33 | 1,654 | 633 | 713 | 0 | 1,371 | 2,084 | 133 | 3.8 | 0.0 | 7.3 | 11.1 |
| 34 | 219 | 525 | 47 | 0 | 1,828 | 1,874 | 13 | 0.3 | 0.0 | 12.7 | 13.0 |
| 35 | 23 | 193 | 6 | 0 | 453 | 459 | 9 | 0.1 | 0.0 | 3.8 | 3.8 |
| 36 | 202 | 298 | 6 | 0 | 121 | 126 | 9 | 0.0 | 0.0 | 0.9 | 0.9 |
| 37 | 57 | 101 | 2 | 0 | 160 | 163 | 4 | 0.0 | 0.0 | 1.0 | 1.0 |
| 38 | 35 | 62 | 1 | 0 | 98 | 99 | 3 | 0.0 | 0.0 | 1.0 | 1.1 |
| 39 | 2 | 4 | 0 | 0 | 6 | 7 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 40 | 1 | 2 | 0 | 0 | 3 | 3 | 0 | 0.0 | 0.0 | 0.1 | 0.1 |
| 41 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 12,742 | 17,661 | 43,467 | 0 | 25,595 | 69,062 | 25,614 | 142.1 | 0.0 | 106.7 | 248.8 |

[^2]Appendix A. 9. Gillnet, troll, recreational, and subistence catch of Stikine River bound Chinook salmon in District 108, 2005.

| Week | Start <br> Date | Salmon Harvest |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Gillnet |  |  | Troll |  |  | Sport | Subsist. | Total |
|  |  | Catch | Permits | Days | Catch | Permits | Days |  |  |  |
| 19 | 1-May | 587 | 36 | 4 | 140 | 23 | 7 | 73 |  | 800 |
| 20 | 8-May | 934 | 53 | 4 | 123 | 20 | 7 | 270 |  | 1,327 |
| 21 | 15-May | 2,815 | 66 | 4 | 159 | 26 | 7 | 270 |  | 3,244 |
| 22 | 22-May | 2,108 | 76 | 2 | 1,020 | 45 | 7 | 845 |  | 3,973 |
| 23 | 29-May | 5,701 | 89 | 3 | 702 | 38 | 7 | 844 | 1 | 7,248 |
| 24 | 5-Jun | 7,875 | 104 | 4 | 809 | 40 | 7 | 285 | 1 | 8,970 |
| 25 | 12-Jun | 1,068 | 48 | 3 | 844 | 33 | 7 | 285 | 2 | 2,199 |
| 26 | 19-Jun | 416 | 42 | 4 | 482 | 21 | 7 | 65 | 16 | 979 |
| 27 | 26-Jun | 418 | 72 | 4 | 17 | 6 | 5 | 65 |  | 500 |
| 28 | 3-Jul | 157 | 98 | 4 |  |  |  |  |  | 157 |
| 29 | 10-Jul | 94 | 105 | 5 |  |  |  |  |  | 94 |
| Total |  | 22,173 |  | 41 | 4,296 |  | 61 | 3,002 | 20 | 29,491 |

Appendix A. 10. U.S. subsistence fishery harvest in the Stikine River, 2005.

| Week | Start <br> Date | Salmon Harvest |  |  |  |  |  |  | Permits Fished |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Dolly Varden |  |
|  |  | Large | Jacks |  |  |  |  |  |  |
| 21 | 15-May |  |  | 0 | 0 | 0 | 0 | 0 |  |
| 22 | 22-May |  |  | 2 | 0 | 0 | 0 | 0 |  |
| 23 | 29-May | 1 |  | 15 | 0 | 2 | 0 | 2 |  |
| 24 | 5-Jun | 1 |  | 1 | 0 | 2 | 0 | 0 |  |
| 25 | 12-Jun | 2 |  | 15 | 0 | 3 | 0 | 0 |  |
| 26 | 19-Jun | 16 |  | 121 | 0 | 16 | 6 | 2 |  |
| 27 | 26-Jun |  |  | 83 | 0 | 28 | 8 | 0 |  |
| 28 | 3-Jul |  |  | 11 | 0 | 14 | 6 | 0 |  |
| 29 | 10-Jul |  |  |  |  |  |  |  |  |
| 30 | 17-Jul |  |  | 3 | 1 | 4 | 2 | 0 |  |
| 31 | 24-Jul |  |  |  |  |  |  |  |  |
| 32 | 31-Jul |  |  |  |  |  |  |  |  |
| 33 | 7-Aug |  |  | 0 | 45 | 0 | 0 | 0 |  |
| 34 | 14-Aug |  |  |  |  |  |  |  |  |
| 35 | 21-Aug |  |  | 0 | 4 | 0 | 0 | 0 |  |
| 36 | 28-Aug |  |  | 1 | 2 | 0 | 0 | 0 |  |
| 37 | 4-Sep |  |  |  |  |  |  |  |  |
| 38 | 11-Sep |  |  | 0 | 1 | 0 | 0 | 0 |  |
| Total |  | 20 | 0 | 252 | 53 | 69 | 22 | 4 | 22 |

Appendix A. 11. Weekly salmon and steelhead trout catch and effort in the Canadian commercial fishery in the lower Stikine River, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead ${ }^{\text {b }}$ | Permits | Days | Permit <br> Days |
|  |  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 20 | 8-May | 287 | 2 | 0 | 0 | 0 | 0 | 0 | 8.33 | 3.0 | 25.0 |
| 21 | 15-May | 144 | 2 | 0 | 0 | 0 | 0 | 0 | 8.50 | 4.0 | 34.0 |
| 22 | 22-May | 1,595 | 46 | 0 | 0 | 0 | 0 | 0 | 12.00 | 5.0 | 60.0 |
| 23 | 29-May | 2,019 | 135 | 0 | 0 | 0 | 0 | 0 | 12.00 | 7.0 | 84.0 |
| 24 | 5-Jun | 3,344 | 264 | 5 | 0 | 0 | 0 | 0 | 12.00 | 5.0 | 60.0 |
| 25 | 12-Jun | 3,467 | 179 | 22 | 0 | 0 | 0 | 0 | 12.00 | 4.0 | 48.0 |
| 26 | 19-Jun | 3,381 | 157 | 650 | 0 | 0 | 0 | 0 | 12.00 | 4.0 | 48.0 |
| 27 | 26-Jun | 2,242 | 127 | 13,608 | 0 | 0 | 0 | 0 | 12.00 | 6.0 | 72.0 |
| 28 | 3-Jul | 1,507 | 193 | 15,647 | 0 | 0 | 0 | 0 | 12.00 | 7.0 | 84.0 |
| 29 | 10-Jul | 762 | 58 | 18,580 | 0 | 0 | 0 | 0 | 12.00 | 7.0 | 84.0 |
| 30 | 17-Jul | 240 | 18 | 13,131 | 4 | 0 | 0 | 0 | 12.00 | 7.0 | 84.0 |
| 31 | 24-Jul | 66 | 0 | 8,243 | 5 | 0 | 0 | 0 | 12.00 | 4.0 | 48.0 |
| 32 | 31-Jul | 16 | 0 | 7,256 | 112 | 0 | 21 | 0 | 11.75 | 4.0 | 47.0 |
| 33 | 7-Aug | 0 | 0 | 2,810 | 155 | 0 | 18 | 0 | 5.00 | 5.0 | 25.0 |
| Total |  | 19,070 | 1,181 | 79,952 | 276 | 0 | 39 | 0 |  | 72.0 | 803.0 |

${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack<660 mef or <735 fl.
${ }^{\text {b }}$ All steelhead were released

Appendix A. 12. Weekly sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery in the lower Stikine River, 2005.
Sex specific age compositions were calculated and the stock composition of the females sampled for egg diameters was expanded to the catch by age.

| Week | Proportion |  |  |  | Planted <br> Tahltan | Catch |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Sm. Egg | Tahltan ${ }^{\text {a }}$ | Tuya | Main |  | Tahltan ${ }^{\text {a }}$ | Tuya | Main | Wild | Planted |
| 24 | 0.963 | 0.926 | 0.037 | 0.037 | 0.415 | 5 | 0 | 0 | 3 | 2 |
| 25 | 0.963 | 0.926 | 0.037 | 0.037 | 0.415 | 20 | 1 | 1 | 11 | 9 |
| 26 | 0.920 | 0.897 | 0.023 | 0.080 | 0.415 | 583 | 15 | 52 | 313 | 270 |
| 27 | 0.899 | 0.877 | 0.022 | 0.101 | 0.399 | 11,930 | 303 | 1,375 | 6,505 | 5,425 |
| 28 | 0.881 | 0.866 | 0.015 | 0.119 | 0.366 | 13,547 | 231 | 1,869 | 7,823 | 5,724 |
| 29 | 0.834 | 0.812 | 0.022 | 0.166 | 0.377 | 15,079 | 418 | 3,083 | 8,070 | 7,009 |
| 30 | 0.762 | 0.736 | 0.026 | 0.238 | 0.341 | 9,659 | 345 | 3,127 | 5,177 | 4,482 |
| 31 | 0.641 | 0.634 | 0.007 | 0.359 | 0.289 | 5,224 | 57 | 2,962 | 2,841 | 2,383 |
| 32 | 0.520 | 0.513 | 0.007 | 0.480 | 0.285 | 3,725 | 48 | 3,483 | 1,656 | 2,069 |
| 33 | 0.401 | 0.395 | 0.007 | 0.599 | 0.285 | 1,109 | 19 | 1,682 | 308 | 801 |
| $34^{\text {c }}$ | 0.229 | 0.225 | 0.005 | 0.771 | 0.162 |  |  |  |  |  |
| $35^{\text {c }}$ | 0.136 | 0.136 | 0.000 | 0.864 | 0.099 |  |  |  |  |  |
| $36^{\text {c }}$ | 0.068 | 0.068 | 0.000 | 0.932 | 0.049 |  |  |  |  |  |
| $37^{\text {c }}$ | 0.000 | 0.000 | 0.000 | 1.000 | 0.000 |  |  |  |  |  |
| Total |  |  |  |  |  | 60,881 | 1,437 | 17,634 | 32,707 | 28,174 |
| Proportion |  |  |  |  |  | 0.761 | 0.018 | 0.221 | 0.409 | 0.352 |
| Week | Catch/Effort below Porcupine ${ }^{\text {b }}$ |  |  | Total CPUE | CPUE |  |  |  | Tahltan |  |
|  | Sockeye | Permit Day |  |  | Sm. Egg | Tahltan ${ }^{\text {a }}$ | Tuya | Main | Wild | Planted |
| 24 | 5 | 60 |  | 0.083 | 0.080 | 0.077 | 0.003 | 0.003 | 0.043 | 0.035 |
| 25 | 22 | 48 |  | 2.600 | 2.504 | 2.407 | 0.096 | 0.096 | 1.327 | 1.080 |
| 26 | 642 | 46 |  | 13.957 | 12.840 | 12.518 | 0.322 | 1.117 | 6.721 | 5.797 |
| 27 | 11,239 | 59 |  | 190.492 | 171.244 | 167.002 | 4.242 | 19.248 | 91.059 | 75.943 |
| 28 | 12,847 | 70 |  | 183.194 | 161.312 | 158.608 | 2.705 | 21.882 | 91.597 | 67.011 |
| 29 | 13,979 | 69 |  | 201.284 | 167.885 | 163.356 | 4.528 | 33.399 | 87.423 | 75.934 |
| 30 | 9,892 | 66 |  | 148.851 | 113.404 | 109.493 | 3.911 | 35.447 | 58.688 | 50.806 |
| 31 | 5,551 | 37 |  | 149.420 | 95.728 | 94.695 | 1.033 | 53.692 | 51.503 | 43.192 |
| 32 | 5,735 | 43 |  | 133.372 | 69.351 | 68.469 | 0.882 | 64.021 | 30.439 | 38.030 |
| 33 | 2,810 | 25 |  | 112.400 | 45.120 | 44.360 | 0.760 | 67.280 | 12.310 | 32.050 |
| $34^{\text {c }}$ |  |  |  | 52.961 | 12.147 | 11.904 | 0.243 | 40.814 |  |  |
| $35^{\text {c }}$ |  |  |  | 52.983 | 7.225 | 7.225 | 0.000 | 45.758 |  |  |
| $36^{\text {c }}$ |  |  |  | 15.458 | 1.054 | 1.054 | 0.000 | 14.404 |  |  |
| $37^{\text {c }}$ |  |  |  | 4.361 | 0.000 | 0.000 | 0.000 | 4.361 |  |  |
| Total | 62695 | 416.183 |  | 1261.33 | 859.814 | 841.092 | 18.722 | 401.520 | 431.067 | 389.842 |
| Proportion |  |  |  |  | 0.682 | 0.667 | 0.015 | 0.318 | 0.342 | 0.309 |

${ }^{\text {a }}$ Tahltan includes wild and thermally marked fish.
${ }^{\mathrm{b}}$ Catch and effort data used to generate cpue by stock group excluded the catch and effort above Porcupine.
${ }^{\text {c }}$ Used egg diameters from test fishery and a linear regression of CPUE in District 108 vs lower river commercial CPUE to estimate weeks after commercial fishery ended.

Appendix A. 13. Weekly salmon and steelhead trout catch and effort in the Canadian commercial fishery in the upper Stikine River, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead | Permits | Days | Permit Days |
|  |  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 29 | 10-Jul | 16 | 1 | 343 |  |  |  |  | 1.0 | 1.0 | 1.0 |
| 30 | 17-Jul | 12 | 0 | 131 |  |  |  |  | 1.0 | 7.0 | 7.0 |
| 31 | 24-Jul | 0 | 0 | 131 |  |  |  |  | 1.0 | 5.0 | 5.0 |
| Total |  | 28 | 1 | 605 | 0 | 0 | 0 | 0 | 3.0 | 13.0 | 13.0 |

${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$.

Appendix A. 14. Weekly salmon and steelhead trout catch and effort in the Canadian Aboriginal fishery located at Telegraph Creek, on the Stikine River, 2005.

| Week | Start Date | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead ${ }^{\text {b }}$ | Permits | Days | Permit Days |
|  |  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |
| 21 | 15-May | 15 | 5 | 0 | 0 | 0 | 0 | 0 | 3.67 | 3.0 | 11.0 |
| 22 | 22-May | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 1.43 | 7.0 | 10.0 |
| 23 | 29-May | 63 | 1 | 0 | 0 | 0 | 0 | 0 | 2.57 | 7.0 | 18.0 |
| 24 | 5-Jun | 53 | 2 | 2 | 0 | 0 | 0 | 0 | 3.00 | 7.0 | 21.0 |
| 25 | 12-Jun | 159 | 13 | 3 | 0 | 0 | 0 | 0 | 5.29 | 7.0 | 37.0 |
| 26 | 19-Jun | 134 | 2 | 4 | 0 | 0 | 0 | 0 | 2.86 | 7.0 | 20.0 |
| 27 | 26-Jun | 53 | 7 | 134 | 0 | 0 | 0 | 0 | 4.07 | 7.0 | 28.5 |
| 28 | 3-Jul | 62 | 14 | 896 | 0 | 0 | 0 | 0 | 9.50 | 7.0 | 66.5 |
| 29 | 10-Jul | 64 | 0 | 1,787 | 0 | 0 | 0 | 0 | 12.21 | 7.0 | 85.5 |
| 30 | 17-Jul | 121 | 6 | 1,549 | 0 | 0 | 0 | 0 | 13.50 | 7.0 | 94.5 |
| 31 | 24-Jul | 24 | 5 | 498 | 0 | 0 | 0 | 0 | 4.86 | 7.0 | 34.0 |
| 32 | 31-Jul | 0 | 0 | 202 | 0 | 0 | 0 | 0 | 2.00 | 1.0 | 2.0 |
| 33 | 7-Aug | 29 | 40 | 177 | 0 | 0 | 0 | 0 | 2.57 | 7.0 | 18.0 |
| 34 | 14-Aug | 0 | 0 | 81 | 0 | 0 | 0 | 0 | 3.0 | 3.0 | 9.0 |
| Total |  | 800 | 94 | 5,333 | 0 | 0 | 0 | 0 |  | 84 | 455.0 |

Tahltan Sport Fishery

|  | Start | Rod $^{\text {c }}$ | Chinook |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Week | Date | Hours | Retain | Release | Total |
| 27 | 26-Jun | 14 | 0 | 40 | 40 |
| 28 | 3-Jul | 58 | 6 | 37 | 43 |
| 29 | 10-Jul | n/a | 2 | 8 | 11 |
| 30 | 17-Jul | n/a | 2 | 24 | 25 |
| 31 | 24-Jul | 19 | 2 | 6 | 8 |
| 32 | 31-Jul | n/a | 0 | 3 | 3 |
| Total |  | 91 | 12 | 118 | 129 |

[^3]Appendix A. 15. Catch by stock and week for sockeye salmon harvested in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 2005.

| Week | Start Date | Stock |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | Wild | Planted |
| Proportion by stock for upper river fisheries |  |  |  |  |  |  |
| 24 | 5-Jun | 1.000 | 0.000 | 0.000 | 0.778 | 0.222 |
| 25 | 12-Jun | 1.000 | 0.000 | 0.000 | 0.778 | 0.222 |
| 26 | 19-Jun | 1.000 | 0.000 | 0.000 | 0.778 | 0.222 |
| $27^{\text {b }}$ | 26-Jun | 1.000 | 0.000 | 0.000 | 0.794 | 0.210 |
| 28 | 3-Jul | 0.887 | 0.000 | 0.112 | 0.769 | 0.118 |
| 29 | 10-Jul | 0.960 | 0.012 | 0.028 | 0.747 | 0.214 |
| 30 | 17-Jul | 0.992 | 0.008 | 0.000 | 0.737 | 0.256 |
| 31 | 24-Jul | 0.940 | 0.060 | 0.000 | 0.645 | 0.295 |
| 32 | 31-Jul | 0.901 | 0.037 | 0.066 | 0.634 | 0.267 |
| 33 | 7-Aug | 1.000 | 0.000 | 0.000 | 0.520 | 0.480 |
| 34 | 14-Aug | 1.000 | 0.000 | 0.000 | 0.333 | 0.667 |
| Total |  |  |  |  |  |  |
| Catch by stock for upper river commercial fishery |  |  |  |  |  |  |
| 29 | 10-Jul | 329 | 4 | 10 | 256 | 73 |
| 30 | 17-Jul | 130 | 1 | 0 | 97 | 33 |
| 31 | 24-Jul | 123 | 8 | 0 | 84 | 39 |
| Total |  | 582 | 13 | 10 | 437 | 145 |
| Catch by stock for upper river aboriginal fishery |  |  |  |  |  |  |
| 24 | 5-Jun | 2 | 0 | 0 | 2 | 0 |
| 25 | 12-Jun | 3 | 0 | 0 | 2 | 1 |
| 26 | 19-Jun | 4 | 0 | 0 | 3 | 1 |
| 27 | 26-Jun | 134 | 0 | 0 | 106 | 28 |
| 28 | 3-Jul | 795 | 0 | 101 | 689 | 106 |
| 29 | 10-Jul | 1,716 | 22 | 50 | 1,334 | 382 |
| 30 | 17-Jul | 1,537 | 12 | 0 | 1,141 | 396 |
| 31 | 24-Jul | 468 | 30 | 0 | 321 | 147 |
| 32 | 31-Jul | 182 | 7 | 13 | 128 | 54 |
| 33 | 7-Aug | 177 | 0 | 0 | 92 | 85 |
| 34 | 14-Aug | 81 | 0 | 0 | 27 | 54 |
| Total |  | 5,099 | 71 | 164 | 3,845 | 1,254 |

[^4]Appendix A. 16. Weekly salmon and steelhead trout catch and effort in the Canadian test fishery in the Stikine River, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  |  | \# Drifts/ <br> Set Hours |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead ${ }^{\text {b }}$ |  |
|  |  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |
| Drift gillnet |  |  |  |  |  |  |  |  |  |
| ${ }_{c}^{26}$ | 19-Jun | 13 | 8 | 72 | 0 | 0 | 0 | 0 | 28 |
| 31 | 24-Jul | 0 | 0 | 58 | 2 | 0 | 0 | 0 | 28 |
| 32 | 31-Jul | 0 | 0 | 51 | 5 | 0 | 0 | 0 | 28 |
| 33 | 7-Aug | 0 | 0 | 14 | 6 | 1 | 1 | 0 | 14 |
| 34 | 14-Aug | 0 | 0 | 51 | 20 | 2 | 6 | 4 | 42 |
| 35 | 21-Aug | 0 | 0 | 52 | 26 | 4 | 16 | 4 | 56 |
| 36 | 28-Aug | 0 | 0 | 13 | 66 | 0 | 4 | 6 | 42 |
| 37 | 4-Sep | 0 | 0 | 14 | 77 | 0 | 11 | 2 | 84 |
| 38 | 11-Sep | 1 | 0 | 9 | 70 | 2 | 5 | 3 | 98 |
| 39 | 18-Sep | 0 | 0 | 1 | 79 | 0 | 0 | 5 | 98 |
| 40 | 25-Sep | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 98 |
| 41 | 2-Oct | 0 | 0 | 4 | 35 | 0 | 0 | 1 | 87 |
| 42 | 9-Oct | 0 | 0 | 0 | 16 | 0 | 0 | 2 | 77 |
| Total |  | 14 | 8 | 339 | 444 | 9 | 43 | 27 | 780 |
| Set gillnet |  |  |  |  |  |  |  |  |  |
| 26 | 19-Jun | 15 | 12 | 273 | 0 | 0 | 0 | 0 | 48 |
| ${ }_{c} 27$ | 26-Jun | 2 | 1 | 63 | 0 | 0 | 0 | 0 | 12 |
| 31 | 24-Jul | 1 | 0 | 231 | 1 | 0 | 0 | 0 | 48 |
| 32 | 31-Jul | 1 | 0 | 289 | 10 | 0 | 0 | 0 | 60 |
| 33 | 7-Aug | 0 | 0 | 97 | 10 | 4 | 1 | 0 | 36 |
| 34 | 14-Aug | 0 | 0 | 124 | 43 | 25 | 18 | 10 | 60 |
| 35 | 21-Aug | 0 | 0 | 166 | 120 | 30 | 29 | 14 | 72 |
| 36 | 28-Aug | 0 | 0 | 69 | 87 | 3 | 2 | 21 | 60 |
| Total |  | 19 | 13 | 1,312 | 271 | 62 | 50 | 45 | 396 |
| Additional Drifts --- were not fished in 2005 |  |  |  |  |  |  |  |  |  |
| Total Test Fishery Catch |  |  |  |  |  |  |  |  |  |
| 26 | 19-Jun | 28 | 20 | 345 | 0 | 0 | 0 | 0 | 28 |
| $27$ | 26-Jun | 2 | 1 | 63 | 0 | 0 | 0 | 0 | 0 |
| 31 | 24-Jul | 1 | 0 | 289 | 3 | 0 | 0 | 0 | 28 |
| 32 | 31-Jul | 1 | 0 | 340 | 15 | 0 | 0 | 0 | 28 |
| 33 | 7-Aug | 0 | 0 | 111 | 16 | 5 | 2 | 0 | 14 |
| 34 | 14-Aug | 0 | 0 | 175 | 63 | 27 | 24 | 14 | 42 |
| 35 | 21-Aug | 0 | 0 | 218 | 146 | 34 | 45 | 18 | 56 |
| 36 | 28-Aug | 0 | 0 | 82 | 153 | 3 | 6 | 27 | 42 |
| 37 | 4-Sep | 0 | 0 | 14 | 77 | 0 | 11 | 2 | 84 |
| 38 | 11-Sep | 1 | 0 | 9 | 70 | 2 | 5 | 3 | 98 |
| 39 | 18-Sep | 0 | 0 | 1 | 79 | 0 | 0 | 5 | 98 |
| 40 | 25-Sep | 0 | 0 | 0 | 42 | 0 | 0 | 0 | 98 |
| 41 | 2-Oct | 0 | 0 | 4 | 35 | 0 | 0 | 1 | 87 |
| 42 | 9-Oct | 0 | 0 | 0 | 16 | 0 | 0 | 2 | 77 |
| Total |  | 33 | 21 | 1,651 | 715 | 71 | 93 | 72 | 1,176 |
| ${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$. <br> ${ }^{\mathrm{b}}$ All steelhead were released live. <br> ${ }^{\text {c }}$ no drift fishery weeks 27-30 and no set fishery weeks 28-30 due to extended commercial fishery. |  |  |  |  |  |  |  |  |  |

Appendix A. 17. Weekly catch, CPUE, and migratory timing of Tahltan, Tuya, and mainstem sockeye stocks in the Stikine test fishery, 2005.

| Sex specific age compositions were calculated and the smoothed stock compositions of the females sampled for egg diameters was expanded to the catch by age. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Proportions |  |  | Catch |  |  | CPUE |  |  |  | Migratory Timing |  |  |
| Week | Tahl. | Tuya | Main | Tahl. | Tuya | Main | Tahl. | Tuya | Main | Total | Tahl. | Tuya | Main |
| Drift gillnet |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | 0.835 | 0.006 | 0.159 | 60 | 0 | 11 | 2.147 | 0.015 | 0.410 | 2.571 | 0.210 | 0.001 | 0.040 |
| ${ }^{27}$ | 0.810 | 0.000 | 0.190 |  |  |  |  |  |  |  |  |  |  |
| 31 | 0.668 | 0.003 | 0.329 | 39 | 0 | 19 | 1.383 | 0.007 | 0.681 | 2.071 | 0.135 | 0.001 | 0.067 |
| 32 | 0.576 | 0.006 | 0.418 | 29 | 0 | 21 | 1.050 | 0.011 | 0.761 | 1.821 | 0.103 | 0.001 | 0.074 |
| 33 | 0.423 | 0.018 | 0.559 | 6 | 0 | 8 | 0.423 | 0.018 | 0.559 | 1.000 | 0.041 | 0.002 | 0.055 |
| 34 | 0.320 | 0.000 | 0.680 | 16 | 0 | 35 | 0.389 | 0.000 | 0.826 | 1.214 | 0.038 | 0.000 | 0.081 |
| 35 | 0.225 | 0.005 | 0.771 | 12 | 0 | 40 | 0.209 | 0.004 | 0.716 | 0.929 | 0.020 | 0.000 | 0.070 |
| 36 | 0.136 | 0.000 | 0.864 | 2 | 0 | 11 | 0.042 | 0.000 | 0.267 | 0.310 | 0.004 | 0.000 | 0.026 |
| 37 | 0.136 | 0.000 | 0.864 | 2 | 0 | 12 | 0.023 | 0.000 | 0.144 | 0.167 | 0.002 | 0.000 | 0.014 |
| 38 | 0.136 | 0.000 | 0.864 | 1 | 0 | 8 | 0.013 | 0.000 | 0.079 | 0.092 | 0.001 | 0.000 | 0.008 |
| 39 | 0.136 | 0.000 | 0.864 | 0 | 0 | 1 | 0.001 | 0.000 | 0.009 | 0.010 | 0.000 | 0.000 | 0.001 |
| 40 | 0.136 | 0.000 | 0.864 | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 41 | 0.136 | 0.000 | 0.864 | 1 | 0 | 3 | 0.006 | 0.000 | 0.040 | 0.046 | 0.001 | 0.000 | 0.004 |
| Total |  |  |  | 168 | 1 | 170 | 5.686 | 0.055 | 4.491 | 10.231 |  |  |  |
| Proportion |  |  |  | 0.495 | 0.004 | 0.501 |  |  |  |  | 0.556 | 0.005 | 0.439 |
| Set gill |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | 0.835 | 0.006 | 0.159 | 228 | 2 | 44 | 4.748 | 0.033 | 0.907 | 5.688 | 0.165 | 0.001 | 0.032 |
| ${ }_{2}{ }^{2}$ | 0.810 | 0.000 | 0.190 | 51 | 0 | 12 | 4.250 | 0.000 | 1.000 | 5.250 | 0.148 | 0.000 | 0.035 |
| 31 | 0.668 | 0.003 | 0.329 | 154 | 1 | 76 | 3.214 | 0.017 | 1.582 | 4.813 | 0.112 | 0.001 | 0.055 |
| 32 | 0.576 | 0.006 | 0.418 | 167 | 2 | 121 | 2.777 | 0.028 | 2.012 | 4.817 | 0.096 | 0.001 | 0.070 |
| 33 | 0.423 | 0.018 | 0.559 | 41 | 2 | 54 | 1.141 | 0.049 | 1.505 | 2.694 | 0.040 | 0.002 | 0.052 |
| 34 | 0.320 | 0.000 | 0.680 | 40 | 0 | 84 | 0.661 | 0.000 | 1.405 | 2.067 | 0.023 | 0.000 | 0.049 |
| 35 | 0.225 | 0.005 | 0.771 | 37 | 1 | 128 | 0.518 | 0.011 | 1.777 | 2.306 | 0.018 | 0.000 | 0.062 |
| 36 | 0.136 | 0.000 | 0.864 | 9 | 0 | 60 | 0.157 | 0.000 | 0.993 | 1.150 | 0.005 | 0.000 | 0.035 |
| Total |  |  |  | 727 | 7 | 578 | 17.466 | 0.137 | 11.181 | 28.783 |  |  |  |
| Proportion |  |  |  | 0.554 | 0.005 | 0.441 |  |  |  |  | 0.607 | 0.005 | 0.388 |

Additional Drifts ---- were not fished in 2005.

| Total Test Fishery Catches |  |  |  |  |  |  | Tahltan |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Wild | Plant | Wild | Plant |
| 26 | 0.835 | 0.006 | 0.159 | 288 | 2 | 55 | 0.649 | 0.186 | 224 | 64 |
| 27 | 0.810 | 0.000 | 0.190 | 51 | 0 | 12 | 0.413 | 0.397 | 26 | 25 |
| 31 | 0.668 | 0.003 | 0.329 | 193 | 1 | 95 | 0.405 | 0.263 | 117 | 76 |
| 32 | 0.576 | 0.006 | 0.418 | 196 | 2 | 142 | 0.332 | 0.244 | 113 | 83 |
| 33 | 0.423 | 0.018 | 0.559 | 47 | 2 | 62 | 0.207 | 0.216 | 23 | 24 |
| 34 | 0.320 | 0.000 | 0.680 | 56 | 0 | 119 | 0.166 | 0.154 | 29 | 27 |
| 35 | 0.225 | 0.005 | 0.771 | 49 | 1 | 168 | 0.119 | 0.106 | 26 | 23 |
| 36 | 0.136 | 0.000 | 0.864 | 11 | 0 | 71 | 0.091 | 0.045 | 7 | 4 |
| 37 | 0.136 | 0.000 | 0.864 | 2 | 0 | 12 | 0.091 | 0.045 | 1 | 1 |
| 38 | 0.136 | 0.000 | 0.864 | 1 | 0 | 8 | 0.091 | 0.045 | 1 | 0 |
| 39 | 0.136 | 0.000 | 0.864 | 0 | 0 | 1 | 0.091 | 0.045 | 0 | 0 |
| 40 | 0.136 | 0.000 | 0.864 | 0 | 0 | 0 | 0.091 | 0.045 | 0 | 0 |
| 41 | 0.136 | 0.000 | 0.864 | 1 | 0 | 3 | 0.091 | 0.045 | 0 | 0 |
| Total Proportion |  |  |  | 895 | 8 | 748 |  |  | 568 | 327 |
|  |  |  |  | 0.542 | 0.005 | 0.453 |  |  |  |  |

${ }^{\text {a }}$ no drift fishery weeks 27-30 and no set fishery weeks 28 - 30 due to extended commercial fishery.

Appendix A. 18. Daily counts of adult sockeye salmon passing through Tahltan Lake weir, 2005.


Appendix A. 19. Daily counts of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 2005.

| Date | Count | Cumulative |  | Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Count | Percent |  |  | Count | Percent |
| 6-May | 0 | 0 | 0.0 | 30-May | 11,761 | 1,784,302 | 96.8 |
| 7-May | 5 | 5 | 0.0 | 31-May | 8,987 | 1,793,289 | 97.3 |
| 8-May | 2 | 7 | 0.0 | 1-Jun | 3,106 | 1,796,395 | 97.4 |
| 9-May | 6 | 13 | 0.0 | 2-Jun | 16,554 | 1,812,949 | 98.3 |
| 10-May | 70 | 83 | 0.0 | 3-Jun | 4,822 | 1,817,771 | 98.6 |
| 11-May | 9,681 | 9,764 | 0.5 | 4-Jun | 2,126 | 1,819,897 | 98.7 |
| 12-May | 108,119 | 117,883 | 6.4 | 5-Jun | 3,562 | 1,823,459 | 98.9 |
| 13-May | 491,005 | 608,888 | 33.0 | 6-Jun | 1,576 | 1,825,035 | 99.0 |
| 14-May | 58,494 | 667,382 | 36.2 | 7-Jun | 5,930 | 1,830,965 | 99.3 |
| 15-May | 883 | 668,265 | 36.2 | 8-Jun | 2,740 | 1,833,705 | 99.5 |
| 16-May | 239,658 | 907,923 | 49.2 | 9-Jun | 1,781 | 1,835,486 | 99.5 |
| 17-May | 112,121 | 1,020,044 | 55.3 | 10-Jun | 958 | 1,836,444 | 99.6 |
| 18-May | 21,470 | 1,041,514 | 56.5 | 11-Jun | 240 | 1,836,684 | 99.6 |
| 19-May | 33,049 | 1,074,563 | 58.3 | 12-Jun | 860 | 1,837,544 | 99.7 |
| 20-May | 103,402 | 1,177,965 | 63.9 | 13-Jun | 555 | 1,838,099 | 99.7 |
| 21-May | 261,314 | 1,439,279 | 78.1 | 14-Jun | 172 | 1,838,271 | 99.7 |
| 22-May | 104,762 | 1,544,041 | 83.7 | 15-Jun | 72 | 1,838,343 | 99.7 |
| 23-May | 23,640 | 1,567,681 | 85.0 | 16-Jun | 455 | 1,838,798 | 99.7 |
| 24-May | 42,485 | 1,610,166 | 87.3 | 17-Jun | 3,657 | 1,842,455 | 99.9 |
| 25-May | 74,675 | 1,684,841 | 91.4 | 18-Jun | 951 | 1,843,406 | 100.0 |
| 26-May | 45,823 | 1,730,664 | 93.9 | 19-Jun | 353 | 1,843,759 | 100.0 |
| 27-May | 7,190 | 1,737,854 | 94.3 | 20-Jun | 45 | 1,843,804 | 100.0 |
| 28-May | 30,236 | 1,768,090 | 95.9 |  |  |  |  |
| 29-May | 4,451 | 1,772,541 | 96.1 | Wild |  | 943,929 |  |
|  |  |  |  | Hatchery |  | 899,875 |  |
| Total |  |  |  |  |  | 1,843,804 |  |

Appendix A. 20. Daily counts of adult Chinook salmon passing through Little Tahltan weir, 2005

| Date | Large Chinook |  |  | Chinook Jacks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Cumulative |  | Count | Cumulative |  |
|  |  | Count | Percent |  | Count | Percent |
| 18-Jun Weir Installed |  |  |  |  |  |  |
| 19-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 20-Jun | 0 | 0 | 0.0 | 0 | 0 | 0.0 |
| 21-Jun | 3 | 3 | 0.0 | 0 | 0 | 0.0 |
| 22-Jun | 35 | 38 | 0.5 | 0 | 0 | 0.0 |
| 23-Jun | 1 | 39 | 0.5 | 0 | 0 | 0.0 |
| 24-Jun | 2 | 41 | 0.6 | 0 | 0 | 0.0 |
| 25-Jun | 1 | 42 | 0.6 | 0 | 0 | 0.0 |
| 26-Jun | 45 | 87 | 1.2 | 0 | 0 | 0.0 |
| 27-Jun | 86 | 173 | 2.3 | 0 | 0 | 0.0 |
| 28-Jun | 133 | 306 | 4.1 | 0 | 0 | 0.0 |
| 29-Jun | 277 | 583 | 7.9 | 5 | 5 | 2.2 |
| 30-Jun | 134 | 717 | 9.7 | 0 | 5 | 2.2 |
| 1-Jul | 25 | 742 | 10.0 | 4 | 9 | 3.9 |
| 2-Jul | 105 | 847 | 11.5 | 2 | 11 | 4.8 |
| 3-Jul | 65 | 912 | 12.3 | 4 | 15 | 6.5 |
| 4-Jul | 112 | 1,024 | 13.9 | 2 | 17 | 7.4 |
| 5-Jul | 180 | 1,204 | 16.3 | 1 | 18 | 7.8 |
| 6-Jul | 121 | 1,325 | 17.9 | 3 | 21 | 9.1 |
| 7-Jul | 101 | 1,426 | 19.3 | 2 | 23 | 10.0 |
| 8-Jul | 194 | 1,620 | 21.9 | 4 | 27 | 11.7 |
| 9-Jul | 86 | 1,706 | 23.1 | 2 | 29 | 12.6 |
| 10-Jul | 0 | 1,706 | 23.1 | 0 | 29 | 12.6 |
| 11-Jul | 144 | 1,850 | 25.0 | 3 | 32 | 13.9 |
| 12-Jul | 160 | 2,010 | 27.2 | 9 | 41 | 17.7 |
| 13-Jul | 492 | 2,502 | 33.9 | 19 | 60 | 26.0 |
| 14-Jul | 170 | 2,672 | 36.2 | 2 | 62 | 26.8 |
| 15-Jul | 103 | 2,775 | 37.6 | 3 | 65 | 28.1 |
| 16-Jul | 104 | 2,879 | 39.0 | 11 | 76 | 32.9 |
| 17-Jul | 361 | 3,240 | 43.9 | 11 | 87 | 37.7 |
| 18-Jul | 95 | 3,335 | 45.1 | 9 | 96 | 41.6 |
| 19-Jul | 106 | 3,441 | 46.6 | 1 | 97 | 42.0 |
| 20-Jul | 113 | 3,554 | 48.1 | 5 | 102 | 44.2 |
| 21-Jul | 32 | 3,586 | 48.5 | 1 | 103 | 44.6 |
| 22-Jul | 124 | 3,710 | 50.2 | 5 | 108 | 46.8 |
| 23-Jul | 265 | 3,975 | 53.8 | 11 | 119 | 51.5 |
| 24-Jul | 197 | 4,172 | 56.5 | 12 | 131 | 56.7 |
| 25-Jul | 147 | 4,319 | 58.5 | 2 | 133 | 57.6 |
| 26-Jul | 335 | 4,654 | 63.0 | 12 | 145 | 62.8 |
| 27-Jul | 313 | 4,967 | 67.2 | 19 | 164 | 71.0 |
| 28-Jul | 869 | 5,836 | 79.0 | 31 | 195 | 84.4 |
| 29-Jul | 62 | 5,898 | 79.8 | 3 | 198 | 85.7 |
| 30-Jul | 142 | 6,040 | 81.8 | 3 | 201 | 87.0 |
| 31-Jul | 145 | 6,185 | 83.7 | 1 | 202 | 87.4 |
| 1-Aug | 83 | 6,268 | 84.9 | 2 | 204 | 88.3 |
| 2-Aug | 78 | 6,346 | 85.9 | 0 | 204 | 88.3 |
| 3-Aug | 135 | 6,481 | 87.7 | 3 | 207 | 89.6 |
| 4-Aug | 174 | 6,655 | 90.1 | 4 | 211 | 91.3 |
| 5-Aug | 323 | 6,978 | 94.5 | 3 | 214 | 92.6 |
| 6-Aug | 161 | 7,139 | 96.6 | 9 | 223 | 96.5 |
| 7-Aug | 133 | 7,272 | 98.4 | 6 | 229 | 99.1 |
| 8-Aug | 115 | 7,387 | 100.0 | 2 | 231 | 100.0 |
| Total Counted |  | 7,387 |  |  | 231 |  |
| Broodstock |  | 0 |  |  |  |  |
| Escapement |  | 7,387 |  |  | 231 |  |

[^5]Appendix B. 1. Salmon catch and effort in the Alaskan District 106 commercial drift gillnet fisheries, 1960-2005.
Effort may be less than the sum of effort from 106-41/42 and 106-30 since some boats fished in more than one subdistrictt.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink ${ }^{\text {a }}$ | Chum | Steelhead | Permit Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ |
|  | Large | Jack |  |  |  |  |  |  |  |
| 1960 | 46 |  | 10,354 | 336 | 1,246 | 502 |  | 369 | 17.0 |
| 1961 | 416 |  | 20,614 | 14,934 | 124,236 | 64,479 |  | 1,737 | 57.0 |
| 1962 | 1,308 |  | 47,033 | 42,276 | 256,620 | 59,119 |  | 4,693 | 52.0 |
| 1963 | 1,560 |  | 80,767 | 52,103 | 514,596 | 90,103 |  | 5,589 | 51.0 |
| 1964 | 2,082 |  | 76,541 | 64,654 | 443,086 | 44,218 |  | 5,383 | 49.0 |
| 1965 | 1,802 |  | 87,749 | 75,728 | 625,848 | 27,658 |  | 4,507 | 50.8 |
| 1966 | 1,665 |  | 89,847 | 62,823 | 400,932 | 40,756 |  | 4,978 | 74.3 |
| 1967 | 1,318 |  | 86,385 | 17,670 | 91,609 | 26,370 |  | 2,511 | 27.0 |
| 1968 | 1,316 |  | 64,671 | 67,151 | 169,107 | 61,366 |  | 4,965 | 52.0 |
| 1969 | 877 |  | 70,318 | 10,280 | 197,073 | 10,903 | 559 | 2,112 | 31.0 |
| 1970 | 785 |  | 42,778 | 35,470 | 94,892 | 32,231 | 473 | 1,863 | 41.0 |
| 1971 | 1,336 |  | 53,202 | 48,085 | 527,975 | 37,680 | 585 | 2,774 | 47.0 |
| 1972 | 2,573 |  | 101,338 | 93,427 | 89,467 | 72,382 | 692 | 3,321 | 41.0 |
| 1973 | 1,931 |  | 71,995 | 38,447 | 303,621 | 87,729 | 500 | 3,300 | 26.0 |
| 1974 | 1,926 |  | 57,346 | 45,651 | 104,403 | 50,309 | 335 | 2,179 | 28.0 |
| 1975 | 2,587 |  | 32,051 | 30,962 | 203,015 | 23,968 | 222 | 1,649 | 18.0 |
| 1976 | 384 |  | 15,481 | 19,126 | 139,439 | 6,868 | 128 | 827 | 22.0 |
| 1977 | 671 |  | 67,023 | 8,401 | 419,107 | 13,300 | 65 | 1,381 | 28.0 |
| 1978 | 274 |  | 41,574 | 55,578 | 224,715 | 16,545 | 203 | 1,510 | 27.1 |
| 1979 | 2,720 |  | 66,373 | 28,083 | 648,212 | 35,507 | 319 | 2,703 | 31.4 |
| 1980 | 580 |  | 107,422 | 16,666 | 45,662 | 26,291 | 91 | 1,324 | 25.0 |
| 1981 | 1,565 |  | 182,001 | 22,614 | 437,573 | 34,296 | 187 | 2,926 | 26.0 |
| 1982 | 1,648 |  | 193,798 | 31,481 | 25,533 | 18,646 | 282 | 1,700 | 22.5 |
| 1983 | 567 |  | 48,842 | 62,442 | 208,290 | 20,144 | 261 | 1,453 | 31.4 |
| 1984 | 892 |  | 91,653 | 41,359 | 343,255 | 70,258 | 498 | 1,890 | 31.4 |
| 1985 | 1,687 |  | 264,987 | 91,188 | 584,953 | 69,673 | 1,003 | 2,673 | 31.4 |
| 1986 | 1,704 |  | 145,709 | 194,912 | 308,484 | 82,289 | 1,314 | 3,510 | 31.4 |
| 1987 | 836 |  | 136,427 | 34,534 | 243,482 | 42,025 | 489 | 1,767 | 19.5 |
| 1988 | 1,104 |  | 92,529 | 13,103 | 69,559 | 69,620 | 587 | 1,495 | 18.5 |
| 1989 | 1,544 |  | 192,734 | 92,385 | 1,101,194 | 67,351 | 394 | 3,222 | 34.0 |
| 1990 | 2,108 |  | 185,805 | 164,235 | 319,186 | 73,232 | 960 | 3,502 | 34.0 |
| 1991 | 2,055 |  | 144,104 | 198,160 | 133,566 | 124,630 | 198 | 3,620 | 39.0 |
| 1992 | 1,355 |  | 203,155 | 298,935 | 94,248 | 140,468 | 187 | 4,230 | 40.0 |
| 1993 | 992 |  | 205,955 | 231,038 | 537,960 | 134,601 | 125 | 4,353 | 38.0 |
| 1994 | 754 |  | 211,048 | 267,862 | 179,994 | 176,026 | 95 | 4,468 | 43.0 |
| 1995 | 951 |  | 207,298 | 170,561 | 448,163 | 300,078 | 110 | 3,657 | 34.0 |
| 1996 | 644 |  | 311,100 | 223,640 | 188,035 | 283,290 | 130 | 5,290 | 46.0 |
| 1997 | 1,075 |  | 168,518 | 77,550 | 789,051 | 186,456 |  | 3,668 | 39.0 |
| 1998 | 518 |  | 113,435 | 273,197 | 502,655 | 332,022 |  | 4,398 | 43.0 |
| 1999 | 518 |  | 104,878 | 203,262 | 490,716 | 448,367 |  | 4,943 | 50.0 |
| 2000 | 1,220 |  | 90,076 | 96,207 | 156,619 | 199,836 |  | 2,409 | 33.0 |
| 2001 | 1,057 |  | 164,013 | 188,465 | 825,330 | 282,910 |  | 3,854 | 50.0 |
| 2002 | 446 |  | 56,135 | 226,560 | 82,951 | 112,541 |  | 5,299 | 47.0 |
| 2003 | 422 |  | 116,904 | 212,057 | 470,697 | 300,253 |  | 6,744 | 59.0 |
| 2004 | 2,735 |  | 116,259 | 138,631 | 245,237 | 110,574 |  | 2,736 | 55.0 |
| Averages |  |  |  |  |  |  |  |  |  |
| 60-04 | 1,257 |  | 111,961 | 97,383 | 320,258 | 100,175 | 393 | 3,188 | 37.6 |
| 95-04 | 959 |  | 144,862 | 181,013 | 419,945 | 255,633 | 120 | 4,300 | 45.6 |
| 2005 | 1,526 | 46 | 110,192 | 114,440 | 461,187 | 198,564 |  | 2,964 | 53.0 |


| Alaska Hatchery Contribution |  |  |  |  |
| :--- | :---: | ---: | ---: | ---: |
| 1989 | 512 |  | 5,029 | 20,277 |
| 1990 | 1,009 | 33 | 50,354 | 27,259 |
| 1991 | 608 | 182 | 64,067 | 47,731 |
| 1992 | 658 | 55 | 112,824 | 47,503 |
| 1993 | 305 | 53 | 77,914 | 42,206 |
| 1994 | 402 | 1,580 | 36,805 | 67,111 |
| 1995 | 353 | 4,548 | 27,333 | 72,417 |
| 1996 | 324 | 5,799 | 55,218 | 108,764 |
| 1997 | 369 | 1,435 | 19,479 | 79,990 |
| 1998 | 290 | 706 | 101,129 | 118,096 |
| 1999 | 189 | 2,257 | 82,828 | 211,082 |
| 2000 | 790 | 1,134 | 48,169 | 71,306 |
| 2001 | 446 | 340 | 67,378 | 99,224 |


| 2002 | 161 |  | 0 | 78,485 |  | 23,509 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2003 | 192 |  | 0 | 93,454 |  | 105,372 |  |  |  |
| 2004 | 1,281 |  | 0 | 49,501 |  | 34,642 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |
| 89-04 | 493 |  | 1,208 | 60,623 |  | 73,531 |  |  |  |
| 2005 | 657 | 0 | 0 | 30,727 |  | 53,795 |  |  |  |
| Catches not including Alaska hatchery contributions |  |  |  |  |  |  |  |  |  |
| 1989 | 1,032 |  | 192,734 | 87,356 | 1,101,194 | 47,074 | 394 | 3,222 | 34.0 |
| 1990 | 1,099 |  | 185,772 | 113,881 | 319,186 | 45,973 | 960 | 3,502 | 34.0 |
| 1991 | 1,447 |  | 143,922 | 134,093 | 133,566 | 76,899 | 198 | 3,620 | 39.0 |
| 1992 | 697 |  | 203,100 | 186,111 | 94,248 | 92,965 | 187 | 4,230 | 40.0 |
| 1993 | 687 |  | 205,902 | 153,124 | 537,960 | 92,395 | 125 | 4,353 | 38.0 |
| 1994 | 352 |  | 209,468 | 231,057 | 179,994 | 108,915 | 95 | 4,468 | 43.0 |
| 1995 | 598 |  | 202,750 | 143,228 | 448,163 | 227,661 | 110 | 3,657 | 34.0 |
| 1996 | 320 |  | 305,301 | 168,422 | 188,035 | 174,526 | 130 | 5,290 | 46.0 |
| 1997 | 706 |  | 167,083 | 58,071 | 789,051 | 106,466 | 0 | 3,668 | 39.0 |
| 1998 | 228 |  | 112,729 | 172,068 | 502,655 | 213,926 | 0 | 4,398 | 43.0 |
| 1999 | 329 |  | 102,621 | 120,434 | 490,716 | 237,285 | 0 | 4,943 | 50.0 |
| 2000 | 430 |  | 88,942 | 48,038 | 156,619 | 128,530 | 0 | 2,409 | 33.0 |
| 2001 | 611 |  | 163,673 | 121,087 | 825,330 | 183,686 | 0 | 3,854 | 50.0 |
| 2002 | 285 |  | 56,135 | 148,075 | 82,951 | 89,032 | 0 | 5,299 | 47.0 |
| 2003 | 230 |  | 116,904 | 118,603 | 470,697 | 194,881 | 0 | 6,744 | 59.0 |
| 2004 | 1,454 |  | 116,259 | 89,130 | 245,237 | 75,932 | 0 | 2,736 | 55.0 |
| Averages |  |  |  |  |  |  |  |  |  |
| 89-04 | 657 |  | 160,831 | 130,799 | 410,350 | 131,009 | 137 | 4,150 | 42.8 |
| 2005 | 869 | 46 | 110,192 | 83,713 | 461,187 | 144,769 | 0 | 2,964 | 53.0 |

${ }^{\text {a }}$ Data not available to estimate contributions of pink salmon from Alaska hatcheries.

Appendix B. 2. Stock proportions and catches of sockeye salmon in the Alaskan District 106 commercial drift gillnet fisheries, 1982-2005.

| Catches do not include Blind Slough terminal area harvest. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  | Tahltan |  |
| Year | Alaska | Canada | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 83-04 | 0.611 | 0.263 | 0.067 |  | 0.034 | 0.127 |  |  |
| 95-04 | 0.586 | 0.248 | 0.079 | 0.056 | 0.032 | 0.166 | 0.055 | 0.024 |
| 2005 | 0.474 | 0.317 | 0.182 | 0.000 | 0.027 | 0.209 | 0.088 | 0.094 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 83-04 | 88,856 | 44,298 | 11,381 |  | 5,500 | 20,099 |  |  |
| 95-04 | 83,595 | 41,932 | 14,782 | 7,079 | 4,134 | 25,352 | 10,935 | 3,847 |
| 2005 | 52,192 | 34,952 | 20,080 | 0 | 2,968 | 23,048 | 9,724 | 10,356 |

${ }^{\mathrm{a}}$ Tahltan includes wild and thermally marked fish.

Appendix B. 3. Salmon catch and effort in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial drift gillnet fishery, 1960-2005.

| Year | Catch |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Permit Days | $\begin{aligned} & \hline \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Chinook | Sockeye | Coho | Pink | Chum | Steelhead |  |  |
| 1960 | 24 | 9,005 | 277 | 1,103 | 362 |  | 251 | 17.0 |
| 1961 | 75 | 9,488 | 1,851 | 26,435 | 9,657 |  | 359 | 48.0 |
| 1962 | 131 | 19,692 | 6,548 | 45,987 | 9,544 |  | 811 | 44.0 |
| 1963 | 310 | 45,305 | 15,727 | 135,503 | 50,380 |  | 2,311 | 47.0 |
| 1964 | 316 | 52,943 | 27,338 | 183,402 | 22,913 |  | 2,344 | 49.0 |
| 1965 | 679 | 58,736 | 30,570 | 162,271 | 15,763 |  | 1,658 | 50.8 |
| 1966 | 690 | 65,721 | 30,792 | 96,287 | 24,235 |  | 2,080 | 74.3 |
| 1967 | 668 | 60,148 | 10,573 | 52,284 | 19,626 |  | 1,463 | 27.0 |
| 1968 | 1,010 | 50,212 | 46,111 | 82,012 | 39,001 |  | 2,997 | 52.0 |
| 1969 | 607 | 46,258 | 6,094 | 92,075 | 6,393 | 482 | 1,147 | 31.0 |
| 1970 | 420 | 26,812 | 15,153 | 29,102 | 18,092 | 366 | 905 | 41.0 |
| 1971 | 671 | 33,991 | 24,727 | 283,739 | 19,329 | 363 | 1,619 | 50.0 |
| 1972 | 1,747 | 74,745 | 60,827 | 40,644 | 46,511 | 515 | 2,152 | 41.0 |
| 1973 | 1,540 | 55,254 | 24,921 | 160,297 | 62,486 | 375 | 2,253 | 26.0 |
| 1974 | 1,342 | 46,760 | 28,889 | 57,296 | 38,045 | 238 | 1,579 | 28.0 |
| 1975 | 467 | 19,319 | 4,650 | 29,340 | 7,762 | 112 | 515 | 17.0 |
| 1976 | 237 | 9,319 | 10,367 | 20,251 | 2,301 | 71 | 366 | 19.0 |
| 1977 | 202 | 47,408 | 1,819 | 51,038 | 4,240 | 33 | 447 | 17.0 |
| 1978 | 274 | 1,422 | 26,762 | 9,546 | 3,142 | 70 | 389 | 26.5 |
| 1979 | 458 | 34,807 | 12,087 | 176,395 | 16,816 | 154 | 952 | 25.0 |
| 1980 | 205 | 48,434 | 10,894 | 17,068 | 15,176 | 39 | 596 | 16.0 |
| 1981 | 598 | 132,293 | 13,161 | 220,194 | 25,682 | 156 | 1,732 | 25.0 |
| 1982 | 648 | 121,563 | 21,193 | 10,392 | 11,891 | 199 | 1,083 | 22.0 |
| 1983 | 268 | 28,153 | 41,208 | 74,347 | 13,001 | 198 | 875 | 32.0 |
| 1984 | 136 | 27,372 | 19,124 | 99,807 | 28,461 | 268 | 587 | 32.0 |
| 1985 | 538 | 172,088 | 50,577 | 319,379 | 45,566 | 664 | 1,726 | 38.0 |
| 1986 | 421 | 85,247 | 104,328 | 105,347 | 48,471 | 684 | 1,896 | 32.0 |
| 1987 | 441 | 79,165 | 17,776 | 117,059 | 25,877 | 318 | 978 | 20.0 |
| 1988 | 452 | 57,337 | 6,349 | 10,894 | 42,210 | 341 | 815 | 18.0 |
| 1989 | 581 | 107,886 | 55,671 | 418,044 | 40,156 | 268 | 1,716 | 34.0 |
| 1990 | 759 | 104,922 | 94,526 | 84,543 | 42,474 | 767 | 1,827 | 34.0 |
| 1991 | 844 | 89,355 | 136,990 | 64,334 | 85,435 | 135 | 2,118 | 39.0 |
| 1992 | 743 | 146,608 | 190,885 | 38,483 | 100,666 | 138 | 2,630 | 40.0 |
| 1993 | 458 | 129,859 | 134,902 | 296,986 | 96,995 | 107 | 2,728 | 38.0 |
| 1994 | 456 | 157,526 | 191,695 | 66,225 | 125,826 | 59 | 2,988 | 43.0 |
| 1995 | 663 | 133,713 | 109,613 | 154,004 | 189,369 | 100 | 2,349 | 34.0 |
| 1996 | 487 | 223,784 | 159,319 | 70,620 | 162,872 | 97 | 3,623 | 46.0 |
| 1997 | 829 | 118,675 | 52,917 | 414,619 | 100,612 |  | 2,402 | 39.0 |
| 1998 | 334 | 79,052 | 175,124 | 196,403 | 200,892 |  | 2,999 | 43.0 |
| 1999 | 397 | 73,378 | 130,083 | 277,194 | 284,807 |  | 3,294 | 50.0 |
| 2000 | 558 | 57,863 | 54,232 | 80,014 | 120,111 |  | 1,522 | 33.0 |
| 2001 | 516 | 99,219 | 133,956 | 345,385 | 168,265 |  | 2,406 | 50.0 |
| 2002 | 216 | 39,030 | 163,727 | 41,086 | 71,333 |  | 1,844 | 47.0 |
| 2003 | 254 | 88,595 | 147,674 | 290,508 | 238,734 |  | 2,763 | 59.0 |
| 2004 | 1,508 | 85,929 | 80,083 | 132,627 | 72,317 |  | 1,845 | 55.0 |
| Averages |  |  |  |  |  |  |  |  |
| 60-04 | 560 | 72,320 | 59,602 | 126,235 | 61,640 | 261 | 1,688 | 36.7 |
| 95-04 | 576 | 99,924 | 120,673 | 200,246 | 160,931 | 99 | 2,505 | 45.6 |
| 2005 | 988 | 83,647 | 77,059 | 293,017 | 151,785 |  | 2,000 | 53.0 |

Appendix B. 4. Stock proportions and catches of sockeye salmon in the Alaskan Subdistrict 106-41/42 (Sumner Strait) commercial commercial drift gillnet fishery, 1985-2005.

| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | Tuya | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 0.571 | 0.270 | 0.086 | 0.072 | 0.037 | 0.159 |  |  |
| 95-04 | 0.542 | 0.250 | 0.102 | 0.072 | 0.034 | 0.208 | 0.070 | 0.032 |
| 2005 | 0.405 | 0.338 | 0.227 | 0.000 | 0.029 | 0.256 | 0.104 | 0.123 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 57,561 | 30,862 | 10,782 | 6,358 | 4,078 | 18,039 |  |  |
| 95-04 | 50,846 | 27,439 | 12,266 | 6,358 | 3,015 | 21,639 | 8,985 | 3,281 |
| 2005 | 33,909 | 28,312 | 18,979 | 0 | 2,447 | 21,426 | 8,687 | 10,292 |

${ }^{\mathrm{a}}$ Tahltan includes wild and thermally marked fish.

Appendix B. 5. Salmon catch and effort in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 1960-2005.

| Year | Catch |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Permit Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Chinook | Sockeye | Coho | Pink | Chum | Steelhead |  |  |
| 1960 | 22 | 1,349 | 59 | 143 | 140 |  | 118 | 13.0 |
| 1961 | 341 | 11,126 | 13,083 | 97,801 | 54,822 |  | 1,378 | 57.0 |
| 1962 | 1,177 | 27,341 | 35,728 | 210,633 | 49,575 |  | 3,882 | 52.0 |
| 1963 | 1,250 | 35,462 | 36,376 | 379,093 | 39,723 |  | 3,278 | 51.0 |
| 1964 | 1,766 | 23,598 | 37,316 | 259,684 | 21,305 |  | 3,039 | 49.0 |
| 1965 | 1,123 | 29,013 | 45,158 | 463,577 | 11,895 |  | 2,849 | 50.8 |
| 1966 | 975 | 24,126 | 32,031 | 304,645 | 16,521 |  | 2,898 | 74.3 |
| 1967 | 650 | 26,237 | 7,097 | 39,325 | 6,744 |  | 1,048 | 27.0 |
| 1968 | 306 | 14,459 | 21,040 | 87,095 | 22,365 |  | 1,968 | 52.0 |
| 1969 | 270 | 24,060 | 4,186 | 104,998 | 4,510 | 77 | 1,026 | 31.0 |
| 1970 | 365 | 15,966 | 20,317 | 65,790 | 14,139 | 107 | 1,025 | 41.0 |
| 1971 | 665 | 19,211 | 23,358 | 244,236 | 18,351 | 222 | 1,517 | 50.0 |
| 1972 | 826 | 26,593 | 32,600 | 48,823 | 25,871 | 177 | 1,276 | 41.0 |
| 1973 | 391 | 16,741 | 13,526 | 143,324 | 25,243 | 125 | 1,303 | 26.0 |
| 1974 | 584 | 10,586 | 16,762 | 47,107 | 12,264 | 97 | 712 | 28.0 |
| 1975 | 2,120 | 12,732 | 26,312 | 173,675 | 16,206 | 110 | 1,159 | 8.5 |
| 1976 | 147 | 6,162 | 8,759 | 119,188 | 4,567 | 57 | 527 | 21.0 |
| 1977 | 469 | 19,615 | 6,582 | 368,069 | 9,060 | 32 | 940 | 21.0 |
| 1978 |  | 40,152 | 28,816 | 215,169 | 13,403 | 133 | 1,148 | 16.0 |
| 1979 | 2,262 | 31,566 | 15,996 | 471,817 | 18,691 | 165 | 1,848 | 25.0 |
| 1980 | 375 | 58,988 | 5,772 | 28,594 | 11,115 | 52 | 749 | 25.0 |
| 1981 | 967 | 49,708 | 9,453 | 217,379 | 8,614 | 31 | 1,321 | 26.0 |
| 1982 | 1,000 | 72,235 | 10,288 | 15,141 | 6,755 | 83 | 647 | 21.0 |
| 1983 | 299 | 20,689 | 21,234 | 133,943 | 7,143 | 63 | 589 | 37.0 |
| 1984 | 756 | 64,281 | 22,235 | 243,448 | 41,797 | 230 | 1,236 | 24.0 |
| 1985 | 1,149 | 92,899 | 40,611 | 265,574 | 24,107 | 339 | 1,372 | 36.0 |
| 1986 | 1,283 | 60,462 | 90,584 | 203,137 | 33,818 | 630 | 1,664 | 31.0 |
| 1987 | 395 | 57,262 | 16,758 | 126,423 | 16,148 | 171 | 799 | 20.0 |
| 1988 | 652 | 35,192 | 6,754 | 58,665 | 27,410 | 246 | 682 | 19.0 |
| 1989 | 963 | 84,848 | 36,714 | 683,150 | 27,195 | 126 | 1,583 | 34.0 |
| 1990 | 1,349 | 80,883 | 69,709 | 234,643 | 30,758 | 193 | 1,676 | 34.0 |
| 1991 | 1,211 | 54,749 | 61,170 | 69,232 | 39,195 | 63 | 1,505 | 39.0 |
| 1992 | 612 | 56,547 | 108,050 | 55,765 | 39,802 | 49 | 1,603 | 40.0 |
| 1993 | 534 | 76,096 | 96,136 | 240,974 | 37,606 | 18 | 1,646 | 38.0 |
| 1994 | 298 | 53,522 | 76,167 | 113,769 | 50,200 | 36 | 1,606 | 43.0 |
| 1995 | 288 | 73,585 | 60,948 | 294,159 | 110,709 | 10 | 1,422 | 34.0 |
| 1996 | 157 | 87,316 | 64,321 | 117,415 | 120,418 | 33 | 1,580 | 39.0 |
| 1997 | 246 | 49,843 | 24,633 | 374,432 | 85,844 |  | 1,329 | 38.0 |
| 1998 | 184 | 34,383 | 98,073 | 306,252 | 131,130 |  | 1,522 | 43.0 |
| 1999 | 121 | 31,500 | 73,179 | 213,522 | 163,560 |  | 1,766 | 49.0 |
| 2000 | 662 | 32,213 | 41,975 | 76,605 | 79,725 |  | 934 | 33.0 |
| 2001 | 541 | 64,794 | 54,509 | 479,945 | 114,645 |  | 1,573 | 50.0 |
| 2002 | 230 | 17,105 | 62,833 | 41,865 | 41,208 |  | 896 | 47.0 |
| 2003 | 168 | 28,309 | 64,383 | 180,189 | 61,519 |  | 1,158 | 59.0 |
| 2004 | 1,227 | 30,330 | 58,548 | 112,610 | 38,257 |  | 953 | 55.0 |
| Averages |  |  |  |  |  |  |  |  |
| 60-04 | 713 | 39,641 | 37,781 | 194,023 | 38,535 | 131 | 1,439 | 36.6 |
| 95-04 | 382 | 44,938 | 60,340 | 219,699 | 94,702 | 22 | 1,313 | 45 |
| 2005 | 538 | 26,545 | 37,381 | 168,170 | 46,779 |  | 1,005 | 53.0 |

Appendix B. 6. Stock proportions and catches of sockeye salmon in the Alaskan Subdistrict 106-30 (Clarence Strait) commercial drift gillnet fishery, 1985-2005.

| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | 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 |
| Average |  |  |  |  |  |  |  |  |
| 85-03 | 0.682 | 0.255 | 0.023 | 0.019 | 0.031 | 0.063 |  |  |
| 94-03 | 0.694 | 0.241 | 0.024 | 0.019 | 0.024 | 0.065 | 0.018 | 0.006 |
| 2005 | 0.689 | 0.250 | 0.041 | 0.000 | 0.020 | 0.061 | 0.039 | 0.002 |
| 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 |
| Average |  |  |  |  |  |  |  |  |
| 85-04 | 35,537 | 16,105 | 1,353 |  | 1,736 | 3,450 |  |  |
| 95-04 | 28,898 | 13,317 | 1,006 | 721 | 996 | 2,723 | 758 | 248 |
| 2005 | 18,283 | 6,640 | 1,101 | 0 | 521 | 1,622 | 1,037 | 64 |

${ }^{\mathrm{a}}$ Tahltan includes wild and thermally marked fish.

Appendix B. 7. Salmon catch and effort in the Alaskan District 108 commercial drift gillnet fishery, 19602005.

Permit days are adjusted for boats which did not fish the entire opening and may total less than the sum of the permits times days open.

| Year | Catch |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink ${ }^{\text {a }}$ | Chum | Steelhead | $\begin{gathered} \hline \text { Permit } \\ \text { Days } \end{gathered}$ | $\begin{aligned} & \text { Days } \\ & \text { Open } \\ & \hline \end{aligned}$ |
|  | Large Jack |  |  |  |  |  |  |  |
| 1960 |  |  |  |  |  |  |  |  |
| 1961 |  |  |  |  |  |  |  |  |
| 1962 | 618 | 4,430 | 3,921 | 2,889 | 2,035 |  |  | 27.0 |
| 1963 | 1,430 | 9,979 | 11,612 | 10,198 | 11,024 |  |  | 53.0 |
| 1964 | 2,911 | 20,299 | 29,388 | 114,555 | 10,771 |  |  | 62.0 |
| 1965 | 3,106 | 21,419 | 8,301 | 4,729 | 2,480 |  |  | 48.0 |
| 1966 | 4,516 | 36,710 | 16,493 | 61,908 | 17,730 |  |  | 62.0 |
| 1967 | 6,372 | 29,226 | 6,747 | 4,713 | 5,955 |  |  | 40.0 |
| 1968 | 4,604 | 14,594 | 36,407 | 91,028 | 14,537 |  |  | 61.0 |
| 1969 | 5,021 | 19,209 | 5,790 | 11,877 | 2,311 | 238 | 967 | 46.0 |
| 1970 | 3,207 | 15,120 | 18,403 | 20,523 | 12,305 | 109 | 1,222 | 51.0 |
| 1971 | 3,717 | 18,143 | 14,876 | 21,806 | 4,665 | 62 | 1,070 | 57.0 |
| 1972 | 9,332 | 51,734 | 38,520 | 17,153 | 17,363 | 193 | 2,095 | 64.0 |
| 1973 | 9,254 | 21,387 | 5,837 | 6,585 | 6,680 | 67 | 1,519 | 39.0 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 57 | 1,178 | 28.5 |
| 1975 | 1,534 | 0 | 0 | 0 | 1 | 5 | 258 | 8.0 |
| 1976 | 1,123 | 18 | 6,056 | 722 | 124 | 20 | 372 | 19.0 |
| 1977 | 1,443 | 48,374 | 14,405 | 16,253 | 4,233 | 24 | 742 | 23.0 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 60 | 565 | 12.0 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 3 | 94 | 5.0 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 8 | 327 | 22.0 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 9 | 177 | 9.0 |
| 1982 | 1,033 | 6,911 | 19,971 | 16,988 | 741 | 32 | 494 | 21.0 |
| 1983 | 47 | 178 | 15,369 | 4,171 | 675 | 81 | 263 | 17.0 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 4 | 56 | 8.6 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 |  | 70 | 14.0 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 5 | 246 | 25.0 |
| 1987 | 149 | 1,629 | 1,015 | 3,343 | 949 | 4 | 81 | 13.0 |
| 1988 | 206 | 1,246 | 12 | 144 | 3,109 | 9 | 66 | 8.0 |
| 1989 | 310 | 10,083 | 4,261 | 27,640 | 3,375 | 10 | 216 | 28.0 |
| 1990 | 557 | 11,574 | 8,218 | 13,822 | 9,382 | 29 | 359 | 34.0 |
| 1991 | 1,504 | 22,275 | 15,864 | 10,935 | 11,402 | 11 | 643 | 48.5 |
| 1992 | 967 | 52,717 | 22,127 | 66,742 | 15,458 | 27 | 1,246 | 51.0 |
| 1993 | 1,628 | 76,874 | 14,307 | 39,661 | 22,504 | 29 | 1,569 | 48.0 |
| 1994 | 1,996 | 97,224 | 44,891 | 35,405 | 27,658 | 47 | 2,199 | 57.0 |
| 1995 | 1,702 | 76,756 | 17,834 | 37,788 | 54,296 | 18 | 1,729 | 49.5 |
| 1996 | 1,717 | 154,150 | 19,059 | 37,651 | 135,623 | 40 | 2,396 | 56.5 |
| 1997 | 2,566 | 93,039 | 2,140 | 65,745 | 38,913 |  | 1,699 | 44.0 |
| 1998 | 460 | 22,031 | 19,206 | 39,246 | 41,057 |  | 947 | 45.0 |
| 1999 | 1,049 | 36,548 | 28,437 | 48,550 | 117,196 |  | 1,675 | 54.0 |
| 2000 | 1,671 | 15,833 | 5,651 | 9,497 | 40,337 |  | 606 | 35.0 |
| 2001 | 7 | 610 | 10,731 | 11,012 | 5,397 |  | 377 | 36.0 |
| 2002 | 25 | 208 | 21,131 | 4,578 | 2,017 |  | 323 | 35.0 |
| 2003 | 312 | 42,158 | 38,795 | 76,113 | 51,701 |  | 1,270 | 56.0 |
| 2004 | 7,410 | 103,392 | 26,439 | 20,439 | 37,996 |  | 1,830 | 53.0 |
| Averages |  |  |  |  |  |  |  |  |
| 60-04 | 2,172 | 27,213 | 14,418 | 23,189 | 17,590 | 44 | 860 | 36.6 |
| 95-04 | 1,692 | 54,473 | 18,942 | 35,062 | 52,453 | 29 | 1,285 | 46.4 |
| 2005 | 24,293 2,676 | 99,465 | 42,203 | 106,395 | 150,121 |  | 4,592 | 78.0 |
| Alaska Hatchery Contribution |  |  |  |  |  |  |  |  |
| 1989 | 83 |  | 55 |  | 257 |  |  |  |
| 1990 | 249 |  | 2,536 |  | 813 |  |  |  |
| 1991 | 490 |  | 3,442 |  | 141 |  |  |  |
| 1992 | 439 |  | 7,067 |  | 500 |  |  |  |
| 1993 | 762 |  | 890 |  | 282 |  |  |  |
| 1994 | 594 |  | 2,043 |  | 2,159 |  |  |  |
| 1995 | 757 | 268 | 1,087 |  | 18,334 |  |  |  |
| 1996 | 839 | 420 | 1,269 |  | 41,706 |  |  |  |
| 1997 | 731 |  | 161 |  | 14,461 |  |  |  |
| 1998 | 302 | 62 | 3,042 |  | 15,016 |  |  |  |
| 1999 | 361 | 792 | 6,361 |  | 21,640 |  |  |  |


| 2000 | 934 |  |  | 2,801 |  | 4,556 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2001 | 0 |  |  | 2,565 |  | 1,829 |  |  |  |
| 2002 | 0 |  | 0 | 1,449 |  | 0 |  |  |  |
| 2003 | 209 |  | 0 | 7,260 |  | 6,729 |  |  |  |
| 2004 | 1,890 |  | 0 | 2,447 |  | 0 |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |
| 94-04 | 602 |  | 220 | 2,771 |  | 11,494 |  |  |  |
| 2005 | 1,816 | 426 | 0 | 8,986 |  | 62,543 |  |  |  |
| Catches not including Alaska hatchery contributions |  |  |  |  |  |  |  |  |  |
| 1989 | 227 |  | 10,083 | 4,206 | 27,640 | 3,118 | 10 | 216 | 28.0 |
| 1990 | 308 |  | 11,574 | 5,682 | 13,822 | 8,569 | 29 | 359 | 34.0 |
| 1991 | 1,014 |  | 22,275 | 12,422 | 10,935 | 11,261 | 11 | 643 | 48.5 |
| 1992 | 528 |  | 52,717 | 15,060 | 66,742 | 14,958 | 27 | 1,246 | 51.0 |
| 1993 | 866 |  | 76,874 | 13,417 | 39,661 | 22,222 | 29 | 1,569 | 48.0 |
| 1994 | 1,402 |  | 97,224 | 42,848 | 35,405 | 25,499 | 47 | 2,199 | 57.0 |
| 1995 | 945 |  | 76,488 | 16,747 | 37,788 | 35,962 | 18 | 1,729 | 49.5 |
| 1996 | 878 |  | 153,730 | 17,790 | 37,651 | 93,917 | 40 | 2,396 | 56.5 |
| 1997 | 1,835 |  | 93,039 | 1,979 | 65,745 | 24,452 | 0 | 1,699 | 44.0 |
| 1998 | 158 |  | 21,969 | 16,164 | 39,246 | 26,041 | 0 | 947 | 45.0 |
| 1999 | 688 |  | 35,756 | 22,076 | 48,550 | 95,556 | 0 | 1,675 | 54.0 |
| 2000 | 737 |  | 15,833 | 2,850 | 9,497 | 35,781 | 0 | 606 | 35.0 |
| 2001 | 7 |  | 610 | 8,166 | 11,012 | 3,568 | 0 | 377 | 36.0 |
| 2002 | 25 |  | 208 | 19,682 | 4,578 | 2,017 | 0 | 323 | 35.0 |
| 2003 | 103 |  | 42,158 | 31,535 | 76,113 | 44,972 | 0 | 1,270 | 56.0 |
| 2004 | 5,520 |  | 103,392 | 23,992 | 20,439 | 37,996 | 0 | 1,830 | 53.0 |
| Averages |  |  |  |  |  |  |  |  |  |
| 94-04 | 1,118 |  | 58,219 | 18,530 | 35,093 | 38,706 | 10 | 1,368 | 47.4 |
| 2005 | 22,477 | 2,250 | 99,465 | 33,217 | 106,395 | 87,578 |  | 4,592 | 78.0 |

${ }^{\text {a }}$ Data not available to estimate contributions of pink salmon from Alaska hatcheries.

Appendix B. 8. Stock proportions and catches of sockeye salmon in the Alaskan District 108 commercial drift gillnet fishery, 1985-2005.

| Year | Alaska | Canada | Stikine |  |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Tahltan ${ }^{\text {a }}$ | 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 |  |  |
| $1987{ }^{\text {b }}$ | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 0.237 | 0.089 | 0.269 | 0.113 | 0.348 | 0.673 |  |  |
| 95-04 | 0.278 | 0.115 | 0.303 | 0.113 | 0.202 | 0.607 | 0.216 | 0.086 |
| 2005 | 0.128 | 0.178 | 0.437 | 0.000 | 0.257 | 0.694 | 0.179 | 0.258 |
| 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 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 6,611 | 4,538 | 16,866 | 5,674 | 10,328 | 30,031 |  |  |
| 95-04 | 6,313 | 5,430 | 25,674 | 5,674 | 11,382 | 42,730 | 18,543 | 7,131 |
| 2005 | 12,742 | 17,661 | 43,467 | 0 | 25,595 | 69,062 | 17,853 | 25,614 |

${ }^{\text {a }}$ Tahltan includes wild and thermally marked fish.
${ }^{\mathrm{b}}$ There was no data available to determine the ratio of Tahltan to mainstem Stikine stocks; a 1:1 ratio was assumed.

Appendix B. 9. Salmon catch in the Alaskan District 106 and 108 test fisheries, 1984-2005.

| Table only includes years when test fisheries were operated. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  | Boat <br> Hours |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |
| Sub-district 106-41 (Sumner Strait) |  |  |  |  |  |  |
| 1984 | 13 | 1,370 | 101 | 975 | 793 | 142.51 |
| 1985 | 16 | 4,345 | 301 | 3,230 | 746 | 156.31 |
| 1986 | 23 | 982 | 177 | 60 | 248 | 99.45 |
| 1987 | 24 | 2,659 | 799 | 4,117 | 741 | 508.10 |
| 1988 | 11 | 1,020 | 89 | 137 | 772 | 121.00 |
| 1989 | 11 | 2,043 | 275 | 6,069 | 856 | 60.20 |
| 1990 | 13 | 2,256 | 432 | 372 | 552 | 7.00 |
| 1994 | 0 | 12 | 1 | 0 | 16 | 11.00 |
| Sub-district 106-30 (Clarence Strait) |  |  |  |  |  |  |
| 1986 | 24 | 363 | 95 | 80 | 58 | 23.25 |
| 1987 | 1 | 899 | 589 | 1,705 | 467 | 384.00 |
| 1988 | 10 | 16 | 412 | 112 | 598 | 119.70 |
| 1989 | 4 | 37 | 464 | 431 | 329 |  |
| Total District 106 |  |  |  |  |  |  |
| 1984 | 13 | 1,370 | 101 | 975 | 793 | 142.51 |
| 1985 | 16 | 4,345 | 301 | 3,230 | 746 | 156.31 |
| 1986 | 47 | 1,345 | 272 | 140 | 306 | 122.70 |
| 1987 | 25 | 3,558 | 1,388 | 5,822 | 1,208 | 892.10 |
| 1988 | 21 | 1,036 | 501 | 249 | 1,370 | 240.70 |
| 1989 | 15 | 2,080 | 739 | 6,500 | 1,185 | 60.20 |
| 1990 | 13 | 2,256 | 432 | 372 | 552 | 7.00 |
| 1994 | 0 | 12 | 1 | 0 | 16 | 11.00 |
| District 108 |  |  |  |  |  |  |
| 1984 | 37 | 641 | 11 | 822 | 813 |  |
| 1985 | 33 | 1,258 | 11 | 465 | 381 | 71.67 |
| 1986 | 79 | 564 | 3 | 36 | 315 | 72.15 |
| 1987 | 30 | 290 | 13 | 1,957 | 488 | 76.87 |
| 1988 | 65 | 451 | 9 | 1,091 | 1,009 | 126.83 |
| 1989 | 15 | 1,038 | 45 | 2,459 | 283 | 63.47 |
| 1990 | 19 | 866 | 45 | 942 | 643 | 7.00 |
| 1991 | 21 | 893 | 18 | 390 | 455 | 154.99 |
| 1992 | 26 | 1,299 | 23 | 855 | 252 | 79.00 |
| 1993 | 30 | 303 | 0 | 18 | 31 | 45.00 |
| 1998 | 0 | 3,510 | 142 | 61 | 235 | 45.00 |
| 1999 | 29 | 4,801 | 217 | 429 | 1,368 | 45.00 |
| 2000 | 21 | 4,686 | 140 | 53 | 724 |  |

Appendix B. 10. Stock proportions of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2005.

| Table only includes years when test fisheries were operated. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Stikine |  |  |  | Tahltan |  |
| Year | Alaska | Canada | Tahltan ${ }^{\text {a }}$ | 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 | 0.016 |
| 1999 | 0.162 | 0.019 | 0.481 | 0.298 | 0.041 | 0.820 | 0.453 | 0.028 |
| 2000 | 0.110 | 0.116 | 0.302 | 0.321 | 0.150 | 0.774 | 0.240 | 0.062 |

Appendix B. 11. Stock specific catches of sockeye salmon in the Alaskan District 106 and 108 test fisheries, 1984-2005.

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Alaska | Canada | Tahltan ${ }^{\text {a }}$ | Tuya | Mainstem | 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 |

[^6]Appendix B. 12. Annual harvests of Stikine River Chinook salmon in District 108 gillnet, troll, recreational, and subsistence fisheries, 2005.

| Year | Chinook Salmon Harvest |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gillnet |  |  | Troll ${ }^{\text {b }}$ |  |  | Sport | Subsist. | Total |
|  | Catch | Permits | Days | Catch | Permits | Days |  |  |  |
| 2005 | 22,173 | 0 | 41 | 4,296 | 0 | 61 | 3,002 | 20 | 29,491 |

Appendix B. 13. U.S. subsistence fishery harvest in the Stikine River, 2004-2005.

| Year | Harvest |  |  |  |  |  |  |  | Permits <br> Fished |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steel <br> Head | Dolly Varden |  |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 2004 | 12 | 9 | 243 | 4 | 22 | 11 | 1 |  | 35 |
| 2005 | 20 | 0 | 252 | 53 | 69 | 22 |  | 4 | 22 |

Appendix B. 14. Salmon and steelhead trout catch and effort in the Canadian commercial fishery in the lower Stikine River, 1979-2005.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead ${ }^{\text {b }}$ | Permit Days | Days |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| $1979{ }^{\text {c }}$ | 712 | 63 | 10,534 | 10,720 | 1,994 | 424 | 264 | 756.0 | 42.0 |
| 1980 | 1,488 |  | 18,119 | 6,629 | 736 | 771 | 362 | 668.0 | 41.0 |
| 1981 | 664 |  | 21,551 | 2,667 | 3,713 | 1,128 | 280 | 522.0 | 32.0 |
| 1982 | 1,693 |  | 15,397 | 15,904 | 1,782 | 722 | 828 | 1,063.0 | 71.0 |
| 1983 | 492 | 430 | 15,857 | 6,170 | 1,043 | 274 | 667 | 434.0 | 54.0 |
| $1984{ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |
| 1985 | 256 | 91 | 17,093 | 2,172 | 2,321 | 532 | 231 | 145.5 | 22.5 |
| 1986 | 806 | 365 | 12,411 | 2,278 | 107 | 295 | 192 | 239.0 | 13.5 |
| 1987 | 909 | 242 | 6,138 | 5,728 | 646 | 432 | 217 | 287.0 | 20.0 |
| 1988 | 1,007 | 201 | 12,766 | 2,112 | 418 | 730 | 258 | 320.0 | 26.5 |
| 1989 | 1,537 | 157 | 17,179 | 6,092 | 825 | 674 | 127 | 325.0 | 23.0 |
| 1990 | 1,569 | 680 | 14,530 | 4,020 | 496 | 499 | 188 | 328.0 | 29.0 |
| 1991 | 641 | 318 | 17,563 | 2,638 | 394 | 208 | 71 | 282.4 | 39.0 |
| 1992 | 873 | 89 | 21,031 | 1,850 | 122 | 231 | 129 | 235.4 | 55.0 |
| 1993 | 830 | 164 | 38,464 | 2,616 | 29 | 395 | 63 | 483.8 | 58.0 |
| 1994 | 1,016 | 158 | 38,462 | 3,377 | 89 | 173 | 75 | 430.1 | 74.0 |
| 1995 | 1,067 | 599 | 45,622 | 3,418 | 48 | 256 | 208 | 534.0 | 59.0 |
| 1996 | 1,708 | 221 | 66,262 | 1,402 | 25 | 229 | 153 | 439.2 | 81.0 |
| 1997 | 3,283 | 186 | 56,995 | 401 | 269 | 222 | 33 | 569.4 | 89.0 |
| 1998 | 1,614 | 328 | 37,310 | 726 | 55 | 13 | 209 | 374.0 | 46.5 |
| 1999 | 2,127 | 789 | 32,556 | 181 | 11 | 8 | 14 | 261.3 | 31.0 |
| 2000 | 1,970 | 240 | 20,472 | 298 | 181 | 144 | 89 | 227.0 | 23.3 |
| 2001 | 826 | 59 | 19,872 | 233 | 78 | 56 | 30 | 173.0 | 23.0 |
| 2002 | 433 | 209 | 10,420 | 82 | 19 | 33 | 17 | 169.0 | 21.0 |
| 2003 | 695 | 672 | 51,735 | 190 | 850 | 112 | 0 | 275.2 | 28.8 |
| 2004 | 2,481 | 2,070 | 77,530 | 271 | 8 | 134 | 0 | 431.0 | 43.0 |
| Averages |  |  |  |  |  |  |  |  |  |
| $79-04^{\text {e }}$ | 1,245 | 394 | 27,835 | 3,287 | 650 | 348 | 188 | 399 | 41.8 |
| 95-04 | 1,620 | 537 | 41,877 | 720 | 154 | 121 | 75 | 345 | 44.6 |
| 2005 | 19,070 | 1,181 | 79,952 | 276 | 0 | 39 | 0 | 803.0 | 72.0 |

${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$.
${ }^{\text {b }}$ All steelhead released post 2002
${ }^{\text {c }}$ The lower river commercial catch in 1979 includes the upper river commercial catch.
${ }^{\text {d }}$ There was no commercial fishery in 1984.
${ }^{\text {e }}$ Chinook averages only since 1983 when large fish and jacks were recorded separately.

Appendix B. 15. Sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery in the lower Stikine River, 1979-2005.
Stock compositions based on: scale circuli counts 1970-1983; SPA in 1985; average of SPA and GPA 1986; SPA in 1987 and 1988; and egg diameter in 1989-2006.

| Year | Proportions |  |  | Planted <br> Tahltan | Catch |  |  | Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tahltan | Tuya | Mainstem |  | Tahltan | Tuya | Mainstem | Wild | Planted |
| 1979 | 0.433 |  | 0.567 |  | 4,561 |  | 5,973 |  |  |
| 1980 | 0.309 |  | 0.691 |  | 5,599 |  | 12,520 |  |  |
| 1981 | 0.476 |  | 0.524 |  | 10,258 |  | 11,293 |  |  |
| 1982 | 0.624 |  | 0.376 |  | 9,608 |  | 5,789 |  |  |
| 1983 | 0.422 |  | 0.578 |  | 6,692 |  | 9,165 |  |  |
| $1984{ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
| 1985 | 0.623 |  | 0.377 |  | 10,649 |  | 6,444 |  |  |
| 1986 | 0.489 |  | 0.511 |  | 6,069 |  | 6,342 |  |  |
| 1987 | 0.225 |  | 0.775 |  | 1,380 |  | 4,758 |  |  |
| 1988 | 0.161 |  | 0.839 |  | 2,062 |  | 10,704 |  |  |
| 1989 | 0.164 |  | 0.836 |  | 2,813 |  | 14,366 |  |  |
| 1990 | 0.346 |  | 0.654 |  | 5,029 |  | 9,501 |  |  |
| 1991 | 0.634 |  | 0.366 |  | 11,136 |  | 6,427 |  |  |
| 1992 | 0.482 |  | 0.518 |  | 10,134 |  | 10,897 |  |  |
| 1993 | 0.537 |  | 0.463 |  | 20,662 |  | 17,802 |  |  |
| 1994 | 0.616 |  | 0.384 |  | 23,678 |  | 14,784 |  |  |
| 1995 | 0.676 | 0.020 | 0.304 | 0.195 | 30,848 | 893 | 13,881 | 21,936 | 8,912 |
| 1996 | 0.537 | 0.113 | 0.350 | 0.066 | 35,584 | 7,465 | 23,213 | 31,197 | 4,387 |
| 1997 | 0.356 | 0.272 | 0.372 | 0.072 | 20,269 | 15,513 | 21,213 | 16,175 | 4,094 |
| 1998 | 0.335 | 0.352 | 0.313 | 0.020 | 12,498 | 13,137 | 11,675 | 11,751 | 747 |
| 1999 | 0.576 | 0.241 | 0.183 | 0.021 | 18,742 | 7,862 | 5,952 | 18,046 | 696 |
| 2000 | 0.252 | 0.397 | 0.350 | 0.039 | 5,165 | 8,136 | 7,171 | 4,364 | 801 |
| 2001 | 0.175 | 0.226 | 0.599 | 0.032 | 3,482 | 4,483 | 11,907 | 2,850 | 632 |
| 2002 | 0.320 | 0.128 | 0.552 | 0.074 | 3,335 | 1,335 | 5,750 | 2,559 | 776 |
| 2003 | 0.427 | 0.161 | 0.412 | 0.131 | 22,067 | 8,335 | 21,333 | 15,304 | 6,763 |
| 2004 | 0.707 | 0.016 | 0.276 | 0.285 | 54,841 | 1,276 | 21,413 | 32,717 | 22,124 |
| Averages |  |  |  |  |  |  |  |  |  |
| 79-04 | 0.436 |  | 0.487 |  | 13,486 |  | 11,611 |  |  |
| 95-04 | 0.436 | 0.193 | 0.371 | 0.094 | 20683 | 6844 | 14351 | 15690 | 4993 |
| 2005 | 0.761 | 0.018 | 0.221 | 0.352 | 60,881 | 1,437 | 17,634 | 32,707 | 28,174 |

${ }^{a}$ There was no commercial fishery in 1984.

Appendix B. 16. Salmon and steelhead trout catch and effort in the Canadian commercial fishery in the upper Stikine River, 1975-2005.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead | Permit Days | Days |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| 1975 | 178 |  | 270 | 45 | 0 | 0 | 0 |  |  |
| 1976 | 236 |  | 733 | 13 | 0 | 0 | 0 |  |  |
| 1977 | 62 |  | 1,975 | 0 | 0 | 0 | 0 |  |  |
| 1978 | 100 |  | 1,500 | 0 | 0 | 0 | 0 |  |  |
| $1979{ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |
| 1980 | 156 |  | 700 | 40 | 20 | 0 | 0 |  |  |
| 1981 | 154 |  | 769 | 0 | 0 | 0 | 0 | 11.0 | 5.0 |
| 1982 | 76 |  | 195 | 0 | 0 | 0 | 0 | 8.0 | 4.0 |
| 1983 | 75 |  | 614 | 0 | 0 | 4 | 1 | 10.0 | 8.0 |
| $1984{ }^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| 1985 | 62 |  | 1,084 | 0 | 0 | 0 | 0 | 14.0 | 6.0 |
| 1986 | 104 | 41 | 815 | 0 | 0 | 0 | 0 | 19.0 | 7.0 |
| 1987 | 109 | 19 | 498 | 0 | 0 | 19 | 0 | 20.0 | 7.0 |
| 1988 | 175 | 46 | 348 | 0 | 0 | 0 | 0 | 21.5 | 6.5 |
| 1989 | 54 | 17 | 493 | 0 | 0 | 0 | 0 | 14.0 | 7.0 |
| 1990 | 48 | 20 | 472 | 0 | 0 | 0 | 0 | 15.0 | 7.0 |
| 1991 | 117 | 32 | 761 | 0 | 0 | 0 | 0 | 13.0 | 6.0 |
| 1992 | 56 | 19 | 822 | 0 | 0 | 0 | 0 | 28.0 | 13.0 |
| 1993 | 44 | 2 | 1,692 | 0 | 0 | 0 | 2 | 48.0 | 22.0 |
| 1994 | 76 | 1 | 2,466 | 0 | 1 | 0 | 0 | 68.0 | 50.0 |
| 1995 | 9 | 17 | 2,355 | 0 | 0 | 0 | 0 | 54.0 | 25.0 |
| 1996 | 41 | 44 | 1,101 | 0 | 0 | 0 | 0 | 75.0 | 59.0 |
| 1997 | 45 | 6 | 2,199 | 0 | 0 | 0 | 0 | 42.0 | 29.0 |
| 1998 | 12 | 0 | 907 | 0 | 0 | 0 | 0 | 19.0 | 19.0 |
| 1999 | 24 | 12 | 625 | 0 | 0 | 0 | 0 | 19.0 | 18.0 |
| 2000 | 7 | 2 | 889 | 0 | 0 | 0 | 0 | 19.8 | 9.3 |
| 2001 | 0 | 0 | 487 | 0 | 0 | 0 | 0 | 6.0 | 4.0 |
| 2002 | 2 | 3 | 484 | 0 | 0 | 0 | 0 | 12.0 | 9.0 |
| 2003 | 19 | 12 | 454 | 0 | 0 | 0 | 0 | 10.0 | 10.0 |
| 2004 | 0 | 1 | 626 | 0 | 0 | 0 | 0 | 11.0 | 11.0 |
| Averages |  |  |  |  |  |  |  |  |  |
| $75-04{ }^{\text {d }}$ | 50 | 15 | 941 | 4 | 1 | 1 | 0 | 24 | 14.9 |
| 95-04 | 16 | 10 | 1,013 | 0 | 0 | 0 | 0 | 26.8 | 19.3 |
| 2005 | 28 | 1 | 605 | 0 | 0 | 0 | 0 | 13.0 | 13.0 |

${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish ~2.5-3.0 kg; the jack catch may not correspond with the estimated
jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$.
${ }^{\text {b }}$ Catches in 1979 were included in the lower river commercial catches.
${ }^{\text {c }}$ There was no commercial fishery in 1984.
${ }^{\text {d }}$ Chinook averages only since 1986 when large fish and jacks were recorded separately.

Appendix B. 17. Salmon and steelhead trout catch in the Canadian Aboriginal fishery located at Telegraph Creek, on the Stikine River, 1972-2005.

| Year | Catch |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |
| 1972 |  |  | 4,373 | 0 | 0 | 0 | 0 |
| 1973 | 200 |  | 3,670 | 0 | 0 | 0 | 0 |
| 1974 | 100 |  | 3,500 | 0 | 0 | 0 | 0 |
| 1975 | 1,024 |  | 1,982 | 5 | 0 | 0 | 0 |
| 1976 | 924 |  | 2,911 | 0 | 0 | 0 | 0 |
| 1977 | 100 |  | 4,335 | 0 | 0 | 0 | 0 |
| 1978 | 400 |  | 3,500 | 0 | 0 | 0 | 0 |
| 1979 | 850 |  | 3,000 | 0 | 0 | 0 | 0 |
| 1980 | 587 |  | 2,100 | 100 | 0 | 0 | 0 |
| 1981 | 586 |  | 4,697 | 200 | 144 | 0 | 4 |
| 1982 | 618 |  | 4,948 | 40 | 60 | 0 | 0 |
| 1983 | 851 | 215 | 4,649 | 3 | 77 | 26 | 46 |
| 1984 | 643 | 59 | 5,327 | 1 | 62 | 0 | 2 |
| 1985 | 793 | 94 | 7,287 | 3 | 35 | 4 | 9 |
| 1986 | 1,026 | 569 | 4,208 | 2 | 0 | 12 | 2 |
| 1987 | 1,183 | 183 | 2,979 | 3 | 0 | 8 | 2 |
| 1988 | 1,178 | 197 | 2,177 | 5 | 0 | 3 | 3 |
| 1989 | 1,078 | 115 | 2,360 | 6 | 0 | 0 | 0 |
| 1990 | 633 | 259 | 3,022 | 17 | 0 | 0 | 11 |
| 1991 | 753 | 310 | 4,439 | 10 | 0 | 0 | 0 |
| 1992 | 911 | 131 | 4,431 | 5 | 0 | 0 | 3 |
| 1993 | 929 | 142 | 7,041 | 0 | 0 | 0 | 2 |
| 1994 | 698 | 191 | 4,167 | 4 | 0 | 0 | 9 |
| 1995 | 570 | 244 | 5,490 | 0 | 0 | 7 | 62 |
| 1996 | 722 | 156 | 6,918 | 2 | 0 | 3 | 30 |
| 1997 | 1,155 | 94 | 6,365 | 0 | 0 | 0 | 0 |
| 1998 | 538 | 95 | 5,586 | 0 | 0 | 0 | 0 |
| 1999 | 765 | 463 | 4,874 | 0 | 0 | 0 | 0 |
| 2000 | 1,109 | 386 | 6,107 | 3 | 0 | 0 | 14 |
| 2001 | 665 | 44 | 5,241 | 0 | 0 | 0 | 0 |
| 2002 | 927 | 366 | 6,390 | 0 | 0 | 0 | 0 |
| 2003 | 682 | 373 | 6,595 | 0 | 0 | 0 | 0 |
| 2004 | 1,425 | 497 | 6,862 | 4 | 0 | 0 | 0 |
| Averages |  |  |  |  |  |  |  |
| $72-04{ }^{\text {b }}$ | 874 | 236 | 4,592 | 13 | 11 | 2 | 6 |
| 95-04 | 856 | 272 | 6,043 | 1 | 0 | 1 | 11 |
| 2005 | 94 | 800 | 5,333 | 0 | 0 | 0 | 0 |

${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated
jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$.
${ }^{\mathrm{b}}$ Chinook averages only since 1983 when large fish and jacks were recorded separately.

Appendix B. 18. Stock specific sockeye catches in the Canadian upper river commercial and Aboriginal fisheries in the Stikine River, 1972-2005.

| Year | Upper River Commercial |  |  |  |  | Aboriginal Fishery |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Tahltan |  | Tahltan | Tuya | Mainstem | Tahltan |  |
|  | Tahltan | Tuya | Mainstem | Wild | Planted |  |  |  | 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 |  |  |
| $1979{ }^{\text {a }}$ |  |  |  |  |  | 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 |  |  |
| $1984{ }^{\text {b }}$ |  |  |  |  |  | 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 | 3,346 | 2,549 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 72-04 | 748 |  | 84 |  |  | 3,546 |  | 400 |  |  |
| 95-04 | 635 | 304 | 74 | 495 | 140 | 3,502 | 2,132 | 409 | 2,710 | 757 |
| 2005 | 582 | 13 | 10 | 437 | 145 | 5,099 | 71 | 164 | 3,845 | 1,254 |

${ }^{\text {a }}$ Catches in 1979 were included in the lower river commercial catches.
${ }^{\mathrm{b}}$ There was no commercial fishery in 1984.

Appendix B. 19. Salmon and steelhead trout catch in the combined Canadian net fisheries in the Stikine River, 1972-2005.

| ESSR catches not included. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Catch |  |  |  |  |  |  |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |
| 1972 | 0 |  | 4,373 | 0 | 0 | 0 | 0 |
| 1973 | 200 |  | 3,670 | 0 | 0 | 0 | 0 |
| 1974 | 100 |  | 3,500 | 0 | 0 | 0 | 0 |
| 1975 | 1,202 |  | 2,252 | 50 | 0 | 0 | 0 |
| 1976 | 1,160 |  | 3,644 | 13 | 0 | 0 | 0 |
| 1977 | 162 |  | 6,310 | 0 | 0 | 0 | 0 |
| 1978 | 500 |  | 5,000 | 0 | 0 | 0 | 0 |
| 1979 | 1,562 | 63 | 13,534 | 10,720 | 1,994 | 424 | 264 |
| 1980 | 2,231 |  | 20,919 | 6,769 | 756 | 771 | 362 |
| 1981 | 1,404 |  | 27,017 | 2,867 | 3,857 | 1,128 | 284 |
| 1982 | 2,387 |  | 20,540 | 15,944 | 1,842 | 722 | 828 |
| 1983 | 1,418 | 645 | 21,120 | 6,173 | 1,120 | 304 | 714 |
| $1984{ }^{\text {b }}$ | 643 | 59 | 5,327 | 1 | 62 | 0 | 2 |
| 1985 | 1,111 | 185 | 25,464 | 2,175 | 2,356 | 536 | 240 |
| 1986 | 1,936 | 975 | 17,434 | 2,280 | 107 | 307 | 194 |
| 1987 | 2,201 | 444 | 9,615 | 5,731 | 646 | 459 | 219 |
| 1988 | 2,360 | 444 | 15,291 | 2,117 | 418 | 733 | 261 |
| 1989 | 2,669 | 289 | 20,032 | 6,098 | 825 | 674 | 127 |
| 1990 | 2,250 | 959 | 18,024 | 4,037 | 496 | 499 | 199 |
| 1991 | 1,511 | 660 | 22,763 | 2,648 | 394 | 208 | 71 |
| 1992 | 1,840 | 239 | 26,284 | 1,855 | 122 | 231 | 132 |
| 1993 | 1,803 | 308 | 47,197 | 2,616 | 29 | 395 | 67 |
| 1994 | 1,790 | 350 | 45,095 | 3,381 | 90 | 173 | 84 |
| 1995 | 1,646 | 860 | 53,467 | 3,418 | 48 | 263 | 270 |
| 1996 | 2,471 | 421 | 74,281 | 1,404 | 25 | 232 | 183 |
| 1997 | 4,483 | 286 | 65,559 | 401 | 269 | 222 | 33 |
| 1998 | 2,164 | 423 | 43,803 | 726 | 55 | 13 | 209 |
| 1999 | 2,916 | 1,264 | 38,055 | 181 | 11 | 8 | 14 |
| 2000 | 3,086 | 628 | 27,468 | 301 | 181 | 144 | 103 |
| 2001 | 1,491 | 103 | 25,600 | 233 | 78 | 56 | 30 |
| 2002 | 1,362 | 578 | 17,294 | 82 | 19 | 33 | 17 |
| 2003 | 1,396 | 1,057 | 58,784 | 190 | 850 | 112 | 0 |
| 2004 | 3,906 | 2,568 | 85,018 | 275 | 8 | 134 | 0 |
| Averages |  |  |  |  |  |  |  |
| $72-04^{\text {c }}$ | 2,278 | 677 | 26,477 | 2,506 | 505 | 266 | 149 |
| 95-04 | 2,492 | 819 | 48,933 | 721 | 154 | 122 | 86 |
| 2005 | 19,192 | 1,982 | 85,890 | 276 | 0 | 39 | 0 |

[^7]Appendix B. 20. Salmon catches in the Stikine River harvested under Canadian ESSR licenses, 19922005.

| Year | Tahltan |  |  | Tuya |
| :---: | :---: | :---: | :---: | :---: |
|  | Total | Wild | Planted |  |
| 1993 | 1,752 | 1,714 | 38 |  |
| 1994 | 6,852 | 5,682 | 1,170 |  |
| 1995 | 10,740 | 6,680 | 4,060 |  |
| 1996 | 14,339 | 12,667 | 1,672 | 216 |
| 1997 | 378 | 185 | 193 | 2,015 |
| 1998 | 390 | 255 | 135 | 6,103 |
| 1999 | 429 | 404 | 25 | 2,822 |
| 2000 | 406 | 324 | 82 | 1,283 |
| 2001 | 50 | 30 | 20 | 410 |
| 2002 | 400 | 285 | 115 | 501 |
| 2003 | 400 | 225 | 175 | 7,031 |
| 2004 | 420 | 225 | 195 | 1,675 |
| 2005 | 400 | 242 | 158 | 148 |
| Salmon taken for otolith samples when ESSR not operated. |  |  |  |  |
| 1996 | 407 | 360 | 47 |  |
| 1997 | 378 | 185 | 193 |  |
| 1998 | 390 | 255 | 135 |  |
| 1999 | 429 | 404 | 25 |  |
| 2000 | 406 | 324 | 82 |  |
| 2001 | 50 | 30 | 20 |  |
| 2002 | 400 | 285 | 115 |  |
| 2003 | 400 | 225 | 175 |  |
| 2004 | 420 | 225 | 195 |  |
| 2005 | 400 | 242 | 158 |  |

Appendix B. 21. Salmon and steelhead trout catches and effort in Canadian test fisheries in the Stikine River, 1985-2005.

| Year | Catches |  |  |  |  |  |  | Effort <br> Drift=\# <br> Set=hr. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead |  |
|  | Large | Jacks ${ }^{\text {a }}$ |  |  |  |  |  |  |
| Drift Test Fishery Catches |  |  |  |  |  |  |  |  |
| 1985 |  |  |  |  |  |  |  |  |
| 1986 | 27 | 12 | 412 | 226 | 8 | 25 | 0 | 405 |
| $1987{ }^{\text {b }}$ | 128 |  | 385 | 162 | 111 | 61 | 0 | 845 |
| 1988 | 168 | 14 | 325 | 75 | 9 | 33 | 7 | 720 |
| 1989 | 116 | 4 | 364 | 242 | 41 | 46 | 5 | 870 |
| 1990 | 167 | 6 | 447 | 134 | 5 | 29 | 6 | 673 |
| 1991 | 90 | 1 | 503 | 118 | 37 | 30 | 3 | 509 |
| 1992 | 135 | 27 | 393 | 75 | 13 | 23 | 7 | 312 |
| 1993 | 94 | 11 | 440 | 37 | 6 | 18 | 7 | 304 |
| 1994 | 43 | 4 | 179 | 71 | 6 | 20 | 7 | 175 |
| 1995 | 18 | 13 | 297 | 35 | 4 | 12 | 4 | 285 |
| 1996 | 42 | 5 | 262 | 55 | 4 | 55 | 10 | 245 |
| 1997 | 30 | 7 | 245 | 11 | 9 | 15 | 2 | 210 |
| 1998 | 25 | 11 | 190 | 207 | 20 | 40 | 24 | 820 |
| 1999 | 53 | 43 | 410 | 312 | 11 | 17 | 25 | 1,006 |
| 2000 | 59 | 4 | 374 | 60 | 9 | 45 | 23 | 694 |
| 2001 | 128 | 3 | 967 | 257 | 74 | 47 | 27 | 883 |
| 2002 | 63 | 50 | 744 | 306 | 14 | 31 | 20 | 898 |
| 2003 | 64 | 62 | 997 | 291 | 92 | 54 | 30 | 660 |
| 2004 | 29 | 41 | 420 | 352 | 15 | 80 | 40 | 778 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 78 | 18 | 440 | 159 | 26 | 36 | 13 | 594 |
| 95-04 | 51 | 24 | 491 | 189 | 25 | 40 | 21 | 648 |
| 2005 | 14 | 8 | 339 | 444 | 9 | 43 | 27 | 780 |


| Set Test Fishery Catches |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1985 |  |  | 1,340 |  |  |  |  |  |
| 1986 |  |  |  |  |  |  |  |  |
| $1987{ }^{\text {b }}$ | 61 |  | 1,283 | 620 | 587 | 193 | 0 | 1,456 |
| 1988 | 101 | 15 | 922 | 130 | 23 | 65 | 14 | 1,380 |
| 1989 | 101 | 20 | 1,243 | 502 | 249 | 103 | 17 | 1,392 |
| 1990 | 64 | 12 | 1,493 | 271 | 42 | 48 | 18 | 1,212 |
| 1991 | 77 | 15 | 1,872 | 127 | 197 | 48 | 1 | 1,668 |
| 1992 | 62 | 21 | 1,971 | 193 | 56 | 43 | 19 | 1,249 |
| 1993 | 85 | 11 | 1,384 | 136 | 6 | 63 | 6 | 1,224 |
| 1994 | 74 | 34 | 414 | 0 | 0 | 0 | 0 | 456 |
| 1995 | 61 | 35 | 850 | 166 | 5 | 41 | 14 | 888 |
| 1996 | 64 | 40 | 338 | 0 | 0 | 0 | 1 | 312 |
| 1997 |  |  |  |  |  |  |  |  |
| 1998 |  |  |  |  |  |  |  |  |
| 1999 | 49 | 16 | 803 | 64 | 6 | 10 | 11 | 1,577 |
| 2000 | 87 | 0 | 1,015 | 181 | 25 | 120 | 27 | 3,715 |
| 2001 | 56 | 7 | 2,223 | 1,078 | 124 | 61 | 61 | 2,688 |
| 2002 | 48 | 56 | 3,540 | 1,323 | 13 | 48 | 50 | 2,845 |
| 2003 | 14 | 91 | 2,173 | 525 | 200 | 85 | 56 | 1,116 |
| 2004 | 22 | 39 | 918 | 135 | 41 | 103 | 48 | 524 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 64 | 27 | 1,399 | 341 | 98 | 64 | 21 | 1,481 |
| 95-04 | 50 | 36 | 1,483 | 434 | 52 | 59 | 34 | 1,708 |
| 2005 | 19 | 13 | 1,312 | 271 | 62 | 50 | 45 | 396 |
| Additional Test Fishery Catches |  |  |  |  |  |  |  |  |
| 1992 | 417 | 134 | 594 | 0 | 0 | 0 | 0 | 85 |
| 1993 | 389 | 65 | 1,925 | 2 | 1 | 3 | 2 | 266 |
| 1994 | 178 | 40 | 840 | 0 | 0 | 0 | 0 | 131 |
| 1995 | 169 | 136 | 1,423 | 26 | 1 | 9 | 1 | 222 |
| 1996 | 192 | 31 | 712 | 0 | 0 | 0 | 0 | 138 |
| 1997 |  |  |  |  |  |  |  |  |
| 1998 |  |  |  |  |  |  |  |  |
| 1999 | 751 | 38 | 4,683 | 16 | 18 | 2 | 7 | 531 |
| 2000 | 787 | 14 | 989 | 195 | 0 | 9 | 26 | 1,427 |
| 2001 | 1,652 | 49 | 91 | 426 | 0 | 1 | 6 | 1,399 |
| 2002 | 1,545 | 217 | 128 | 1,116 | 0 | 1 | 21 | 2,048 |
| 2003 | 1,225 | 617 | 186 | 883 | 5 | 29 | 50 | 1,915 |


| 2004 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 664 | 122 | 1,052 | 242 | 2 | 5 | 10 | 742 |
| 95-04 | 722 | 127 | 1,006 | 296 | 3 | 6 | 12 | 868 |
| 2005 |  |  |  |  |  |  |  |  |
| Total Test Fishery Catches |  |  |  |  |  |  |  |  |
| 1985 | 0 | 0 | 1,340 | 0 | 0 | 0 | 0 |  |
| 1986 | 27 | 12 | 412 | 226 | 8 | 25 | 0 |  |
| 1987 | 189 | 30 | 1,668 | 782 | 698 | 254 | 0 |  |
| 1988 | 269 | 29 | 1,247 | 205 | 32 | 98 | 21 |  |
| 1989 | 217 | 24 | 1,607 | 744 | 290 | 149 | 22 |  |
| 1990 | 231 | 18 | 1,940 | 405 | 47 | 77 | 24 |  |
| 1991 | 167 | 16 | 2,375 | 245 | 234 | 78 | 4 |  |
| 1992 | 614 | 182 | 2,958 | 268 | 69 | 66 | 26 |  |
| 1993 | 568 | 87 | 3,749 | 175 | 13 | 84 | 15 |  |
| 1994 | 295 | 78 | 1,433 | 71 | 6 | 20 | 7 |  |
| 1995 | 248 | 184 | 2,570 | 227 | 10 | 62 | 19 |  |
| 1996 | 298 | 76 | 1,312 | 55 | 4 | 55 | 11 |  |
| 1997 | 30 | 7 | 245 | 11 | 9 | 15 | 2 |  |
| 1998 | 25 | 11 | 190 | 207 | 20 | 40 | 24 |  |
| 1999 | 853 | 97 | 5,896 | 392 | 35 | 29 | 43 |  |
| $2000^{\text {c }}$ | 933 | 18 | 2,378 | 436 | 34 | 174 | 76 |  |
| $2001{ }^{\text {c }}$ | 1,836 | 59 | 3,281 | 1,761 | 198 | 109 | 94 |  |
| $200{ }^{\text {c }}$ | 1,656 | 323 | 4,412 | 2,745 | 27 | 80 | 91 |  |
| 2003 | 1,303 | 770 | 3,356 | 1,699 | 297 | 168 | 136 |  |
| 2004 | 51 | 80 | 1,338 | 487 | 56 | 183 | 88 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 491 | 105 | 2,185 | 557 | 104 | 88 | 35 |  |
| 95-04 | 723 | 163 | 2,498 | 802 | 69 | 92 | 58 |  |
| 2005 | 33 | 21 | 1,651 | 715 | 71 | 93 | 72 |  |
| ${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$. <br> ${ }^{\text {b }} 1987$ jack chinook catch was for both set and drift nets. <br> ${ }^{\text {c }}$ Catch of large fish includes 226, 401, and 378 released fish in 2000-2002, respectively |  |  |  |  |  |  |  |  |

Appendix B. 22. Sockeye salmon stock proportions and catch by stock in the test fishery in the lower Stikine River, 1985-2005.
Stock composition based on: SPA 1985; average of SPA and GPA 1986-1988; egg diameter 1989-2005.

| Year | Catch |  |  |  |  | Proportions |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tahltan |  | Tuya | Main | Marked Tahltan | Tahltan |  |  | Tuya | Main |
|  | U.S. | Canada |  |  |  | U.S. | Canada | Ave ${ }^{\text {a }}$ |  |  |
| 1985 | 560 | 439 |  | 841 |  | 0.418 | 0.328 | 0.372 |  | 0.628 |
| 1986 | 164 | 127 |  | 267 |  | 0.398 | 0.308 | 0.352 |  | 0.648 |
| 1987 | 513 | 397 |  | 1,213 |  | 0.308 | 0.238 | 0.273 |  | 0.727 |
| 1988 | 408 | 295 |  | 895 |  | 0.327 | 0.237 | 0.282 |  | 0.718 |
| 1989 |  | 414 |  | 1,192 |  |  | 0.258 | 0.258 |  | 0.742 |
| 1990 |  | 822 |  | 1,058 |  |  | 0.454 | 0.454 |  | 0.546 |
| 1991 |  | 1,443 |  | 931 |  |  | 0.608 | 0.608 |  | 0.392 |
| 1992 |  | 1,912 |  | 1,046 |  |  | 0.646 | 0.646 |  | 0.354 |
| 1993 |  | 2,184 |  | 1,564 |  |  | 0.583 | 0.583 |  | 0.417 |
| 1994 |  | 1,228 |  | 205 |  |  | 0.857 | 0.857 |  | 0.143 |
| 1995 |  | 2,064 | 20 | 486 | 729 |  | 0.803 | 0.803 | 0.008 | 0.189 |
| 1996 |  | 875 | 116 | 321 | 108 |  | 0.667 | 0.667 | 0.088 | 0.245 |
| 1997 |  | 97 | 54 | 94 | 20 |  | 0.396 | 0.396 | 0.220 | 0.384 |
| 1998 |  | 70 | 51 | 69 | 4 |  | 0.368 | 0.368 | 0.268 | 0.363 |
| 1999 |  | 3,031 | 1,564 | 1,301 | 113 |  | 0.514 | 0.514 | 0.265 | 0.221 |
| 2000 |  | 605 | 982 | 791 | 94 |  | 0.254 | 0.254 | 0.413 | 0.333 |
| 2001 |  | 684 | 924 | 1,673 | 124 |  | 0.208 | 0.208 | 0.282 | 0.510 |
| 2002 |  | 1,726 | 694 | 1,992 | 402 |  | 0.391 | 0.391 | 0.157 | 0.451 |
| 2003 |  | 1,505 | 428 | 1,423 | 374 |  | 0.448 | 0.448 | 0.128 | 0.424 |
| 2004 |  | 686 | 44 | 608 | 277 |  | 0.510 | 0.510 | 0.033 | 0.457 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 85-04 |  |  |  |  |  |  |  | 0.462 | 0.186 | 0.445 |
| 95-04 |  |  |  |  |  |  |  | 0.456 | 0.186 | 0.358 |
| 2005 |  | 895 | 8 | 748 | 327 |  | 0.549 | 0.549 | 0.005 | 0.446 |

[^8]Appendix B. 23. Estimated proportion of inriver run comprised of Tahltan, Tuya, and mainstem sockeye stocks, 1979-2005.
Stock compositions based on: scale circuli counts 1979-1983; SPA in 1985; average of SPA and GPA 1986-1988; and egg diameter analysis in 1989-2006. 1994-2000 and 2003-2004 data from commercial catch. Estimates for 2001-2003 are from the test fishery and from 2004-2005 from the commercial fishery.

| Year | Tahltan |  | Average ${ }^{\text {a }}$ Tahltan | Tuya | Mainstem |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | U.S. | Canada |  |  |  |
| 1979 | 0.433 |  | 0.433 |  | 0.567 |
| 1980 | 0.305 |  | 0.305 |  | 0.695 |
| 1981 | 0.475 |  | 0.475 |  | 0.525 |
| 1982 | 0.618 |  | 0.618 |  | 0.382 |
| 1983 | 0.489 | 0.423 | 0.456 |  | 0.544 |
| 1984 | 0.635 | 0.394 | 0.493 |  | 0.507 |
| 1985 | 0.621 | 0.363 | 0.466 |  | 0.534 |
| 1986 | 0.398 | 0.500 | 0.449 |  | 0.551 |
| 1987 | 0.338 | 0.257 | 0.304 |  | 0.696 |
| 1988 | 0.209 | 0.122 | 0.172 |  | 0.828 |
| 1989 |  | 0.188 | 0.188 |  | 0.812 |
| 1990 |  | 0.417 | 0.417 |  | 0.583 |
| 1991 |  | 0.561 | 0.561 |  | 0.439 |
| 1992 |  | 0.496 | 0.496 |  | 0.504 |
| 1993 |  | 0.477 | 0.477 |  | 0.523 |
| 1994 |  | 0.606 | 0.606 |  | 0.394 |
| 1995 |  | 0.578 | 0.578 | 0.016 | 0.406 |
| 1996 |  | 0.519 | 0.519 | 0.104 | 0.377 |
| 1997 |  | 0.297 | 0.297 | 0.229 | 0.474 |
| 1998 |  | 0.309 | 0.309 | 0.348 | 0.344 |
| 1999 |  | 0.545 | 0.545 | 0.245 | 0.209 |
| 2000 |  | 0.260 | 0.260 | 0.391 | 0.349 |
| 2001 |  | 0.202 | 0.202 | 0.268 | 0.530 |
| 2002 |  | 0.360 | 0.360 | 0.141 | 0.498 |
| 2003 |  | 0.421 | 0.421 | 0.158 | 0.421 |
| 2004 |  | 0.674 | 0.664 | 0.026 | 0.311 |
| Averages |  |  |  |  |  |
| 79-04 |  |  | 0.426 |  | 0.500 |
| 95-04 |  |  | 0.415 | 0.193 | 0.392 |
| 2005 |  | 0.667 | 0.662 | 0.020 | 0.318 |

${ }^{\text {a }}$ Average proportions were from averages of weekly stock composition and migratory timing (from drift test fishery) estimates.
$\begin{array}{cccccc}\text { Appendix B. 24. Counts of adult sockeye salmon migrating through Tahltan Lake weir, 1959-2005. } \\ \text { Weir } & \text { Date of Arrival } & \text { Weir } & \text { Total } & \text { Brood- } & \text { Sample }\end{array}$

| Year | Weir <br> Instal | Date of Arrival |  |  | Weir Pulled | Total <br> Count | Broodstock | Sample <br> /ESSR | Spawners |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |  | Total | Wild | Plant |
| 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 |  |  |  |  |  |
| $1963{ }^{\text {a }}$ | 3-Aug |  |  |  |  | 1,780 |  |  |  |  |  |
| 1964 | 23-Jul | 26-Jul | 14-Aug | 25-Aug |  | 18,353 |  |  |  |  |  |
| $1965{ }^{\text {b }}$ | 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 | 04-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 | 03-Aug | 4-Sep | 6,076 | 1,717 | 406 | 3,953 | 3,152 | 801 |
| 2001 | 08-Jul | 19-Jul | 31-Jul | 09-Aug | 14-Sep | 14,811 | 2,386 | 50 | 12,375 | 7,475 | 4,900 |
| 2002 | 07-Jul | 12-Jul | 25-Jul | 08-Aug | 14-Sep | 17,740 | 3,051 | 400 | 14,289 | 10,490 | 3,799 |
| 2003 | 07-Jul | 11-Jul | 29-Jul | 08-Aug | 18-Sep | 53,933 | 3,946 | 400 | 49,587 | 27,893 | 21,694 |
| 2004 | 07-Jul | 12-Jul | 25-Jul | 10-Aug | 15-Sep | 63,372 | 4,243 | 420 | 58,709 | 28,715 | 29,994 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 59-04 | 09-Jul | 18-Jul | 30-Jul | 11-Aug | 05-Sep | 24,237 |  |  |  |  |  |
| 95-04 | 08-Jul | 14-Jul | 26-Jul | 11-Aug | 14-Sep | 28,664 | 3,291 | 2,795 | 22,578 | 14,747 | 7,830 |
| 2005 | 07-Jul | 11-Jul | 04-Aug | 25-Aug | 15-Sep | 43,446 | 3,424 | 400 | 39,622 | 23,202 | 16,420 |

${ }^{\text {a }}$ Daily counts unavailable.

Appendix B. 25. Aerial survey counts of Mainstem sockeye stocks in the Stikine River drainage, 19842005.

| The index represents the combined counts from eight spawning areas. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year | Chutine River | Scud <br> River | Porcupine Slough | Christina Creek | Craig River | Bronson Slough | Verrett Creek | Verrett Slough ${ }^{\text {b }}$ | Escape 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 |
| $2000^{\text {a }}$ | 47 | 86 | 86 |  |  | 32 | 0 | 90 | 341 |
| 2001 | 601 | 2,037 | 268 |  |  | 163 | 217 | 232 | 3,518 |
| 2002 | 239 | 216 | 95 |  |  | 13 | 353 | 0 | 916 |
| 2003 | 240 | 71 | 239 |  |  | 0 | 54 | 0 | 604 |
| 2004 | 245 | 262 | 56 |  |  | 0 | 85 | 0 | 648 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-04 | 166 | 407 | 87 | 34 | 25 | 47 | 181 | 86 | 968 |
| 95-04 | 201 | 410 | 108 |  |  | 38 | 121 | 94 | 972 |
| 2005 | 66 | 124 | 111 |  |  | 23 | 158 | 76 | 558 |

${ }^{\text {a }}$ Survey conditions were exceptionally poor; therefore, the counts probably did reflect relative abundance.
${ }^{\mathrm{b}}$ Verrett Slough inundated with turbid Iskut water since 2002.

Appendix B. 26. Estimates of sockeye salmon smolt migrating through Tahltan Lake smolt weir, 19842005.

| Year | Weir Installed | Date of Arrival |  |  | Total Count | Total <br> Estimate | Date and Expand | Smolt |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  | Natural | Hatchery |
| 1984 | 10-May | 11-May | 23-May | 06-Jun |  | 218,702 |  |  |  |
| 1985 | 25-Apr | 23-May | 31-May | 28-May |  | 613,531 |  |  |  |
| 1986 | 08-May | 10-May | 31-May | 07-Jun |  | 244,330 |  |  |  |
| $1987{ }^{\text {a }}$ | 07-May | 15-May | 23-May | 24-May |  | 810,432 |  |  |  |
| 1988 | 01-May | 08-May | 20-May | 06-Jun |  | 1,170,136 |  |  |  |
| 1989 | 05-May | 08-May | 22-May | 06-Jun |  | 580,574 |  |  |  |
|  |  |  |  |  |  |  | 6/14 |  |  |
| $1990{ }^{\text {b }}$ | 05-May | 15-May | 29-May | 05-Jun | 595,147 | 610,407 | $\begin{array}{r} 97.5 \% \\ 6 / 13 \end{array}$ |  |  |
| $1991{ }^{\text {c }}$ | 05-May | 14-May | 21-May | 30-May | 1,439,676 | 1,487,265 | $\begin{array}{r} 96.8 \% \\ 6 / 14 \end{array}$ | 1,220,397 | 266,868 |
| $1992{ }^{\text {d }}$ | 07-May | 13-May | 21-May | 27-May | 1,516,150 | 1,555,026 | 97.5\% | 750,702 | 804,324 |
| 1993 | 07-May | 11-May | 17-May | 22-May |  | 3,255,045 |  | 2,855,562 | 399,483 |
| 1994 | 08-May | 08-May | 16-May | 12-Jun |  | 915,119 |  | 620,809 | 294,310 |
| 1995 | 05-May | 06-May | 13-May | 11-Jun |  | 822,284 |  | 767,027 | 55,257 |
| 1996 | 11-May | 11-May | 20-May | 25-May |  | 1,559,236 |  | 1,408,020 | 151,216 |
| 1997 | 07-May | 11-May | 23-May | 30-May |  | 518,202 |  | 348,685 | 169,517 |
| 1998 | 07-May | 08-May | 25-May | 05-Jun |  | 540,866 |  | 326,420 | 214,446 |
| 1999 | 06-May | 10-May | 09-Jun | 15-Jun |  | 762,033 |  | 468,488 | 293,545 |
| 2000 | 07-May | 09-May | 22-May | 17-Jun |  | 619,274 |  | 355,618 | 263,656 |
| 2001 | 06-May | 07-May | 24-May | 18-Jun |  | 1,495,642 |  | 841,268 | 654,374 |
| 2002 | 06-May | 14-May | 27-May | 12-Jun |  | 1,873,598 |  | 1,042,435 | 831,163 |
| 2003 | 06-May | 11-May | 29-May | 06-Jun |  | 1,960,480 |  | 979,442 | 981,038 |
| 2004 | 06-May | 10-May | 21-May | 25-May |  | 2,116,701 |  | 825,513 | 1,291,188 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-04 | 05-May | 11-May | 23-May | 04-Jun |  | 1,129,947 |  | 915,028 | 476,456 |
| 95-04 | 06-May | 09-May | 24-May | 07-Jun |  | 1,226,832 |  | 736,292 | 490,540 |
| 2005 | 06-May | 07-May | 17-May | 25-May |  | 1,843,804 |  | 943,929 | 899,875 |

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

Appendix B. 27. Weir counts of Chinook salmon at Little Tahltan River, 1985-2005.

| Year | Weir Installed | Date of Arrival |  |  | Total Count | Broodstock and Other | Natural Spawners | TotalNaturalSpawners |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | First | 50\% | 90\% |  |  |  |  |
| Large Chinook |  |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 30-Jul | 06-Aug | 3,114 |  | 3,114 |  |
| 1986 | 28-Jun | 29-Jun | 21-Jul | 05-Aug | 2,891 |  | 2,891 |  |
| 1987 | 28-Jun | 04-Jul | 24-Jul | 02-Aug | 4,783 |  | 4,783 |  |
| 1988 | 26-Jun | 27-Jun | 18-Jul | 03-Aug | 7,292 |  | 7,292 |  |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 4,715 |  | 4,715 |  |
| 1990 | 22-Jun | 29-Jun | 23-Jul | 04-Aug | 4,392 |  | 4,392 |  |
| 1991 | 23-Jun | 25-Jun | 20-Jul | 03-Aug | 4,506 |  | 4,506 |  |
| 1992 | 24-Jun | 04-Jul | 21-Jul | 30-Jul | 6,627 | -12 | 6,615 |  |
| 1993 | 20-Jun | 21-Jun | 16-Jul | 28-Jul | 11,449 | -12 | 11,437 |  |
| 1994 | 18-Jun | 28-Jun | 22-Jul | 02-Aug | 6,387 | -14 | 6,373 |  |
| 1995 | 17-Jun | 20-Jun | 17-Jul | 04-Aug | 3,072 | 0 | 3,072 |  |
| 1996 | 26-Jun | 08-Jul | 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 |  |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 21-Jun | 26-Jun | 07-Aug | 01-Aug | 6,298 |  | 6,294 |  |
| 95-04 | 18-Jun | 23-Jun | 23-Aug | 31-Jul | 6,981 | -5 | 6,976 |  |
| 2005 | 19-Jun | 21-Jun | 22-Jul | 4-Aug | 7,387 | 0 | 7,387 |  |
| Jack Chinook (fish <660 mid-eye fork length or <735 snout fork length) |  |  |  |  |  |  |  |  |
| 1985 | 03-Jul | 04-Jul | 31-Jul | 10-Aug | 316 |  |  | 3,430 |
| 1986 | 28-Jun | 03-Jul | 25-Jul | 06-Aug | 572 |  |  | 3,463 |
| 1987 | 28-Jun | 03-Jul | 26-Jul | 06-Aug | 365 |  |  | 5,148 |
| 1988 | 26-Jun | 27-Jun | 17-Jul | 02-Aug | 327 |  |  | 7,619 |
| 1989 | 25-Jun | 26-Jun | 23-Jul | 02-Aug | 199 |  |  | 4,914 |
| 1990 | 22-Jun | 05-Jul | 22-Jul | 30-Jul | 417 |  |  | 4,809 |
| 1991 | 23-Jun | 03-Jul | 24-Jul | 07-Aug | 313 |  |  | 4,819 |
| 1992 | 24-Jun | 12-Jul | 22-Jul | 30-Jul | 131 |  |  | 6,746 |
| 1993 | 20-Jun | 30-Jun | 14-Jul | 01-Aug | 60 |  |  | 11,497 |
| 1994 | 18-Jun | 02-Jul | 22-Jul | 05-Aug | 121 |  |  | 6,494 |
| 1995 | 17-Jun | 22-Jun | 28-Jul | 10-Aug | 135 |  |  | 3,207 |
| 1996 | 26-Jun | 02-Jul | 13-Jul | 14-Jul | 22 |  |  | 4,843 |
| 1997 | 14-Jun | 26-Jun | 21-Jul | 1-Aug | 54 |  |  | 5,601 |
| 1998 | 13-Jun | 26-Jun | 20-Jul | 7-Aug | 37 |  |  | 4,910 |
| 1999 | 18-Jun | 1-Jul | 23-Jul | 6-Aug | 202 |  |  | 4,935 |
| 2000 | 19-Jun | 23-Jun | 20-Jul | 5-Aug | 108 |  |  | 6,739 |
| 2001 | 20-Jun | 23-Jun | 27-Jul | 3-Aug | 269 |  |  | 9,999 |
| 2002 | 20-Jun | 26-Jun | 21-Jul | 7-Aug | 618 |  |  | 8,094 |
| 2003 | 20-Jun | 30-Jun | 21-Jul | 5-Aug | 334 |  |  | 6,826 |
| 2004 | 18-Jun | 21-Jun | 19-Jul | 31-Jul | 250 |  |  | 16,631 |
| Averages |  |  |  |  |  |  |  |  |
| 85-04 | 21-Jun | 29-Jun | 21-Jul | 03-Aug | 243 |  |  | 6,536 |
| 95-04 | 18-Jun | 26-Jun | 21-Jul | 02-Aug | 203 |  |  | 7,179 |
| 2005 | 19-Jun | 29-Jun | 23-Jul | 4-Aug | 231 |  |  | 7,618 |

Appendix B. 28. Index counts of Stikine Chinook escapements, 1979-2005.

| Counts do not include jacks (fish < 660mm mef length). |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver |  | Marine | Total | \% to L. | Little Tahltan |  | Tahltan Aerial | Beatty Aerial | Andrew Creek |  |
| Year | Run ${ }^{\text {a }}$ | Escape ${ }^{\text {a }}$ | Catch ${ }^{\text {b }}$ | Run ${ }^{\text {c }}$ | Tahltan | Weir | Aerial |  |  | Foot | Exp ${ }^{\text {d }}$ |
| 1979 |  |  |  |  |  |  | 1,166 | 2,118 |  | 382 |  |
| 1980 |  |  |  |  |  |  | 2,137 | 960 | 122 | 363 |  |
| 1981 |  |  |  |  |  |  | 3,334 | 1,852 | 558 | 654 |  |
| 1982 |  |  |  |  |  |  | 2,830 | 1,690 | 567 | 947 |  |
| 1983 |  |  |  |  |  |  | 594 | 453 | 83 | 444 |  |
| 1984 |  |  |  |  |  |  | 1,294 |  | 126 | 389 |  |
| 1985 |  |  |  |  |  | 3,114 | 1,598 | 1,490 | 147 | 319 |  |
| 1986 |  |  |  |  |  | 2,891 | 1,201 | 1,400 | 183 | 707 |  |
| 1987 |  |  |  |  |  | 4,783 | 2,706 | 1,390 | 312 | 788 |  |
| 1988 |  |  |  |  |  | 7,292 | 3,796 | 4,384 | 593 | 564 |  |
| 1989 |  |  |  |  |  | 4,715 | 2,527 |  | 362 | 530 |  |
| 1990 |  |  |  |  |  | 4,392 | 1,755 | 2,134 | 271 | 664 |  |
| 1991 |  |  |  |  |  | 4,506 | 1,768 | 2,445 | 193 | 400 |  |
| 1992 |  |  |  |  |  | 6,627 | 3,607 | 1,891 | 362 | 778 |  |
| 1993 |  |  |  |  |  | 11,437 | 4,010 | 2,249 | 757 | 1,060 |  |
| 1994 |  |  |  |  |  | 6,373 | 2,422 |  | 184 | 572 |  |
| 1995 |  |  |  |  |  | 3,072 | 1,117 | 696 | 152 | 338 |  |
| 1996 | 31,718 | 28,949 |  |  | 0.167 | 4,821 | 1,920 | 772 | 218 | 332 | 664 |
| 1997 | 31,509 | 26,996 |  |  | 0.205 | 5,547 | 1,907 | 260 | 218 | 300 | 478 |
| 1998 | 28,133 | 25,968 |  |  | 0.188 | 4,873 | 1,385 | 587 | 125 | 487 | 974 |
| 1999 | 23,716 | 19,947 |  |  | 0.237 | 4,733 | 1,379 |  |  | 605 | 1,210 |
| 2000 | 30,301 | 27,531 |  |  | 0.241 | 6,631 | 2,720 |  |  | 690 | 1,380 |
| 2001 | 66,646 | 62,543 |  |  | 0.156 | 9,730 | 4,258 |  |  | 1,447 | 2,108 |
| 2002 | 53,983 | 50,175 | 3,587 | 59,322 | 0.149 | 7,476 | 1,903 |  |  | 875 | 1,752 |
| 2003 | 43,022 | 39,965 | 3,895 | 48,107 | 0.162 | 6,492 | 1,903 |  |  | 595 | 1,190 |
| 2004 | 52,538 | 48,900 | 9,599 | 62,137 | 0.335 | 16,381 | 6,014 |  |  | 1,534 |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 79-04 |  |  |  |  |  | 6,294 | 2,374 | 1,575 | 291 | 645 | 79-04 |
| 95-04 |  |  |  |  |  | 6,976 | 2,511 | 579 | 178 | 720 | 95-04 |
| 2005 | 60,615 | 41,979 | 29,491 | 90,106 | 0.173 | 7,253 |  |  |  | 2,030 | 2005 |

${ }^{\text {a }}$ generated from a mark-recapture study (ADF\&G fisheries data series)
${ }^{\mathrm{b}}$ As reported in the mark-recapture reports
${ }^{\text {c }}$ From jointly accepted US and Canadian catch estimates
${ }^{\mathrm{d}}$ Terminal run does not included chinook catches taken beyond the Stikine River or Districts 106 and 108.

Appendix B. 29. Index counts of Stikine coho salmon escapements, 1984-2005.

| Missing data due to poor survey conditions. |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Year Date | Katete West | Katete | Craig | Verrett | Bronson Slough | Scud Slough | Porcupine | Christina | Total |
| 1984 10/30 | 147 | 313 | 0 | 15 | 42 |  |  |  | 517 |
| 1985 10/25 | 590 | 1,217 | 735 | 39 | 0 | 924 | 365 |  | 3,870 |
| 1988 10/28 | 32 | 227 |  | 175 |  | 97 | 53 | 0 | 584 |
| 1989 10/29 | 336 | 896 | 992 | 848 | 120 | 707 | 90 | 55 | 4,044 |
| 1990 10/30 | 94 | 548 | 810 | 494 |  | 664 | 430 |  | 3,040 |
| 1991 10/29 | 302 | 878 | 985 | 218 |  | 221 | 352 |  | 2,956 |
| 1992 10/29 | 295 | 1,346 | 949 | 320 |  | 462 | 316 |  | 3,688 |
| 1993 10/30 |  |  |  |  |  | 206 | 324 |  |  |
| 1994 11/1-2 | 28 | 652 | 1,026 | 466 |  | 448 | 1,105 |  | 3,725 |
| 1995 10/30 | 211 | 208 | 1,419 | 574 |  | 621 | 719 |  | 3,752 |
| 1996 10/30 | 163 | 232 | 205 | 549 |  | 630 | 1,466 |  | 3,245 |
| 1997 11/01 | 2 | 0 | 19 | 116 |  | 272 | 648 |  | 1,057 |
| 1998 10/30 | 14 | 63 | 141 | 282 |  | 143 | 450 |  | 1,093 |
| 1999 11/05 | 163 | 773 | 891 | 490 |  | 661 | 894 |  | 3,872 |
| 2000 11/2-3 |  |  |  | 5 |  | 95 | 206 |  | 306 |
| 2001 11/2-3 | 207 | 1,401 | 3,121 | 708 |  | 1,571 | 397 |  | 7,405 |
| 2002 11/05 | 806 | 2,642 | 4,488 | 1,695 |  | 1,389 | 1,626 |  | 12,646 |
| 2003 no surveys conducted due to inclement survey conditions |  |  |  |  |  |  |  |  |  |
| $2004{ }^{\text {a }}$ | 78 | 762 | 19 | 959 |  | 173 | 1,009 |  | 3,000 |
| Average |  |  |  |  |  |  |  |  |  |
| 84-04 | 217 | 760 | 1,053 | 468 | 54 | 546 | 615 | 28 | 3,459 |
| 95-04 | 206 | 760 | 1,288 | 598 |  | 617 | 824 |  | 4,042 |
| 2005 | 300 | 1,195 | 444 | 353 |  | 218 | 689 |  | 3,199 |

${ }^{\text {a }}$ Veiwing conditions at the Craig River site were poor in 2004.

Appendix B. 30. Stikine River sockeye salmon run size, 1979-2005.

| Catches include test fishery catches. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver Run |  |  | Inriver | b | Marine | Total |
| Year | Canada | U.S. | Average ${ }^{\text {a }}$ | Catch | Escapement | Catch | Run |
| 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 | 42,324 | 111,085 |
| 1983 | 77,260 | 66,838 | 71,683 | 21,120 | 50,563 | 5,770 | 77,453 |
| 1984 | 95,454 | 59,168 | 76,211 | 5,327 | 70,884 | 7,721 | 83,932 |
| 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 | 68,197 | 57,460 | 101,258 | 226,915 |
| 1998 |  |  | 90,459 | 50,486 | 39,973 | 30,989 | 121,448 |
| 1999 |  |  | 65,879 | 47,202 | 18,677 | 58,735 | 124,614 |
| 2000 |  |  | 53,145 | 31,535 | 21,610 | 25,359 | 78,504 |
| 2001 |  |  | 103,755 | 29,341 | 74,414 | 23,500 | 127,255 |
| 2002 |  |  | 68,635 | 22,607 | 46,028 | 8,076 | 76,711 |
| 2003 |  |  | 189,415 | 69,571 | 119,844 | 46,552 | 235,967 |
| 2004 |  |  | 168,176 | 88,451 | 79,725 | 122,592 | 290,768 |
| Averages |  |  |  |  |  |  |  |
| 79-04 |  |  | 103,699 | 36,435 | 67,265 | 44,706 | 148,406 |
| 95-04 |  |  | 119,941 | 56,154 | 63,787 | 69,307 | 189,248 |
| 2005 |  |  | 168,176 | 88,089 | 80,087 | 92,362 | 260,538 |
| 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 | 20,696 | 63,189 |
| 1983 |  |  | 32,684 | 11,428 | 21,256 | 5,067 | 37,752 |
| 1984 |  |  | 37,571 | 4,794 | 32,777 | 3,060 | 40,632 |
| 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 | 25,214 | 12,105 | 43,408 | 80,727 |
| 1998 |  |  | 27,941 | 15,673 | 12,268 | 7,086 | 35,027 |
| 1999 |  |  | 35,918 | 25,599 | 10,319 | 23,431 | 59,349 |
| 2000 |  |  | 13,803 | 8,133 | 5,670 | 5,340 | 19,143 |
| 2001 |  |  | 20,985 | 6,224 | 14,761 | 6,339 | 27,324 |
| 2002 |  |  | 24,736 | 7,396 | 17,340 | 2,055 | 26,791 |
| 2003 |  |  | 81,808 | 28,275 | 53,533 | 16,298 | 98,106 |
| 2004 |  |  | 125,677 | 62,725 | 62,952 | 91,535 | 217,213 |
| 79-04 |  |  | 47,734 | 19,484 | 28,250 | 24,965 | 72,699 |
| 95-04 |  |  | 54,618 | 28,750 | 25,869 | 39,459 | 94,078 |
| 2005 |  |  | 110,903 | 67,857 | 43,046 | 63,714 | 174,617 |
| 79-04 |  |  | 47,734 | 19,484 | 28,250 | 24,965 | 72,699 |

-Continued-

Appendix B.30. Page 2 of 2.

| Catches include test fishery catches. |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Inriver Run |  |  | Inriver | b | Marine | Total |
| Year | Canada | U.S. | Average ${ }^{\text {a }}$ | Catch | Escapement | Catch | Run |
| 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 | 8,985 | 18,798 | 12,968 | 40,751 |
| 2002 |  |  | 9,707 | 7,020 | 2,687 | 4,058 | 13,765 |
| 2003 |  |  | 30,020 | 17,465 | 12,555 | 8,760 | 38,780 |
| 2004 |  |  | 4,359 | 3,645 | 714 | 4,257 | 8,616 |
| Averages |  |  |  |  |  |  |  |
| 95-04 |  |  | 19,037 | 11,972 | 7,064 | 13,200 | 32,237 |
| 2005 |  |  | 3,337 | 1,677 | 1,660 | 5 | 3,342 |
| 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 | 21,628 | 47,895 |
| 1983 |  |  | 38,999 | 9,692 | 29,307 | 703 | 39,701 |
| 1984 |  |  | 38,640 | 533 | 38,107 | 4,660 | 43,300 |
| 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 |  |  | 77,587 | 23,831 | 53,756 | 21,494 | 99,081 |
| 2004 |  |  | 38,140 | 22,080 | 16,059 | 26,799 | 64,939 |
| Averages |  |  |  |  |  |  |  |
| 79-04 |  |  | 48,643 | 12,346 | 36,298 | 14,664 | 63,307 |
| 95-04 |  |  | 45,961 | 15,704 | 30,257 | 15,516 | 61,477 |
| 2005 |  |  | 53,935 | 18,554 | 35,381 | 28,643 | 82,579 |

[^9]Appendix C. 1. Weekly salmon catch and effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet), commercial drift gillnet fishery, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Boats | Days <br> Open | Boat <br> Days |
|  |  | Large | Jacks |  |  |  |  |  |  |  |
| District 111 catches |  |  |  |  |  |  |  |  |  |  |
| 19 | 1-May | 1198 | 45 | 0 | 0 | 0 | 0 | 47 | 2.0 | 94 |
| 20 | 8-May | 1717 | 127 | 0 | 0 | 0 | 0 | 64 | 3.0 | 192 |
| 21 | 15-May | 4167 | 232 | 0 | 0 | 0 | 0 | 73 | 3.0 | 219 |
| 22 | 22-May | 5036 | 328 | 1 | 0 | 0 | 0 | 80 | 4.0 | 320 |
| 23 | 29-May | 4105 | 208 | 70 | 0 | 0 | 5 | 86 | 3.0 | 258 |
| 24 | 5-Jun | 2,814 | 214 | 308 | 3 | 0 | 11 | 70 | 3.0 | 210 |
| 25 | 12-Jun | 1,356 | 110 | 964 | 0 | 0 | 26 | 47 | 2.0 | 94 |
| 26 | 19-Jun | 562 | 18 | 2,598 | 41 | 467 | 481 | 49 | 3.0 | 147 |
| 27 | 26-Jun | 567 | 14 | 3,872 | 68 | 20,043 | 1,874 | 61 | 3.0 | 183 |
| 28 | 3-Jul | 200 | 5 | 6,340 | 138 | 46,457 | 6,572 | 50 | 3.0 | 150 |
| 29 | 10-Jul | 35 | 2 | 5,428 | 101 | 40,166 | 8,631 | 51 | 3.0 | 153 |
| 30 | 17-Jul | 164 | 2 | 8,182 | 882 | 29,577 | 22,095 | 54 | 3.0 | 162 |
| 31 | 24-Jul | 19 | 0 | 8,074 | 858 | 17,778 | 27,748 | 76 | 3.0 | 228 |
| 32 | 31-Jul | 20 | 1 | 22,769 | 1,576 | 19,586 | 18,125 | 82 | 3.0 | 246 |
| 33 | 7-Aug | 11 | 0 | 15,516 | 1,797 | 6,110 | 4,189 | 84 | 3.0 | 252 |
| 34 | 14-Aug | 26 | 5 | 9,218 | 645 | 1,305 | 1,337 | 48 | 3.0 | 144 |
| 35 | 21-Aug | 0 | 0 | 2,419 | 1,733 | 24 | 446 | 25 | 3.0 | 75 |
| 36 | 28-Aug | 0 | 0 | 892 | 3,010 | 0 | 473 | 24 | 3.0 | 72 |
| 37 | 4-Sep | 1 | 0 | 449 | 3,682 | 0 | 699 | 29 | 3.0 | 87 |
| 38 | 11-Sep | 1 | 0 | 139 | 2,850 | 0 | 349 | 24 | 3.0 | 72 |
| 39 | 18-Sep | 0 | 0 | 13 | 1,411 | 0 | 109 | 9 | 3.0 | 27 |
| 40 | 25-Sep | 0 | 0 | 2 | 1,318 | 0 | 38 | 8 | 3.0 | 24 |
| 41 | 2-Oct | 0 | 0 | 0 | 612 | 0 | 2 | 6 | 3.0 | 18 |
| Total |  | 21,999 | 1,311 | 87,254 | 20,725 | 181,513 | 93,210 |  | 68.0 | 3,427 |


| 19 | 1-May | 62 | 0 |  | 0 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 8-May | 0 | 0 |  | 0 |  |  |
| 21 | 15-May | 29 | 0 |  | 0 |  |  |
| 22 | 22-May | 73 | 0 |  | 0 |  |  |
| 23 | 29-May | 187 | 0 |  | 0 |  |  |
| 24 | 5-Jun | 226 | 0 |  | 0 |  |  |
| 25 | 12-Jun | 47 | 0 |  | 0 |  |  |
| 26 | 19-Jun | 0 | 0 |  | 0 |  |  |
| 27 | 26-Jun | 180 | 0 |  | 0 |  |  |
| 28 | 3-Jul | 9 | 0 |  | 0 |  |  |
| 29 | 10-Jul | 0 | 0 |  | 0 |  |  |
| 30 | 17-Jul | 0 | 0 |  | 0 |  |  |
| 31 | 24-Jul | 0 | 0 |  | 0 |  |  |
| 32 | 31-Jul | 3 | 0 |  | 0 |  |  |
| 33 | 7-Aug | 0 | 0 |  | 0 |  |  |
| 34 | 14-Aug | 1 | 0 |  | 0 |  |  |
| 35 | 21-Aug | 0 | 0 |  | 0 |  |  |
| 36 | 28-Aug | 0 | 0 |  | 0 |  |  |
| 37 | 4-Sep | 0 | 0 |  | 240 |  |  |
| 38 | 11-Sep | 0 | 0 |  | 46 |  |  |
| 39 | 18-Sep | 0 | 0 |  | 124 |  |  |
| Total |  | 815 | 0 | 0 | 463 | 0 | 0 |

-Continued-

Appendix C.1. Page 2. of 2.

| Week | Start | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum |  | Days | Boat |
|  |  | Large | Jacks |  |  |  |  | Boats | Open | Days |


| Catches not including Alaskan hatchery contribution: |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | 1-May | 1,136 | 45 |  | 0 |  |  |  |  |  |
| 20 | 8-May | 1,717 | 127 |  | 0 |  |  |  |  |  |
| 21 | 15-May | 4,138 | 232 |  | 0 |  |  |  |  |  |
| 22 | 22-May | 4,963 | 328 |  | 0 |  |  |  |  |  |
| 23 | 29-May | 3,918 | 208 |  | 0 |  |  |  |  |  |
| 24 | 5-Jun | 2,588 | 214 |  | 3 |  |  |  |  |  |
| 25 | 12-Jun | 1,309 | 110 |  | 0 |  |  |  |  |  |
| 26 | 19-Jun | 562 | 18 |  | 41 |  |  |  |  |  |
| 27 | 26-Jun | 387 | 14 |  | 68 |  |  |  |  |  |
| 28 | 3-Jul | 191 | 5 |  | 138 |  |  |  |  |  |
| 29 | 10-Jul | 35 | 2 |  | 101 |  |  |  |  |  |
| 30 | 17-Jul | 164 | 2 |  | 882 |  |  |  |  |  |
| 31 | 24-Jul | 19 | 0 |  | 858 |  |  |  |  |  |
| 32 | 31-Jul | 17 | 1 |  | 1,576 |  |  |  |  |  |
| 33 | 7-Aug | 11 | 0 |  | 1,797 |  |  |  |  |  |
| 34 | 14-Aug | 25 | 5 |  | 645 |  |  |  |  |  |
| 35 | 21-Aug | 0 | 0 |  | 1,733 |  |  |  |  |  |
| 36 | 28-Aug | 0 | 0 |  | 3,010 |  |  |  |  |  |
| 37 | 4-Sep | 1 | 0 |  | 3,442 |  |  |  |  |  |
| 38 | 11-Sep | 1 | 0 |  | 2,804 |  |  |  |  |  |
| 39 | 18-Sep | 0 | 0 |  | 1,287 |  |  |  |  |  |
| Total |  | 21,184 | 1,311 | 0 | 20,262 | 0 | 0 |  |  |  |
| Subdistrict 111-32 Catches (Taku Inlet) |  |  |  |  |  |  |  |  |  |  |
| 19 | 1-May | 1,198 | 45 | 0 | 0 | 0 | 0 | 47 | 2.0 | 94 |
| 20 | 8-May | 1,717 | 127 | 0 | 0 | 0 | 0 | 64 | 3.0 | 192 |
| 21 | 15-May | 4,167 | 232 | 0 | 0 | 0 | 0 | 73 | 3.0 | 219 |
| 22 | 22-May | 5,036 | 328 | 1 | 0 | 0 | 0 | 80 | 4.0 | 320 |
| 23 | 29-May | 4,105 | 208 | 70 | 0 | 0 | 5 | 86 | 3.0 | 258 |
| 24 | 5-Jun | 2,814 | 214 | 308 | 3 | 0 | 11 | 70 | 3.0 | 210 |
| 25 | 12-Jun | 1,356 | 110 | 964 | 0 | 0 | 26 | 47 | 2.0 | 94 |
| 26 | 19-Jun | 562 | 18 | 2,598 | 41 | 467 | 481 | 49 | 3.0 | 147 |
| 27 | 26-Jun | 560 | 14 | 3,792 | 67 | 19,654 | 1,811 | 61 | 3.0 | 183 |
| 28 | 3-Jul | 193 | 5 | 6,002 | 130 | 43,222 | 4,263 | 49 | 3.0 | 147 |
| 29 | 10-Jul | 22 | 2 | 3,538 | 64 | 28,175 | 3,755 | 47 | 2.0 | 94 |
| 30 | 17-Jul | 158 | 0 | 4,477 | 459 | 19,504 | 13,840 | 53 | 2.0 | 106 |
| 31 | 24-Jul | 14 | 0 | 5,896 | 430 | 13,005 | 12,101 | 62 | 2.0 | 124 |
| 32 | 31-Jul | 13 | 0 | 15,892 | 1,170 | 12,928 | 13,307 | 68 | 3.0 | 204 |
| 33 | 7-Aug | 4 | 0 | 5,650 | 1,083 | 525 | 2,403 | 43 | 3.0 | 129 |
| 34 | 14-Aug | 1 | 2 | 2,805 | 401 | 293 | 738 | 28 | 3.0 | 84 |
| 35 | 21-Aug | 0 | 0 | 1,713 | 1,523 | 18 | 354 | 20 | 3.0 | 60 |
| 36 | 28-Aug | 0 | 0 | 582 | 3,003 | 0 | 470 | 23 | 3.0 | 69 |
| 37 | 4-Sep | 1 | 0 | 405 | 3,217 | 0 | 621 | 26 | 3.0 | 78 |
| 38 | 11-Sep | 1 | 0 | 139 | 2,850 | 0 | 349 | 23 | 3.0 | 69 |
| 39 | 18-Sep | 0 | 0 | 13 | 1,239 | 0 | 109 | 8 | 3.0 | 24 |
| Total |  | 21,922 | 1,305 | 54,847 | 17,610 | 137,791 | 54,684 |  | 65.0 | 2,947 |
| Subdistrict 111-34 Catches (Port Snettisham) |  |  |  |  |  |  |  |  |  |  |
| 32 | 31-Jul | 2 | 1 | 3,354 | 142 | 4,418 | 985 | 16 | 3.0 | 48 |
| 33 | 7-Aug | 4 | 0 | 7,256 | 461 | 5,258 | 1,267 | 44 | 3.0 | 132 |
| 34 | 14-Aug | 15 | 0 | 4,540 | 141 | 737 | 415 | 24 | 3.0 | 72 |
| 35-37 | 21-Aug | 0 | 0 | 645 | 511 | 0 | 105 | 5 | 3.0 | 15 |
| Total |  | 21 | 1 | 15,795 | 1,255 | 10,413 | 2,772 |  | 12.0 | 267 |

[^10]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, 2005.

| Does not include Port Snettisham harvests. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | King | Little |  | Tatsamenie |  | Total Taku | Crescent | Speel | Wild <br> Snett. | U.S. <br> Hatch. |
| Week | Kuthai | Salmon | Trapper | Mainstem | Wild | Planted |  |  |  |  |  |
| 23-24 | 0.183 | 0.116 | 0.228 | 0.320 | 0.000 | 0.000 | 0.846 | 0.014 | 0.135 | 0.148 | 0.006 |
| 25 | 0.183 | 0.116 | 0.228 | 0.320 | 0.000 | 0.000 | 0.846 | 0.014 | 0.135 | 0.148 | 0.006 |
| 26 | 0.183 | 0.116 | 0.228 | 0.320 | 0.000 | 0.000 | 0.846 | 0.014 | 0.135 | 0.148 | 0.006 |
| 27 | 0.118 | 0.087 | 0.122 | 0.479 | 0.000 | 0.000 | 0.805 | 0.017 | 0.159 | 0.176 | 0.018 |
| 28 | 0.050 | 0.043 | 0.169 | 0.492 | 0.000 | 0.002 | 0.757 | 0.030 | 0.164 | 0.195 | 0.049 |
| 29 | 0.000 | 0.032 | 0.132 | 0.456 | 0.005 | 0.008 | 0.633 | 0.056 | 0.152 | 0.208 | 0.159 |
| 30 | 0.000 | 0.033 | 0.000 | 0.535 | 0.026 | 0.004 | 0.599 | 0.044 | 0.091 | 0.136 | 0.265 |
| 31 | 0.000 | 0.026 | 0.000 | 0.467 | 0.063 | 0.008 | 0.563 | 0.065 | 0.059 | 0.124 | 0.313 |
| 32 | 0.000 | 0.000 | 0.083 | 0.437 | 0.036 | 0.012 | 0.568 | 0.078 | 0.093 | 0.171 | 0.261 |
| 33 | 0.000 | 0.000 | 0.035 | 0.445 | 0.037 | 0.005 | 0.522 | 0.024 | 0.085 | 0.109 | 0.370 |
| 34 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 35 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 36 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 37 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 38 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 39 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| 40 | 0.000 | 0.000 | 0.096 | 0.452 | 0.180 | 0.026 | 0.753 | 0.026 | 0.003 | 0.029 | 0.218 |
| Total | 0.021 | 0.024 | 0.082 | 0.456 | 0.045 | 0.009 | 0.636 | 0.048 | 0.095 | 0.143 | 0.221 |

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, 2005.

| Does not inlcude Port Snettisham harvests. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Kuthai | KingSalmon | Little | Mainstem | Tatsamenie |  | Total |  |  | Wild | U.S. |
|  |  |  | Trapper |  | Wild | Planted | Taku | Crescent | Speel | Snett. | Hatch |
| 23-24 | 72 | 45 | 89 | 125 | 0 | 0 | 332 | 5 | 53 | 58 | 2 |
| 25 | 176 | 112 | 220 | 308 | 0 | 0 | 816 | 13 | 130 | 143 | 6 |
| 26 | 474 | 301 | 592 | 831 | 0 | 0 | 2,198 | 35 | 350 | 385 | 15 |
| 27 | 456 | 335 | 471 | 1,855 | 0 | 1 | 3,118 | 66 | 618 | 683 | 71 |
| 28 | 318 | 271 | 1,072 | 3,122 | 0 | 15 | 4,798 | 191 | 1,042 | 1,234 | 308 |
| 29 | 0 | 172 | 717 | 2,475 | 28 | 44 | 3,437 | 306 | 824 | 1,130 | 861 |
| 30 | 0 | 271 | 0 | 4,379 | 217 | 36 | 4,903 | 363 | 748 | 1,111 | 2,168 |
| 31 | 0 | 209 | 0 | 3,767 | 510 | 61 | 4,546 | 524 | 475 | 999 | 2,529 |
| 32 | 0 | 0 | 1,620 | 8,481 | 702 | 224 | 11,028 | 1,514 | 1,804 | 3,318 | 5,069 |
| 33 | 0 | 0 | 293 | 3,674 | 302 | 41 | 4,309 | 197 | 699 | 896 | 3,055 |
| 34 | 0 | 0 | 449 | 2,113 | 841 | 120 | 3,523 | 123 | 14 | 137 | 1,018 |
| 35 | 0 | 0 | 204 | 961 | 383 | 55 | 1,603 | 56 | 6 | 62 | 463 |
| 36 | 0 | 0 | 56 | 263 | 105 | 15 | 438 | 15 | 2 | 17 | 127 |
| 37 | 0 | 0 | 39 | 183 | 73 | 10 | 305 | 11 | 1 | 12 | 88 |
| 38 | 0 | 0 | 13 | 63 | 25 | 4 | 105 | 4 | 0 | 4 | 30 |
| 39 | 0 | 0 | 1 | 6 | 2 | 0 | 10 | 0 | 0 | 0 | 3 |
| 40 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total | 1,495 | 1,715 | 5,837 | 32,606 | 3,188 | 627 | 45,469 | 3,423 | 6,766 | 10,190 | 15,813 |

Appendix C. 4. Weekly salmon and steelhead trout catch and effort in the Canadian commercial fishery in the Taku River, 2005.

| Week | Start <br> Date | Catch |  |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead | Ave. <br> Permits | DaysFished | Permit Days |
|  |  | Large ${ }^{\text {a }}$ | Small |  |  |  |  |  |  |  |  |
| 19 | 1-May | 515 | 24 | 0 | 0 |  |  |  | 8.00 | 3.00 | 24.00 |
| 20 | 8-May | 281 | 17 | 0 | 0 |  |  |  | 7.33 | 3.00 | 22.00 |
| 21 | 15-May | 530 | 70 | 0 | 0 |  |  |  | 7.00 | 4.00 | 28.00 |
| 22 | 22-May | 1247 | 123 | 0 | 0 |  |  |  | 9.00 | 5.00 | 45.00 |
| 23 | 29-May | 1463 | 92 | 1 | 0 |  |  |  | 10.00 | 5.00 | 50.00 |
| 24 | 5-Jun | 1277 | 141 | 37 | 0 |  |  |  | 9.50 | 4.00 | 38.00 |
| 25 | 12-Jun | 758 | 108 | 222 | 0 |  |  |  | 9.00 | 3.00 | 27.00 |
| 26 | 19-Jun | 356 | 55 | 1,012 | 0 | 0 | 0 | 0 | 10.00 | 3.00 | 30.00 |
| 27 | 26-Jun | 528 | 109 | 1,886 | 0 | 0 | 0 | 0 | 11.67 | 3.00 | 35.00 |
| 28 | 3-Jul | 302 | 54 | 1,019 | 37 | 0 | 0 | 0 | 8.75 | 4.00 | 35.00 |
| 29 | 10-Jul | 85 | 11 | 1,641 | 46 | 0 | 0 | 0 | 14.00 | 2.00 | 28.00 |
| 30 | 17-Jul | 39 | 11 | 1,809 | 113 | 0 | 0 | 0 | 13.00 | 3.00 | 39.00 |
| 31 | 24-Jul | 9 | 5 | 3,193 | 289 | 0 | 0 | 0 | 13.67 | 3.00 | 41.00 |
| 32 | 31-Jul | 8 | 1 | 4,355 | 425 | 0 | 0 | 0 | 12.33 | 3.00 | 37.00 |
| 33 | 7-Aug | 1 | 0 | 2,668 | 502 | 0 | 0 | 0 | 10.67 | 3.00 | 32.00 |
| 34 | 14-Aug | 0 | 0 | 2,100 | 1,010 | 0 | 0 | 0 | 4.60 | 5.00 | 23.00 |
| 35 | 21-Aug | 0 | 0 | 1,279 | 1,019 | 0 | 0 | 0 | 4.00 | 3.00 | 12.00 |
| 36 | 28-Aug | 0 | 0 | 457 | 1,023 | 0 | 0 | 0 | 3.50 | 2.00 | 7.00 |
| 37 | 4-Sep | 0 | 0 | 18 | 176 |  |  |  | 1.00 | 2.00 | 2.00 |
| 38 | 11-Sep | 0 | 0 | 0 | 0 |  |  |  | 0.00 | 0.00 | 0.00 |
| 39 | 18-Sep | 0 | 0 | 0 | 0 |  |  |  | 0.00 | 0.00 | 0.00 |
| 40 | 25-Sep | 0 | 0 | 0 | 0 |  |  |  | 0.00 | 0.00 | 0.00 |
| 41 | 2-Oct | 0 | 0 | 0 | 284 |  |  |  | 1.20 | 5.00 | 6.00 |
| Total |  | 7,399 | 821 | 21,697 | 4,924 | 0 | 0 | 0 |  | 68 | 561 |

${ }^{\text {c }}$ Large Chinook are fish with mid-eye-to-fork-of-tail (MEF) length > 659 mm (mostly 3-5 ocean age fish).
${ }^{\text {b }}$ Prior to 2005, chinook catch was broken down into jacks and adults; 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, 2005.

|  | Start |  | King |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Week | Date | Kuthai | Little <br> Salmon | Trapper | Mainstem | Tatsamenie |  |
| $22-23$ | 29-May | 0.528 | 0.375 | 0.005 | 0.092 | 0.000 | 0.000 |
| 25 | 12-Jun | 0.420 | 0.002 | 0.036 | 0.541 | 0.000 | 0.000 |
| 26 | 19-Jun | 0.551 | 0.092 | 0.007 | 0.350 | 0.000 | 0.000 |
| 27 | 26-Jun | 0.426 | 0.211 | 0.037 | 0.325 | 0.000 | 0.000 |
| 28 | 3-Jul | 0.312 | 0.035 | 0.107 | 0.547 | -0.012 | 0.012 |
| 29 | 10-Jul | 0.199 | 0.114 | 0.186 | 0.470 | 0.031 | 0.000 |
| 30 | 17-Jul | 0.000 | 0.053 | 0.291 | 0.342 | 0.304 | 0.011 |
| 31 | 24-Jul | 0.000 | 0.002 | 0.301 | 0.512 | 0.185 | 0.000 |
| 32 | 31-Jul | 0.000 | 0.000 | 0.118 | 0.818 | 0.042 | 0.022 |
| 33 | 7-Aug | 0.000 | 0.000 | 0.186 | 0.730 | 0.063 | 0.021 |
| 34 | 14-Aug | 0.000 | 0.000 | 0.596 | 0.175 | 0.208 | 0.021 |
| 35 | 21-Aug | 0.000 | 0.000 | 0.129 | 0.231 | 0.620 | 0.020 |
| 36 | 28-Aug | 0.000 | 0.000 | 0.039 | 0.218 | 0.734 | 0.008 |
| 37 | 4-Sep | 0.000 | 0.000 | 0.039 | 0.218 | 0.734 |  |
| Total |  | 0.098 | 0.038 | 0.204 | 0.505 | 0.143 | 0.008 |

Appendix C. 6. Weekly stock-specific catch of sockeye salmon in the Canadian commercial fishery in the Taku River, 2005.

| Week | Start <br> Date | Kuthai | King Salmon | Little <br> Trapper | Mainstem | Tatsamenie |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Wild | Planted |
| 24 | 5-Jun | 20 | 14 | 0 | 3 | 0 | 0 |
| 25 | 12-Jun | 93 | 1 | 8 | 120 | 0 | 0 |
| 26 | 19-Jun | 558 | 93 | 7 | 354 | 0 | 0 |
| 27 | 26-Jun | 804 | 398 | 71 | 613 | 0 | 0 |
| 28 | 3-Jul | 318 | 36 | 109 | 557 | -12 | 12 |
| 29 | 10-Jul | 326 | 188 | 305 | 772 | 50 | 0 |
| 30 | 17-Jul | 0 | 95 | 526 | 618 | 549 | 20 |
| 31 | 24-Jul | 0 | 5 | 962 | 1,636 | 590 | 0 |
| 32 | 31-Jul | 0 | 0 | 514 | 3,563 | 184 | 95 |
| 33 | 7-Aug | 0 | 0 | 497 | 1,947 | 169 | 55 |
| 34 | 14-Aug | 0 | 0 | 1,251 | 367 | 438 | 45 |
| 35 | 21-Aug | 0 | 0 | 165 | 296 | 792 | 26 |
| 36 | 28-Aug | 0 | 0 | 18 | 100 | 336 | 4 |
| 37 | 4-Sep | 0 | 0 | 1 | 4 | 13 | 0 |
| Total |  | 2,119 | 829 | 4,433 | 10,950 | 3,108 | 257 |

Appendix C. 7. Weekly salmon and steelhead trout catch and effort in the Canadian test fishery in the Taku River, 2005.

${ }^{\text {a }}$ There was no test fishing during weeks 18-35 inclusive.
${ }^{\mathrm{b}}$ Large Chinook are fish with mid-eye-to-fork-of-tail (MEF) length $>659 \mathrm{~mm}$ (mostly 3-5 ocean age fish).

Appendix C. 8. Mark-recapture estimate of above border run of Chinook, sockeye, and coho salmon in the Taku River, 2005.


[^11]Appendix C. 9. Daily counts of adult sockeye salmon passing through Tatsamenie weir, 2005.

| Date | Count | Cumulative |  |
| :---: | :---: | :---: | :---: |
|  |  | Count | Percent |
| 11-Aug | ---- Weir Fish Tight ---- |  |  |
| 12-Aug | 0 | 0 | 0.0 |
| 13-Aug | 0 | 0 | 0.0 |
| 14-Aug | 2 | 2 | 0.1 |
| 15-Aug | 13 | 15 | 0.4 |
| 16-Aug | 7 | 22 | 0.7 |
| 17-Aug | 3 | 25 | 0.7 |
| 18-Aug | 15 | 40 | 1.2 |
| 19-Aug | 64 | 104 | 3.1 |
| 20-Aug | 12 | 116 | 3.4 |
| 21-Aug | 73 | 189 | 5.6 |
| 22-Aug | 97 | 286 | 8.5 |
| 23-Aug | 12 | 298 | 8.8 |
| 24-Aug | 34 | 332 | 9.8 |
| 25-Aug | 103 | 435 | 12.9 |
| 26-Aug | 89 | 524 | 15.5 |
| 27-Aug | 145 | 669 | 19.8 |
| 28-Aug | 57 | 726 | 21.5 |
| 29-Aug | 67 | 793 | 23.5 |
| 30-Aug | 78 | 871 | 25.8 |
| 31-Aug | 175 | 1,046 | 31.0 |
| 1-Sep | 3 | 1,049 | 31.1 |
| 2-Sep | 224 | 1,273 | 37.8 |
| 3-Sep | 134 | 1,407 | 41.7 |
| 4-Sep | 121 | 1,528 | 45.3 |
| 5-Sep | 161 | 1,689 | 50.1 |
| 6-Sep | 42 | 1,731 | 51.3 |
| 7-Sep | 134 | 1,865 | 55.3 |
| 8-Sep | 166 | 2,031 | 60.2 |
| 9-Sep | 83 | 2,114 | 62.7 |
| 10-Sep | 82 | 2,196 | 65.1 |
| 11-Sep | 75 | 2,271 | 67.3 |
| 12-Sep | 90 | 2,361 | 70.0 |
| 13-Sep | 30 | 2,391 | 70.9 |
| 14-Sep | 126 | 2,517 | 74.6 |
| 15-Sep | 46 | 2,563 | 76.0 |
| 16-Sep | 81 | 2,644 | 78.4 |
| 17-Sep | 42 | 2,686 | 79.7 |
| 18-Sep | 42 | 2,728 | 80.9 |
| 19-Sep | 34 | 2,762 | 81.9 |
| 20-Sep | 2 | 2,764 | 82.0 |
| 21-Sep | 41 | 2,805 | 83.2 |
| 22-Sep | 35 | 2,840 | 84.2 |
| 23-Sep | 148 | 2,988 | 88.6 |
| 24-Sep | 139 | 3,127 | 92.7 |
| 25-Sep | 7 | 3,134 | 92.9 |
| 26-Sep | 14 | 3,148 | 93.4 |
| 27-Sep | 17 | 3,165 | 93.9 |
| 28-Sep | 23 | 3,188 | 94.5 |
| 29-Sep | 42 | 3,230 | 95.8 |
| 30-Sep | 1 | 3,231 | 95.8 |
| 1-Oct | 29 | 3,260 | 96.7 |
| 2-Oct | 89 | 3,349 | 99.3 |
| 3-Oct | 12 | 3,361 | 99.7 |
| 4-Oct | 0 | 3,361 | 99.7 |
| 5-Oct | 11 | 3,372 | 100.0 |
| Counts | 3,372 |  |  |
| Outlet spawners | <15 |  |  |
| Broodstock ${ }^{\text {a }}$ | -927 |  |  |
| Spawners | 2,445 |  |  |

Appendix C. 10. Daily counts of adult sockeye salmon passing through Little Trapper Lake weir, 2005.

| Date | Cumulative |  |
| :---: | :---: | :---: |
|  | Count | Percent |
| 22-Jul |  |  |
| 23-Jul | 0 | 0.00 |
| 24-Jul | 0 | 0.00 |
| 25-Jul | 0 | 0.00 |
| 26-Jul | 0 | 0.00 |
| 27-Jul | 0 | 0.00 |
| 28-Jul | 27 | 0.17 |
| 29-Jul | 228 | 1.42 |
| 30-Jul | 534 | 3.34 |
| 31-Jul | 914 | 5.71 |
| 1-Aug | 2,188 | 13.67 |
| 2-Aug | 3,255 | 20.33 |
| 3-Aug | 4,173 | 26.07 |
| 4-Aug | 5,305 | 33.14 |
| 5-Aug | 6,314 | 39.44 |
| 6-Aug | 7,564 | 47.25 |
| 7-Aug | 8,787 | 54.89 |
| 8-Aug | 9,532 | 59.54 |
| 9-Aug | 10,126 | 63.25 |
| 10-Aug | 10,574 | 66.05 |
| 11-Aug | 11,265 | 70.37 |
| 12-Aug | 11,940 | 74.58 |
| 13-Aug | 12,193 | 76.16 |
| 14-Aug | 12,498 | 78.07 |
| 15-Aug | 12,836 | 80.18 |
| 16-Aug | 13,149 | 82.14 |
| 17-Aug | 13,286 | 82.99 |
| 18-Aug | 13,555 | 84.67 |
| 19-Aug | 13,712 | 85.65 |
| 20-Aug | 13,913 | 86.91 |
| 21-Aug | 14,073 | 87.91 |
| 22-Aug | 14,220 | 88.83 |
| 23-Aug | 14,304 | 89.35 |
| 24-Aug | 14,339 | 89.57 |
| 25-Aug | 14,376 | 89.80 |
| 26-Aug | 14,668 | 91.62 |
| 27-Aug | 15,024 | 93.85 |
| 28-Aug | 15,204 | 94.97 |
| 29-Aug | 15,314 | 95.66 |
| 30-Aug | 15,438 | 96.43 |
| 31-Aug | 15,537 | 97.05 |
| 1-Sep | 15,654 | 97.78 |
| 2-Sep | 15,724 | 98.22 |
| 3-Sep | 15,788 | 98.62 |
| 4-Sep | 15,871 | 99.14 |
| 5-Sep | 15,898 | 99.31 |
| 6-Sep | 15,927 | 99.49 |
| 7-Sep | 15,947 | 99.61 |
| 8-Sep | 15,962 | 99.71 |
| 9-Sep | 15,986 | 99.86 |
| 10-Sep | 16,001 | 99.95 |
| 11-Sep | 16,009 | 100.00 |
| 11-Sep |  |  |
| Spawners |  |  |

${ }^{\text {a }}$ Broodstock removals included 336 females and 295 males which were spawned successfully, 2 females and 4 males which did not survive holding, and 60 females and 11 males which were released unspawned after being held; it is not known if any of these released fish spawned successfully

Appendix C. 11. Daily counts of adult salmon passing through the King Salmon Lake weir, 2005.

| Date | Count | Cumulative Count | Cumulative Percent |
| :---: | :---: | :---: | :---: |
| 5-Jul | ---- Weir Fish Tight ---- |  |  |
| 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 | 16 | 16 | 0.02 |
| 20-Jul | 0 | 16 | 0.02 |
| 21-Jul | 28 | 44 | 0.04 |
| 22-Jul | 0 | 44 | 0.04 |
| 23-Jul | 0 | 44 | 0.04 |
| 24-Jul | 0 | 44 | 0.04 |
| 25-Jul | 0 | 44 | 0.04 |
| 26-Jul | 0 | 44 | 0.04 |
| 27-Jul | 0 | 44 | 0.04 |
| 28-Jul | 0 | 44 | 0.04 |
| 29-Jul | 0 | 44 | 0.04 |
| 30-Jul | 0 | 44 | 0.04 |
| 31-Jul | 0 | 44 | 0.04 |
| 1-Aug | 5 | 49 | 0.05 |
| 2-Aug | 3 | 52 | 0.05 |
| 3-Aug | 48 | 100 | 0.10 |
| 4-Aug | 57 | 157 | 0.15 |
| 5-Aug | 46 | 203 | 0.19 |
| 6-Aug | 49 | 252 | 0.24 |
| 7-Aug | 35 | 287 | 0.27 |
| 8-Aug | 59 | 346 | 0.33 |
| 9-Aug | 48 | 394 | 0.38 |
| 10-Aug | 126 | 520 | 0.50 |
| 11-Aug | 30 | 550 | 0.53 |
| 12-Aug | 84 | 634 | 0.61 |
| 13-Aug | 0 | 634 | 0.61 |
| 14-Aug | 0 | 634 | 0.61 |
| 15-Aug | 56 | 690 | 0.66 |
| 16-Aug | 47 | 737 | 0.70 |
| 17-Aug | 0 | 737 | 0.70 |
| 18-Aug | 90 | 827 | 0.79 |
| 19-Aug | 0 | 827 | 0.79 |
| 20-Aug | 27 | 854 | 0.82 |
| 21-Aug | 64 | 918 | 0.88 |
| 22-Aug | 0 | 918 | 0.88 |
| 23-Aug | 36 | 954 | 0.91 |
| 24-Aug | 13 | 967 | 0.92 |
| 25-Aug | 0 | 967 | 0.92 |
| 26-Aug | 44 | 1,011 | 0.97 |
| 27-Aug | 0 | 1,011 | 0.97 |
| 28-Aug | 35 | 1,046 | 1.00 |
| 29-Aug | 0 | 1,046 | 1.00 |
| 30-Aug | 0 | 1,046 | 1.00 |
| 31-Aug | 0 | 1,046 | 1.00 |
| 1-Sep | ---- Weir Removed ---- |  |  |
| Total | 1,046 |  |  |

Appendix C. 12. Daily counts of adult sockeye salmon passing through the Kuthai Lake weir, 2005.

| Date | Count | Cumulative Count | Cumulative Percent |
| :---: | :---: | :---: | :---: |
| 6-Jul | ----Weir Fish Tight ---- |  |  |
| 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 | 25 | 25 | 0.42 |
| 14-Jul | 19 | 44 | 0.73 |
| 15-Jul | 21 | 65 | 1.08 |
| 16-Jul | 108 | 173 | 2.88 |
| 17-Jul | 111 | 284 | 4.73 |
| 18-Jul | 20 | 304 | 5.06 |
| 19-Jul | 44 | 348 | 5.80 |
| 20-Jul | 140 | 488 | 8.13 |
| 21-Jul | 0 | 488 | 8.13 |
| 22-Jul | 548 | 1,036 | 17.26 |
| 23-Jul | 337 | 1,373 | 22.87 |
| 24-Jul | 84 | 1,457 | 24.27 |
| 25-Jul | 0 | 1,457 | 24.27 |
| 26-Jul | 84 | 1,541 | 25.67 |
| 27-Jul | 90 | 1,631 | 27.17 |
| 28-Jul | 220 | 1,851 | 30.83 |
| 29-Jul | 81 | 1,932 | 32.18 |
| 30-Jul | 150 | 2,082 | 34.68 |
| 31-Jul | 61 | 2,143 | 35.69 |
| 1-Aug | 8 | 2,151 | 35.83 |
| 2-Aug | 244 | 2,395 | 39.89 |
| 3-Aug | 149 | 2,544 | 42.37 |
| 4-Aug | 18 | 2,562 | 42.67 |
| 5-Aug | 63 | 2,625 | 43.72 |
| 6-Aug | 129 | 2,754 | 45.87 |
| 7-Aug | 73 | 2,827 | 47.09 |
| 8-Aug | 214 | 3,041 | 50.65 |
| 9 -Aug | 320 | 3,361 | 55.98 |
| 10-Aug | 187 | 3,548 | 59.09 |
| 11-Aug | 264 | 3,812 | 63.49 |
| 12-Aug | 84 | 3,896 | 64.89 |
| 13-Aug | 64 | 3,960 | 65.96 |
| 14-Aug | 25 | 3,985 | 66.37 |
| 15-Aug | 198 | 4,183 | 69.67 |
| 16-Aug | 45 | 4,228 | 70.42 |
| 17-Aug | 13 | 4,241 | 70.64 |
| 18-Aug | 55 | 4,296 | 71.55 |
| 19-Aug | 55 | 4,351 | 72.47 |
| 20-Aug | 98 | 4,449 | 74.10 |
| 21-Aug | 5 | 4,454 | 74.18 |
| 22-Aug | 15 | 4,469 | 74.43 |
| 23-Aug | 68 | 4,537 | 75.57 |
| 24-Aug | 15 | 4,552 | 75.82 |
| 25-Aug | 18 | 4,570 | 76.12 |
| 26-Aug | 7 | 4,577 | 76.23 |
| 27-Aug | 12 | 4,589 | 76.43 |
| 28-Aug | 307 | 4,896 | 81.55 |
| 29-Aug | 150 | 5,046 | 84.04 |
| 30-Aug | 327 | 5,373 | 89.49 |
| 31-Aug | 242 | 5,615 | 93.52 |
| 1-Sep | 147 | 5,762 | 95.97 |
| 2-Sep | 242 | 6,004 | 100.00 |
| 3-Sep | ---- Weir Removed ---- |  |  |
| Total count | 6,004 |  |  |
| Harvest above weir | 0 |  |  |
| Escapement | 6,004 |  |  |

Appendix C. 13. Daily counts of large (>659mm MEF length) Chinook salmon carcasses at the Nakina River weir, 2005.

| Date | Count |  |  |  | Cumulative |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Female | Male | Unknown | Combined | Count | Percent |
| 2-Aug | --- Weir Fish Tight ---- |  |  |  |  |  |
| 3-Aug | 5 | 3 | 0 | 8 | 8 | 0.00 |
| 4-Aug | 4 | 14 | 0 | 18 | 26 | 0.01 |
| 5-Aug | 9 | 24 | 0 | 33 | 59 | 0.03 |
| 6-Aug | 14 | 33 | 0 | 47 | 106 | 0.05 |
| 7-Aug | 11 | 32 | 0 | 43 | 149 | 0.07 |
| 8-Aug | 19 | 58 | 0 | 77 | 226 | 0.10 |
| 9-Aug | 27 | 68 | 0 | 95 | 321 | 0.14 |
| 10-Aug | 26 | 82 | 0 | 108 | 429 | 0.19 |
| 11-Aug | 45 | 88 | 0 | 133 | 562 | 0.25 |
| 12-Aug | 62 | 131 | 0 | 193 | 755 | 0.33 |
| 13-Aug | 92 | 186 | 2 | 280 | 1,035 | 0.46 |
| 14-Aug | 110 | 206 | 4 | 320 | 1,355 | 0.60 |
| 15-Aug | 75 | 132 | 1 | 208 | 1,563 | 0.69 |
| 16-Aug | 88 | 147 | 0 | 235 | 1,798 | 0.80 |
| 17-Aug | 78 | 103 | 16 | 197 | 1,995 | 0.88 |
| 18-Aug | 42 | 78 | 7 | 127 | 2,122 | 0.94 |
| 19-Aug | 32 | 43 | 2 | 77 | 2,199 | 0.97 |
| 20-Aug | 25 | 17 | 0 | 42 | 2,241 | 0.99 |
| 21-Aug | 2 | 4 | 2 | 8 | 2,249 | 0.99 |
| 22-Aug | 2 | 3 | 0 | 5 | 2,254 | 1.00 |
| 23-Aug | 3 | 4 | 0 | 7 | 2,261 | 1.00 |
| 24-Aug | ---- Weir Removed ---- |  |  |  |  |  |
| Total | 771 | 1,456 | 34 | 2,261 |  |  |

Appendix D. 1. Salmon catches and effort in the Alaskan District 111 and Subdistrict 111-32 (Taku Inlet) commercial drift gillnet fishery, 1960-2005.

| 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 ${ }^{\text {a }}$ | F. Chum ${ }^{\text {a }}$ | Steelhead | Days | Open |
| District 111 Catches |  |  |  |  |  |  |  |  |  |
| 1960 | 8,810 | 42,819 | 22,374 | 33,155 | 8,754 | 33,098 |  |  | 60.00 |
| 1961 | 7,434 | 45,981 | 15,486 | 41,455 | 8,578 | 15,855 |  |  | 62.00 |
| 1962 | 5,931 | 36,745 | 15,661 | 17,280 | 7,453 | 13,182 |  |  | 52.00 |
| 1963 | 2,652 | 24,119 | 10,855 | 21,392 | 12,335 | 7,779 |  |  | 54.00 |
| 1964 | 2,509 | 34,140 | 29,315 | 26,593 | 4,970 | 7,883 |  |  | 56.00 |
| 1965 | 4,170 | 27,569 | 32,667 | 2,768 | 3,842 | 7,691 |  |  | 63.00 |
| 1966 | 4,829 | 33,925 | 26,065 | 23,833 | 5,015 | 30,118 |  |  | 64.00 |
| 1967 | 5,417 | 17,735 | 40,391 | 12,372 | 2,183 | 20,651 |  |  | 53.00 |
| 1968 | 4,904 | 19,501 | 39,103 | 67,365 | 5,747 | 16,143 |  |  | 60.00 |
| 1969 | 6,986 | 41,169 | 10,802 | 73,927 | 4,851 | 10,198 | 369 | 1,518 | 41.50 |
| 1970 | 3,357 | 50,922 | 44,960 | 197,017 | 19,593 | 90,797 | 1,055 | 2,688 | 53.00 |
| 1971 | 6,958 | 66,181 | 41,830 | 31,484 | 31,813 | 59,332 | 631 | 3,053 | 55.00 |
| 1972 | 10,955 | 80,404 | 49,780 | 144,339 | 67,126 | 80,831 | 574 | 3,103 | 51.00 |
| 1973 | 9,799 | 85,317 | 35,453 | 58,186 | 33,296 | 75,949 | 554 | 3,286 | 41.00 |
| 1974 | 2,908 | 38,670 | 38,667 | 57,731 | 11,263 | 75,423 | 465 | 2,315 | 29.50 |
| 1975 | 2,182 | 32,513 | 1,185 | 9,567 | 2,091 | 587 | 89 | 1,084 | 15.50 |
| 1976 | 1,757 | 61,749 | 41,729 | 14,962 | 6,027 | 75,776 | 499 | 1,914 | 25.00 |
| 1977 | 1,068 | 70,097 | 54,917 | 88,578 | 8,995 | 52,107 | 359 | 2,258 | 27.00 |
| 1978 | 1,926 | 55,398 | 31,944 | 51,385 | 9,076 | 27,178 | 397 | 2,174 | 26.00 |
| 1979 | 3,701 | 122,148 | 16,194 | 152,836 | 5,936 | 55,261 | 243 | 2,269 | 28.83 |
| 1980 | 2,251 | 123,451 | 41,677 | 296,572 | 33,627 | 159,020 | 363 | 4,123 | 30.92 |
| 1981 | 1,721 | 49,942 | 26,711 | 254,856 | 22,546 | 53,892 | 262 | 2,687 | 30.00 |
| 1982 | 3,057 | 83,625 | 29,072 | 109,297 | 14,867 | 22,741 | 476 | 2,433 | 35.50 |
| 1983 | 888 | 31,821 | 21,455 | 66,239 | 6,160 | 9,104 | 183 | 1,274 | 33.00 |
| 1984 | 1,773 | 77,233 | 33,836 | 145,971 | 45,811 | 40,930 | 366 | 2,757 | 52.50 |
| 1985 | 2,636 | 88,077 | 55,597 | 311,248 | 58,972 | 47,748 | 499 | 3,264 | 48.00 |
| 1986 | 2,584 | 73,061 | 30,512 | 16,568 | 29,909 | 28,883 | 529 | 2,129 | 32.83 |
| 1987 | 2,076 | 75,212 | 35,219 | 363,439 | 57,280 | 64,380 | 272 | 2,514 | 34.75 |
| 1988 | 1,779 | 38,923 | 44,881 | 157,831 | 80,307 | 59,271 | 226 | 2,135 | 32.00 |
| 1989 | 1,811 | 74,019 | 51,812 | 180,597 | 18,022 | 18,955 | 215 | 2,333 | 41.00 |
| 1990 | 3,480 | 126,884 | 67,530 | 153,036 | 112,336 | 33,463 | 310 | 3,188 | 38.33 |
| 1991 | 3,217 | 109,877 | 126,436 | 74,183 | 147,404 | 13,771 | 69 | 4,145 | 57.00 |
| 1992 | 2,341 | 135,411 | 172,662 | 314,445 | 97,725 | 14,802 | 166 | 4,550 | 50.00 |
| 1993 | 6,748 | 171,556 | 65,536 | 17,081 | 156,033 | 10,447 | 52 | 3,827 | 43.00 |
| 1994 | 5,047 | 105,861 | 188,501 | 401,525 | 198,002 | 16,169 | 459 | 5,078 | 66.00 |
| 1995 | 4,660 | 103,377 | 83,626 | 41,269 | 339,178 | 10,920 | 128 | 4,034 | 49.00 |
| 1996 | 2,659 | 199,014 | 33,633 | 12,660 | 347,612 | 6,455 | 240 | 3,229 | 46.00 |
| 1997 | 2,804 | 94,745 | 3,515 | 51,424 | 173,804 | 3,060 |  | 2,107 | 33.00 |
| 1998 | 794 | 69,677 | 28,713 | 168,283 | 291,416 | 4,695 |  | 3,070 | 48.00 |
| 1999 | 1,841 | 79,425 | 17,273 | 59,316 | 429,213 | 4,639 |  | 2,841 | 59.00 |
| 2000 | 1,137 | 168,272 | 7,546 | 54,716 | 665,582 | 3,013 |  | 2,919 | 40.00 |
| 2001 | 1,696 | 290,450 | 22,529 | 122,829 | 235,276 | 1,693 | 0 | 4,731 | 54.00 |
| 2002 | 1,840 | 178,488 | 39,823 | 77,562 | 230,092 | 929 | 0 | 4,095 | 62.00 |
| 2003 | 1,465 | 205,433 | 23,707 | 112,395 | 169,214 | 1,206 | 0 | 3,977 | 73.50 |
| 2004 | 2,291 | 241,254 | 45,289 | 150,272 | 125,965 | 5,422 | 0 | 3,342 | 59.00 |
| Averages |  |  |  |  |  |  |  |  |  |
| 60-04 | 3,574 | 88,493 | 42,144 | 107,552 | 96,562 | 30,921 | 314 | 2,957 | 45.90 |
| 94-04 | 2,119 | 163,014 | 30,565 | 85,073 | 300,735 | 4,203 | 61 | 3,435 | 52.35 |
| 2005 | 21,999 | 87,254 | 20,725 | 181,513 | 89,757 | 3,453 |  | 3,427 | 68.00 |

-Continued-

Appendix D.1. Page 2 of 2.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Days |
|  | Chinook | Sockeye | Coho | Pink | S. Chum ${ }^{\text {a }}$ | F. Chum ${ }^{\text {a }}$ | Steelhead | Days | Open |
| Subdistrict 111-32 Catches (Taku Inlet) |  |  |  |  |  |  |  |  |  |
| 1960 | 8,763 | 26,641 | 20,282 | 26,777 | 4,566 | 28,720 |  | 1,680 | 60.00 |
| 1961 | 7,269 | 30,805 | 14,618 | 34,615 | 6,863 | 14,876 |  | 2,901 | 62.00 |
| 1962 | 5,719 | 25,969 | 13,699 | 10,006 | 5,418 | 11,812 |  | 1,568 | 52.00 |
| 1963 | 2,547 | 16,079 | 9,406 | 18,102 | 8,085 | 7,071 |  | 1,519 | 51.00 |
| 1964 | 2,482 | 28,873 | 28,603 | 22,177 | 3,919 | 7,822 |  | 1,491 | 56.00 |
| 1965 | 4,146 | 23,828 | 32,382 | 2,641 | 3,604 | 7,691 |  | 1,332 | 60.00 |
| 1966 | 4,817 | 28,301 | 24,153 | 22,490 | 4,350 | 27,327 |  | 1,535 | 58.00 |
| 1967 | 5,351 | 14,537 | 39,983 | 11,619 | 1,569 | 20,463 |  | 1,663 | 50.00 |
| 1968 | 4,862 | 16,952 | 37,570 | 55,527 | 4,646 | 15,597 |  | 2,420 | 60.00 |
| 1969 | 6,874 | 38,260 | 10,131 | 66,991 | 4,233 | 9,926 | 366 | 1,413 | 42.00 |
| 1970 | 3,073 | 41,476 | 37,587 | 143,886 | 14,208 | 76,795 | 996 | 2,425 | 53.00 |
| 1971 | 6,753 | 62,459 | 38,571 | 30,765 | 31,110 | 54,696 | 627 | 2,849 | 55.00 |
| 1972 | 9,633 | 62,877 | 38,568 | 78,673 | 45,955 | 60,097 | 544 | 2,797 | 51.00 |
| 1973 | 9,525 | 80,063 | 29,770 | 55,234 | 30,817 | 61,025 | 513 | 3,135 | 41.00 |
| 1974 | 2,280 | 26,256 | 27,670 | 32,684 | 6,469 | 51,063 | 378 | 1,741 | 30.00 |
| 1975 | 1,998 | 28,201 | 429 | 8,084 | 1,639 | 31 | 77 | 986 | 15.00 |
| 1976 | 1,693 | 51,674 | 31,641 | 11,868 | 3,766 | 42,674 | 450 | 1,582 | 23.00 |
| 1977 | 754 | 47,512 | 48,403 | 67,072 | 5,436 | 43,595 | 318 | 1,879 | 27.00 |
| 1978 | 1,642 | 43,795 | 21,620 | 41,624 | 7,142 | 18,101 | 314 | 1,738 | 24.00 |
| 1979 | 3,016 | 103,043 | 12,741 | 114,324 | 4,317 | 46,142 | 225 | 2,011 | 29.00 |
| 1980 | 1,986 | 108,577 | 35,814 | 241,085 | 25,779 | 131,126 | 337 | 3,634 | 31.00 |
| 1981 | 1,325 | 39,963 | 20,936 | 98,524 | 10,407 | 40,212 | 233 | 1,740 | 22.00 |
| 1982 | 2,841 | 75,012 | 24,761 | 77,942 | 11,558 | 18,363 | 447 | 2,130 | 36.00 |
| 1983 | 689 | 25,957 | 17,665 | 40,996 | 3,171 | 7,813 | 172 | 1,065 | 31.00 |
| 1984 | 1,414 | 59,229 | 25,951 | 83,028 | 28,214 | 27,967 | 315 | 2,120 | 39.00 |
| 1985 | 2,152 | 70,160 | 45,106 | 176,710 | 35,897 | 40,530 | 436 | 2,116 | 37.00 |
| 1986 | 1,877 | 60,106 | 26,474 | 9,772 | 14,646 | 24,790 | 485 | 1,413 | 30.00 |
| 1987 | 1,534 | 54,436 | 23,342 | 200,203 | 31,992 | 28,891 | 197 | 1,517 | 30.00 |
| 1988 | 949 | 23,752 | 33,159 | 41,625 | 25,969 | 27,010 | 174 | 1,213 | 29.00 |
| 1989 | 1,606 | 68,104 | 44,034 | 141,385 | 15,254 | 15,491 | 183 | 1,909 | 36.00 |
| 1990 | 2,432 | 110,006 | 60,078 | 101,168 | 88,350 | 29,099 | 286 | 2,879 | 38.00 |
| 1991 | 2,614 | 96,006 | 118,902 | 44,347 | 97,577 | 12,279 | 63 | 3,324 | 52.00 |
| 1992 | 1,672 | 103,238 | 152,598 | 180,340 | 57,153 | 11,649 | 135 | 3,407 | 43.00 |
| 1993 | 4,413 | 144,982 | 58,062 | 8,801 | 101,356 | 7,760 | 46 | 3,372 | 43.00 |
| 1994 | 3,051 | 88,625 | 156,314 | 198,507 | 129,350 | 12,280 | 422 | 3,960 | 60.00 |
| 1995 | 3,497 | 81,266 | 70,826 | 18,469 | 192,557 | 8,786 | 119 | 3,061 | 45.00 |
| 1996 | 2,412 | 188,412 | 31,828 | 12,123 | 294,890 | 5,245 | 236 | 2,685 | 41.00 |
| 1997 | 2,724 | 84,115 | 2,993 | 38,794 | 143,354 | 1,936 |  | 1,761 | 30.00 |
| 1998 | 634 | 47,413 | 24,606 | 85,269 | 192,057 | 2,800 |  | 2,007 | 39.00 |
| 1999 | 1,762 | 68,914 | 14,086 | 43,958 | 327,706 | 2,643 |  | 2,563 | 58.00 |
| 2000 | 1,032 | 127,274 | 6,299 | 25,729 | 453,147 | 1,311 |  | 2,325 | 38.00 |
| 2001 | 1,290 | 179,683 | 12,647 | 49,174 | 141,715 | 1,012 |  | 3,635 | 55.00 |
| 2002 | 1,546 | 113,110 | 30,501 | 40,283 | 108,171 | 671 |  | 2,792 | 54.00 |
| 2003 | 1,386 | 130,303 | 20,577 | 77,459 | 106,373 | 894 |  | 2,685 | 64.50 |
| 2004 | 1,734 | 71,578 | 34,763 | 31,501 | 54,454 | 3,546 |  | 1,627 | 50.00 |
| Averages |  |  |  |  |  |  |  |  |  |
| 60-04 | 3,150 | 67,063 | 35,781 | 64,941 | 64,205 | 23,770 | 325 | 2,213 | 42.90 |
| 95-04 | 1,802 | 109,207 | 24,913 | 42,276 | 201,442 | 2,884 | 178 | 2,514 | 47.45 |
| 2005 | 21,922 | 54,847 | 17,610 | 137,791 | 49,595 | 5,084 |  | 2,947 | 65.00 |

${ }^{\text {a }}$ 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.

Appendix D. 2. Stock proportions and catches of sockeye salmon in the Alaska District 111 commercial drift gillnet fishery, 1983-2005.

| Week | Kuthai | $\begin{array}{r} \text { King } \\ \text { Salmon } \end{array}$ | Little Trapper |  | Mainstem | Tatsamenie |  | Total <br> Taku | Crescent | Speel | Wild Snett. | $\begin{array}{r} \text { U.S. } \\ \text { Hatch. } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wild | Planted |  | Wild | Planted |  |  |  |  |  |
| Proportions |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  | 0.755 |  |  | 0.245 |  |
| 1984 |  |  |  |  |  |  |  | 0.758 |  |  | 0.242 |  |
| 1985 |  |  |  |  |  |  |  | 0.838 |  |  | 0.162 |  |
| 1986 | 0.061 |  | 0.266 |  | 0.303 | 0.204 |  | 0.834 | 0.090 | 0.076 | 0.166 |  |
| 1987 | 0.078 |  | 0.234 |  | 0.376 | 0.031 |  | 0.720 | 0.157 | 0.123 | 0.280 |  |
| 1988 | 0.118 |  | 0.158 |  | 0.305 | 0.082 |  | 0.663 | 0.266 | 0.071 | 0.337 |  |
| 1989a | 0.077 |  | a |  | a | 0.156 |  | 0.849 | 0.051 | 0.100 | 0.152 |  |
| 1990 | 0.036 |  | 0.197 |  | 0.336 | 0.286 |  | 0.855 | 0.112 | 0.033 | 0.145 |  |
| 1991 | 0.039 |  | 0.297 |  | 0.373 | 0.232 |  | 0.941 | 0.059 | 0.000 | 0.059 |  |
| 1992 | 0.048 |  | 0.220 |  | 0.445 | 0.191 |  | 0.904 | 0.036 | 0.060 | 0.096 |  |
| 1993 | 0.062 |  | 0.328 |  | 0.308 | 0.123 |  | 0.822 | 0.069 | 0.109 | 0.178 |  |
| 1994 | 0.110 |  | 0.356 |  | 0.361 | 0.091 |  | 0.917 | 0.036 | 0.022 | 0.058 | 0.025 |
| 1995 | 0.046 |  | 0.214 | 0.010 | 0.428 | 0.153 | 0.029 | 0.880 | 0.018 | 0.075 | 0.093 | 0.026 |
| 1996 | 0.069 |  | 0.117 | 0.010 | 0.499 | 0.232 | 0.014 | 0.941 | 0.013 | 0.032 | 0.045 | 0.014 |
| 1997 | 0.067 |  | 0.170 | 0.011 | 0.282 | 0.286 | 0.011 | 0.826 | 0.027 | 0.026 | 0.053 | 0.120 |
| 1998 | 0.087 |  | 0.158 | 0.008 | 0.209 | 0.245 | 0.004 | 0.710 | 0.026 | 0.007 | 0.033 | 0.257 |
| 1999 | 0.176 |  | 0.259 | 0.003 | 0.235 | 0.119 | 0.005 | 0.797 | 0.049 | 0.023 | 0.072 | 0.131 |
| 2000 | 0.139 |  | 0.273 | 0.002 | 0.211 | 0.151 | 0.008 | 0.783 | 0.004 | 0.054 | 0.058 | 0.160 |
| 2001 | 0.076 |  | 0.130 | 0.000 | 0.268 | 0.207 | 0.031 | 0.713 | 0.014 | 0.032 | 0.046 | 0.241 |
| 2002 | 0.098 |  | 0.254 | 0.000 | 0.173 | 0.126 | 0.004 | 0.654 | 0.014 | 0.032 | 0.047 | 0.299 |
| 2003 | 0.087 | 0.016 | 0.225 | 0.000 | 0.398 | 0.033 | 0.004 | 0.755 | 0.009 | 0.047 | 0.064 | 0.181 |
| 2004 | 0.064 | 0.043 | 0.041 | 0.000 | 0.233 | 0.042 | 0.004 | 0.427 | 0.011 | 0.040 | 0.052 | 0.522 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-04 | 0.081 |  | 0.217 | 0.004 | 0.319 | 0.157 | 0.011 | 0.786 | 0.056 | 0.048 | 0.105 | 0.180 |
| 95-04 | 0.091 |  | 0.184 | 0.004 | 0.294 | 0.159 | 0.011 | 0.749 | 0.019 | 0.037 | 0.056 | 0.195 |
| 2005 | 0.021 | 0.024 | 0.082 | 0.000 | 0.456 | 0.045 | 0.009 | 0.636 | 0.048 | 0.095 | 0.143 | 0.221 |
| Catches |  |  |  |  |  |  |  |  |  |  |  |  |
| 1983 |  |  |  |  |  |  |  | 24,025 |  |  | 7,796 |  |
| 1984 |  |  |  |  |  |  |  | 58,543 |  |  | 18,690 |  |
| 1985 |  |  |  |  |  |  |  | 73,809 |  |  | 14,268 |  |
| 1986 | 4,489 |  | 19,441 |  | 22,104 | 14,900 |  | 60,934 | 6,610 | 5,516 | 12,127 |  |
| 1987 | 5,893 |  | 17,594 |  | 28,286 | 2,352 |  | 54,124 | 11,814 | 9,274 | 21,088 |  |
| 1988 | 4,598 |  | 6,153 |  | 11,865 | 3,194 |  | 25,811 | 10,365 | 2,748 | 13,112 |  |
| $1989{ }^{\text {a }}$ | 5,696 |  | , |  | a | 11,536 |  | 62,805 | 3,789 | 7,425 | 11,214 |  |
| 1990 | 4,539 |  | 24,952 |  | 42,676 | 36,332 |  | 108,499 | 14,242 | 4,143 | 18,385 |  |
| 1991 | 4,295 |  | 32,685 |  | 40,957 | 25,475 |  | 103,412 | 6,465 | 0 | 6,465 |  |
| 1992 | 6,543 |  | 29,818 |  | 60,224 | 25,853 |  | 122,438 | 4,912 | 8,060 | 12,972 |  |
| 1993 | 10,673 |  | 56,350 |  | 52,876 | 21,139 |  | 141,038 | 11,877 | 18,641 | 30,518 |  |
| 1994 | 11,638 |  | 37,644 |  | 38,179 | 9,585 |  | 97,046 | 3,859 | 2,319 | 6,178 | 2,637 |
| 1995 | 4,788 |  | 22,109 | 1,017 | 44,278 | 15,767 | 3,049 | 91,008 | 1,901 | 7,741 | 9,642 | 2,727 |
| 1996 | 13,742 |  | 23,307 | 1,920 | 99,231 | 46,148 | 2,859 | 187,207 | 2,544 | 6,416 | 8,960 | 2,848 |
| 1997 | 6,345 |  | 16,105 | 1,031 | 26,694 | 27,107 | 1,006 | 78,288 | 2,558 | 2,510 | 5,068 | 11,389 |
| 1998 | 6,055 |  | 11,018 | 570 | 14,560 | 17,040 | 250 | 49,493 | 1,784 | 500 | 2,284 | 17,900 |
| 1999 | 14,016 |  | 20,596 | 247 | 18,680 | 9,421 | 367 | 63,327 | 3,879 | 1,814 | 5,693 | 10,405 |
| 2000 | 23,357 |  | 45,977 | 279 | 35,451 | 25,347 | 1,301 | 131,712 | 621 | 9,088 | 9,709 | 26,851 |
| 2001 | 22,042 |  | 37,862 | 0 | 77,938 | 60,109 | 9,057 | 207,008 | 4,097 | 9,331 | 13,428 | 70,014 |
| 2002 | 17,474 |  | 45,308 | 0 | 30,819 | 22,449 | 660 | 116,710 | 2,559 | 5,779 | 8,338 | 53,440 |
| 2003 | 15,462 | 2,829 | 39,989 | 0 | 70,801 | 5,876 | 767 | 135,724 | 1,622 | 8,361 | 9,983 | 32,196 |
| 2004 | 11,413 | 7,579 | 7,307 | 0 | 41,342 | 7,501 | 676 | 75,818 | 2,028 | 7,124 | 9,152 | 92,756 |
| Average ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| 86-04 | 10,409 |  | 27,456 | 506 | 42,053 | 20,866 | 1,999 | 102,755 | 5,208 | 6,076 | 11,283 | 29,378 |
| 95-04 | 13,469 | 5,204 | 26,958 | 506 | 45,979 | 23,677 | 1,999 | 113,630 | 2,359 | 5,866 | 8,226 | 32,053 |
| 2005 | 1,495 | 1,715 | 5,837 | 0 | 32,606 | 3,188 | 627 | 45,468 | 3,423 | 6,766 | 10,189 | 15,813 |

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

Appendix D. 3. Proportion of wild Taku River sockeye salmon in the Alaskan District 111 commercial drift gillnet catch by week, 1983-2005.

| Data based on scale patterns and incidence of brain parasites and includes only wild fish. |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 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 |
| Average |  |  |  |  |  |  |  |  |  |  |  |
| 83-04 | 0.969 | 0.972 | 0.931 | 0.905 | 0.865 | 0.821 | 0.829 | 0.829 | 0.780 | 0.755 | 0.867 |
| 95-04 | 0.986 | 0.970 | 0.950 | 0.943 | 0.930 | 0.925 | 0.872 | 0.873 | 0.795 | 0.767 | 0.923 |
| 2005 | 0.851 | 0.851 | 0.851 | 0.820 | 0.795 | 0.750 | 0.814 | 0.818 | 0.765 | 0.826 |  |

Appendix D. 4. Salmon catch in the U.S. subsistence and personal use fisheries in the Taku River, 19672005.

The subsistence fishery was open 1967 to 1976 and 1985 and the personal use fishery was open 1989-2005. The harvests are miminum estimates because not all permits are filled out and returned.

| Year | Catch |  |  |  |  | Permits |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |
| 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 |
| Averages |  |  |  |  |  |  |
| 67-04 | 12 | 860 | 57 | 101 | 7 |  |
| 95-04 | 19 | 1,180 | 62 | 123 | 6 | 132 |
| 2005 | 32 | 1,150 | 134 | 155 | 15 | 132 |

Appendix D. 5. Salmon and steelhead trout catch and effort in the Canadian commercial fishery in the Taku River, 1979-2005.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead | Boat <br> Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ |
|  | Large | Jack |  |  |  |  |  |  |  |
| 1979 | 97 |  | 13,578 | 6,006 | 13,661 | 15,474 | 254 | 599 | 50 |
| 1980 | 225 |  | 22,602 | 6,405 | 26,821 | 18,516 | 457 | 476 | 39 |
| 1981 | 159 |  | 10,922 | 3,607 | 10,771 | 5,591 | 108 | 243 | 31 |
| 1982 | 54 |  | 3,144 | 51 | 202 | 3 | 1 | 38 | 13 |
| 1983 | 156 | 400 | 17,056 | 8,390 | 1,874 | 1,760 | 213 | 390 | 64 |
| 1984 | 294 | 221 | 27,242 | 5,357 | 6,964 | 2,492 | 367 | 288 | 30 |
| 1985 | 326 | 24 | 14,244 | 1,770 | 3,373 | 136 | 32 | 178 | 16 |
| 1986 | 275 | 77 | 14,739 | 1,783 | 58 | 110 | 48 | 148 | 17 |
| 1987 | 127 | 106 | 13,554 | 5,599 | 6,250 | 2,270 | 223 | 280 | 26 |
| 1988 | 555 | 186 | 12,014 | 3,123 | 1,030 | 733 | 86 | 185 | 15 |
| 1989 | 895 | 139 | 18,545 | 2,876 | 695 | 42 | 24 | 271 | 25 |
| 1990 | 1,258 | 128 | 21,100 | 3,207 | 378 | 12 | 22 | 295 | 28 |
| 1991 | 1,177 | 432 | 25,067 | 3,415 | 296 | 2 | 5 | 284 | 25 |
| 1992 | 1,445 | 147 | 29,472 | 4,077 | 0 | 7 | 15 | 291 | 27 |
| 1993 | 1,619 | 171 | 33,217 | 3,033 | 16 | 15 | 11 | 363 | 34 |
| 1994 | 2,065 | 235 | 28,762 | 14,531 | 168 | 18 | 232 | 497 | 74 |
| 1995 | 1,577 | 298 | 32,640 | 13,629 | 2 | 1 | 205 | 428 | 51 |
| 1996 | 3,331 | 144 | 41,665 | 5,028 | 0 | 0 | 98 | 415 | 65 |
| 1997 | 2,731 | 84 | 24,003 | 2,594 | 0 | 1 | 160 | 394 | 47 |
| 1998 | 1,107 | 227 | 19,038 | 5,090 | 0 | 2 | 176 | 299 | 42 |
| 1999 | 908 | 257 | 20,681 | 4,416 | 0 | 0 | 81 | 300 | 34 |
| 2000 | 1,576 | 87 | 28,009 | 4,395 | 0 | 0 | 192 | 351 | 39 |
| 2001 | 1,458 | 118 | 47,660 | 2,568 | 0 | 0 | 3 | 382 | 42 |
| 2002 | 1,561 | 291 | 31,053 | 3,082 | 0 | 0 | 2 | 286 | 33 |
| 2003 | 1,894 | 547 | 32,730 | 3,168 | 0 | 0 | 27 | 275 | 44 |
| 2004 | 2,082 | 335 | 20,148 | 5,966 | 0 | 0 | 0 | 294 | 40 |
| Averages |  |  |  |  |  |  |  |  |  |
| 79-04 | 1,114 | 212 | 23,188 | 4,737 | 2,791 | 1,815 | 117 | 317 | 37 |
| 95-04 | 1,823 | 239 | 29,763 | 4,994 | 0 | 0 | 94 | 342 | 44 |
| 2005 | 7,399 | 821 | 21,697 | 4,924 | 0 | 0 | 0 | 561 | 68 |

Appendix D. 6. Sockeye salmon stock proportions and catch by stock in the Canadian commercial fishery on the Taku River, 1986-2005.

| Year | Kuthai | King Salmon | Little Trapper |  | Mainstem | Tatsamenie |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Wild | Planted |  | Wild | Planted | Wild | Planted |
| Proportion |  |  |  |  |  |  |  |  |  |
| 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 |
| Average ${ }^{\text {b }}$ |  |  |  |  |  |  |  |  |  |
| 86-04 | 0.157 |  | 0.310 |  | 0.370 | 0.146 |  | 0.988 |  |
| 95-04 | 0.196 | 0.047 | 0.275 | 0.007 | 0.323 | 0.176 | 0.014 | 0.979 | 0.021 |
| 2005 | 0.098 | 0.038 | 0.204 | 0.000 | 0.505 | 0.143 | 0.012 | 0.784 | 0.216 |
| 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 |
| Average ${ }^{\text {b }}$ |  |  | 19 |  |  |  |  |  |  |
| 86-04 | 4,167 |  | 8,095 |  | 9,691 | 3,985 |  | 26,059 |  |
| 95-04 | 5,543 | 1,093 | 8,224 | 182 | 9,812 | 5,316 | 467 | 29,113 | 650 |
| 2005 | 2,119 | 829 | 4,433 | 0 | 10,951 | 3,108 | 257 | 17,007 | 4,690 |

[^12]Appendix D. 7. Salmon catches in the Canadian Aboriginal fishery on the Taku River, 1980-2005.

| Year | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Large | Jack |  |  |  |  |  |
| 1980 | 85 |  | 150 | 0 | 0 | 15 | 0 |
| 1981 |  |  |  |  |  |  |  |
| 1982 |  |  |  |  |  |  |  |
| 1983 | 9 |  | 0 | 0 | 0 | 0 | 0 |
| 1984 | 0 |  | 50 | 15 | 0 | 0 | 0 |
| 1985 | 4 |  | 167 | 22 | 0 | 0 | 0 |
| 1986 | 10 |  | 200 | 50 | 0 | 0 | 0 |
| 1987 | 0 |  | 96 | 113 | 0 | 0 | 0 |
| 1988 | 27 |  | 245 | 98 | 0 | 0 | 0 |
| 1989 | 6 |  | 53 | 146 | 0 | 0 | 0 |
| 1990 | 0 |  | 89 | 6 | 0 | 0 | 0 |
| 1991 | 0 |  | 150 | 20 | 0 | 0 | 0 |
| 1992 | 121 |  | 352 | 187 | 0 | 0 | 16 |
| 1993 | 25 |  | 140 | 8 | 0 | 0 | 0 |
| 1994 | 119 |  | 239 | 162 | 4 | 0 | 1 |
| 1995 | 70 |  | 71 | 109 | 0 | 7 | 4 |
| 1996 | 63 |  | 360 | 24 | 0 | 0 | 0 |
| 1997 | 103 |  | 349 | 96 | 0 | 0 | 0 |
| 1998 | 60 |  | 239 | 0 | 0 | 0 | 0 |
| 1999 | 50 |  | 382 | 471 | 0 | 0 | 0 |
| 2000 | 50 |  | 140 | 342 | 0 | 0 | 0 |
| 2001 | 125 |  | 210 | 500 | 0 | 25 | 5 |
| 2002 | 37 |  | 155 | 688 | 0 | 0 | 9 |
| 2003 | 277 | 237 | 267 | 416 | 4 | 0 | 0 |
| 2004 | 530 | 116 | 120 | 450 | 0 | 0 | 0 |
| Averages |  |  |  |  |  |  |  |
| 80-04 | 77 |  | 184 | 171 | 0 | 2 | 2 |
| 95-04 | 137 |  | 229 | 310 | 0 | 3 | 2 |
| 2005 | 212 | NA | 161 | 162 | 0 | 0 | 1 |

Appendix D. 8. Salmon and steelhead trout catch in the Canadian test fishery in the Taku River, 19872005.

| Year | Catch |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook |  | Sockeye | Coho | Pink | Chum | Steelhead |
|  | Large | Jack |  |  |  |  |  |
| 1987 |  |  | 237 | 807 |  |  |  |
| 1988 | 72 |  | 708 | 422 | 52 | 222 | 14 |
| 1989 | 31 |  | 207 | 1,011 | 0 | 13 | 26 |
| 1990 | 48 |  | 285 | 472 | 0 | 0 | 20 |
| 1991 | 0 |  | 163 | 2,004 | 3 | 295 | 41 |
| 1992 | 0 |  | 38 | 1,277 | 0 | 76 | 88 |
| $1993{ }^{\text {a }}$ | 0 |  | 166 | 1,593 | 0 | 50 | 13 |
| 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 | The 1 sockeye and 39 coho salmon caught in 1997 were released live. |  |  |  |  |  |  |
| 1998 | There was no Canadian test fishery in 1998. |  |  |  |  |  |  |
| $1999{ }^{\text {b }}$ | 577 | 2 | 88 | 688 | 0 | 0 | 48 |
| $2000^{\text {c }}$ | 1,312 | 87 | 319 | 710 | 0 | 0 | 19 |
| 2001 | 1,175 | 229 | 247 | 31 | 0 | 0 | 0 |
| 2002 | 1,311 | 355 | 518 | 32 | 0 | 0 | 9 |
| 2003 | 1,403 | 397 | 27 | 59 | 0 | 0 | 7 |
| 2004 | 1,489 | 294 | 91 | 3,268 | 0 | 0 | 0 |
| Averages |  |  |  |  |  |  |  |
| 87-04 | 618 |  | 238 | 952 | 5 | 55 | 24 |
| 93-04 | 1,211 | 227 | 215 | 798 | 0 | 0 | 14 |
| 2005 | 0 | 0 | 244 | 3,173 | 0 | 0 | 0 |

${ }^{\mathrm{a}}$ Incomplete harvest data.
${ }^{\mathrm{b}}$ In addition to these fish, 180 adult female chinook, one adult male chinook and four steelhead were captured and released live.
${ }^{\text {c }}$ In addition to these fish, 180 female chinook, 2,976 coho, 82 sockeye, 159 chum and 116 steelhead were captured and released live.

Appendix D. 9. Taku River sockeye salmon run size, 1984-2005.

| Year | Above Border M-R |  | Expanded |  |  |  |  | $\begin{aligned} & \text { U.S. } \\ & \text { Catch } \end{aligned}$ | Total <br> Run | $\begin{array}{r} \text { Exploit } \\ \text { Rate } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run | Start | Expansion |  | Run | Canada |  |  |  |  |
|  | Estimate | Date | Method | Factor | Estimate | Catch | Escape. |  |  |  |
| 1984 | 133,414 | 17-Jun | CPUE ${ }^{\text {a }}$ | 0.056 | 141,254 | 27,292 | 113,962 | 58,543 | 199,796 | 0.430 |
| 1985 | 118,160 | 16-Jun | CPUE ${ }^{\text {a }}$ | 0.047 | 123,974 | 14,411 | 109,563 | 74,729 | 198,703 | 0.449 |
| 1986 | 104,162 | 22-Jun | CPUE ${ }^{\text {a }}$ | 0.095 | 115,045 | 14,939 | 100,106 | 60,934 | 175,980 | 0.431 |
| 1987 | 87,554 | 21-Jun | CPUE ${ }^{\text {a }}$ | 0.088 | 96,023 | 13,887 | 82,136 | 55,154 | 151,178 | 0.457 |
| 1988 | 86,629 | 19-Jun | CPUE ${ }^{\text {b }}$ | 0.065 | 92,641 | 12,967 | 79,674 | 25,811 | 118,452 | 0.327 |
| 1989 | 99,467 | 18-Jun | CPUE ${ }^{\text {b }}$ | 0.128 | 114,068 | 18,805 | 95,263 | 63,367 | 177,435 | 0.463 |
| 1990 | 117,385 | 10-Jun | CPUE ${ }^{\text {b }}$ | 0.002 | 117,573 | 21,474 | 96,099 | 109,292 | 226,865 | 0.576 |
| 1991 | 153,773 | 9-Jun | CPUE ${ }^{\text {a }}$ | 0.007 | 154,873 | 25,380 | 129,493 | 104,931 | 260,103 | 0.502 |
| 1992 | 162,003 | 21-Jun | CPUE ${ }^{\text {a }}$ | 0.032 | 167,376 | 29,862 | 137,514 | 123,655 | 291,031 | 0.527 |
| 1993 | 138,523 | 13-Jun | CPUE ${ }^{\text {a }}$ | 0.026 | 142,148 | 33,523 | 108,625 | 142,239 | 284,387 | 0.618 |
| 1994 | 129,119 | 12-Jun | CPUE ${ }^{\text {a }}$ | 0.019 | 131,580 | 29,001 | 102,579 | 98,157 | 229,737 | 0.553 |
| 1995 | 145,264 | 11-Jun | CPUE ${ }^{\text {b }}$ | 0.008 | 146,450 | 32,711 | 113,739 | 91,998 | 238,448 | 0.523 |
| 1996 | 132,322 | 9-Jun | CPUE ${ }^{\text {b }}$ | 0.017 | 134,651 | 42,025 | 92,626 | 188,396 | 323,047 | 0.713 |
| 1997 | 93,816 | 3-May | CPUE ${ }^{\text {b }}$ | 0.017 | 95,438 | 24,352 | 71,086 | 79,341 | 174,779 | 0.593 |
| 1998 | 89,992 | 2-May | None |  | 89,992 | 19,277 | 70,715 | 50,646 | 140,638 | 0.497 |
| 1999 | 113,706 | 14-May | None |  | 113,706 | 21,151 | 92,555 | 64,581 | 178,287 | 0.481 |
| 2000 | 115,693 | 14-May | None |  | 115,693 | 28,468 | 87,225 | 132,846 | 248,539 | 0.649 |
| 2001 | 192,245 | 27-May | None |  | 192,245 | 47,958 | 144,287 | 208,470 | 400,715 | 0.640 |
| 2002 | 135,233 | 19-May | None |  | 135,233 | 31,726 | 103,507 | 117,999 | 253,232 | 0.591 |
| 2003 | 193,390 | 19-May | None |  | 193,390 | 33,024 | 160,366 | 136,850 | 330,240 | 0.514 |
| 2004 | 127,047 | 29-Apr | None |  | 127,047 | 20,359 | 106,688 | 76,968 | 204,015 | 0.477 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 84-04 | 127,090 |  |  |  |  |  | 130,495 | 25,838 | 104,658 | 98,329 |
| 95-04 | 133,871 |  |  |  |  |  | 134,385 | 30,105 | 104,279 | 114,810 |
| 2005 | 142,155 | 29-Apr | None |  | 142,155 | 22,102 | 120,053 | 46,618 | 188,773 | 0.364 |

${ }^{\text {a }}$ Expansion based on average FW CPUE for years (88-90\&95-96)
${ }^{\mathrm{b}}$ Expansion based on current year FW CPUE

Appendix D. 10. Sockeye salmon escapement estimates of Taku River and Port Snettisham sockeye stocks, 1979-2005.
Spawners equalls escapement to the weir minus fish collected for brood stock.

| Year | Little Trapper |  | Tatsamenie |  | Hackett Weir | Kuthai <br> L. Weir | Nahlin R. Weir | Crescent Lake |  | Speel Lake |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Escape. | Escape. | Spawn |  |  |  | Escape. | Spawn | Escape. | Spawn |
| 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 | 2,309 |  |  | 7,249 | 7,249 | 7,073 | 7,006 |
| 1986 | 13,820 | 13,820 | 11,446 | 11,446 | 1,004 |  |  | 3,414 | 3,414 | 5,857 | 5,457 |
| $1987{ }^{\text {b }}$ | 12,007 | 12,007 | 2,794 | 2,794 | 910 |  |  | 7,839 | 7,839 | 9,319 | 9,319 |
| $1988{ }^{\text {cd }}$ | 10,637 | 10,637 | 2,063 | 2,063 | 516 |  | 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 | i |
| $1998{ }^{\text {h }}$ | 8,717 | 8,717 | 5,997 | 4,735 |  | 1,934 | 345 |  |  | 13,358 | i |
| 1999 | 11,805 | 11,805 | 2,104 | 1,888 |  | 10,042 |  |  |  | 10,277 | ${ }^{1}$ |
| 2000 | 11,551 | 11,551 | 7,575 | 6,094 |  | 4,096 |  |  |  | 6,764 | i |
| 2001 | 16,860 | 16,860 | 22,575 | 21,094 |  | 1,663 | 935 |  |  | 8,060 | 1 |
| $2002{ }^{\text {j }}$ | 7,973 | 11,484 | 5,495 | 4,379 |  | 7,697 |  |  |  | 5,016 | 1 |
| 2003 | 31,227 | 31,227 | 4,515 | 2,965 |  | 7,769 |  |  |  | 7,014 | i |
| 2004 | 9,613 | 9,613 | 1,951 | 1,615 |  | 1,578 | 0 | na | na | 7,813 | 1 |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 83-04 | 12,716 | 12,569 | 6,974 | 6,091 | 1,185 | 4,713 | 1,433 | 8,008 | 7,788 | 9,150 | 9,252 |
| 95-04 | 12,068 | 12,419 | 7,696 | 6,338 |  | 4,808 | 1,564 |  |  | 9,951 | 16,435 |
| 2005 | 16,009 | 16,009 | 3,372 | 2,445 |  | 6,004 | 0 | na | na | 7,538 |  |

${ }^{\text {a }}$ Mark-recapture estimates for Crescent 91, 92 Speel 95
${ }^{\mathrm{b}}$ Weir count plus spawning ground survey. Trapper 83, 85, 87
${ }^{\text {c }}$ Weir counts are incomplete. Kuthai 92, Nahlin 88, 92
${ }^{\text {d }}$ 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.
${ }^{\mathrm{g}}$ 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.
${ }^{\mathrm{i}}$ Minimum estimates of run size
${ }^{\mathrm{j}}$ 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, 1989-2005.

| Year | Above Border M-R |  | Confidence Intervals |  | Canadian Catch ${ }^{\text {a }}$ | Spawning Escape. | U.S. Catch ${ }^{\text {b }}$ | Total Run |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run | Start |  |  |  |  |  |  |
|  | Estimate | Date | Lower | Upper |  |  |  |  |
| Large Fish Only |  |  |  |  |  |  |  |  |
| 1979 | 21,993 |  | 4,255 | 38,979 | 376 | 21,617 | 2,070 | 24,063 |
| 1980 | 39,781 |  | 7,723 | 70,755 | 542 | 39,239 | 3,208 | 42,989 |
| 1981 | 49,983 |  | 9,755 | 89,363 | 424 | 49,559 | 2,314 | 52,297 |
| 1982 | 24,190 |  | 4,694 | 43,003 | 342 | 23,848 | 2,194 | 26,384 |
| 1983 | 10,535 |  | 1,928 | 17,661 | 741 | 9,794 | 1,195 | 11,730 |
| 1984 | 21,480 |  | 4,090 | 37,466 | 702 | 20,778 | 1,609 | 23,088 |
| 1985 | 36,492 |  | 7,069 | 64,762 | 576 | 35,916 | 2,665 | 39,157 |
| 1986 | 38,693 |  | 7,501 | 68,720 | 582 | 38,111 | 1,604 | 40,298 |
| 1987 | 29,417 |  | 5,695 | 52,176 | 482 | 28,935 | 1,554 | 30,971 |
| 1988 | 45,479 |  | 8,764 | 80,284 | 955 | 44,524 | 1,005 | 46,484 |
| 1989 | 41,464 |  | 29,263 | 51,395 | 1,135 | 40,329 | 2,771 | 44,236 |
| 1990 | 53,561 |  | 33,863 | 70,421 | 1,419 | 52,142 | 3,045 | 56,606 |
| 1991 | 53,200 |  | 10,165 | 93,124 | 1,555 | 51,645 | 5,296 | 58,496 |
| 1992 | 57,525 |  | 110-01 | 100,778 | 1,636 | 55,889 | 4,203 | 61,728 |
| 1993 | 67,841 |  | 13,015 | 119,236 | 1,716 | 66,125 | 8,096 | 75,937 |
| 1994 | 50,555 |  | 9,520 | 87,216 | 2,187 | 48,368 | 4,639 | 55,193 |
| Averages |  |  |  |  |  |  |  |  |
| 79-04 | 45,272 |  |  |  | 1,583 | 43,689 | 3,195 | 48,466 |
| 95-04 | 53,488 |  |  |  | 2,579 | 50,909 | 3,559 | 57,047 |
| 2005 | 46,365 | 1-May | 37,691 | 55,442 | 7,559 | 38,806 | 22,036 | 68,401 |
| All Chinook Salmon |  |  |  |  |  |  |  |  |
| 1979 | 50,634 |  | 10,705 | 89,769 | 397 | 50,237 | 4,314 | 54,948 |
| 1980 | 56,285 |  | 18,615 | 92,735 | 610 | 55,675 | 3,899 | 60,184 |
| 1981 | 65,615 |  | 20,921 | 109,391 | 459 | 65,156 | 2,746 | 68,361 |
| 1982 | 30,133 |  | 9,154 | 50,404 | 354 | 29,779 | 3,187 | 33,320 |
| 1983 | 15,231 |  | 4,541 | 24,191 | 865 | 14,366 | 1,550 | 16,781 |
| 1984 | 31,414 |  | 10,309 | 50,889 | 815 | 30,599 | 2,033 | 33,447 |
| 1985 | 49,493 |  | 15,928 | 81,750 | 654 | 48,839 | 3,379 | 52,872 |
| 1986 | 46,806 |  | 13,900 | 78,388 | 662 | 46,144 | 2,029 | 48,835 |
| 1987 | 37,183 |  | 11,470 | 61,830 | 533 | 36,650 | 2,022 | 39,205 |
| 1988 | 63,243 |  | 19,507 | 104,699 | 1,140 | 62,103 | 1,256 | 64,499 |
| 1989 | 52,269 |  | 39,402 | 62,394 | 1,371 | 50,898 | 3,115 | 55,384 |
| 1990 | 60,972 |  | 40,772 | 77,704 | 1,734 | 59,238 | 3,645 | 64,617 |
| 1991 | 75,261 |  | 23,526 | 123,178 | 1,909 | 73,352 | 5,986 | 81,247 |
| 1992 | 76,585 |  | 23,419 | 125,725 | 2,013 | 74,572 | 4,503 | 81,088 |
| 1993 | 79,457 |  | 22,267 | 132,417 | 2,115 | 77,342 | 8,803 | 88,260 |
| 1994 | 56,372 |  | 14,238 | 93,068 | 2,719 | 53,653 | 5,019 | 61,391 |
| Averages |  |  |  |  |  |  |  |  |
| 79-04 | 57,401 |  |  |  | 1,936 | 55,465 | 3,743 | 61,144 |
| 94-04 | 64,548 |  |  |  | 3,199 | 61,349 | 3,982 | 68,530 |
| 2005 | 55,651 | 27-Apr | 43,794 | 61,942 | 8,380 | 47,271 | 22,036 | 77,687 |

${ }^{\text {a }}$ In years when sample size data is available (1999-present in the commercial and test fisheries, and 2003-2004 in the Aboriginal fishery) it was used to determine the number of large fish in the Canadian harvest. In years when sample data is not available, the average \% large in the commercial fishery from 1999-2004 (75\%) was applied to all 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, 1975-2005.

| Year | Kowatua | Tatsatua | Dudidontu | Tseta | Nakina | Nahlin | Index |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1975 |  |  | 15 |  | 1,800 | 274 | 2,089 |
| 1976 | 341 | 620 | 40 |  | 3,000 | 725 | 4,726 |
| 1977 | 580 | 573 | 18 |  | 3,850 | 650 | 5,671 |
| 1978 | 490 | 550 |  | 21 | 1,620 | 624 | 3,284 |
| 1979 | 430 | 750 | 9 |  | 2,110 | 857 | 4,156 |
| 1980 | 450 | 905 | 158 |  | 4,500 | 1,531 | 7,544 |
| 1981 | 560 | 839 | 74 | 258 | 5,110 | 2,945 | 9,528 |
| 1982 | 289 | 387 | 130 | 228 | 2,533 | 1,246 | 4,585 |
| 1983 | 171 | 236 | 117 | 179 | 968 | 391 | 1,883 |
| 1984 | 279 | 616 |  | 176 | 1,887 | 951 | 3,733 |
| 1985 | 699 | 848 | 475 | 303 | 2,647 | 2,236 | 6,905 |
| 1986 | 548 | 886 | 413 | 193 | 3,868 | 1,612 | 7,327 |
| 1987 | 570 | 678 | 287 | 180 | 2,906 | 1,122 | 5,563 |
| 1988 | 1,010 | 1,272 | 243 | 66 | 4,500 | 1,535 | 8,560 |
| 1989 | 601 | 1,228 | 204 | 494 | 5,141 | 1,812 | 8,986 |
| 1990 | 614 | 1,068 | 820 | 172 | 7,917 | 1,658 | 12,077 |
| 1991 | 570 | 1,164 | 804 | 224 | 5,610 | 1,781 | 9,929 |
| 1992 | 782 | 1,624 | 768 | 313 | 5,750 | 1,821 | 10,745 |
| 1993 | 1,584 | 1,491 | 1,020 | 491 | 6,490 | 2,128 | 12,713 |
| 1994 | 410 | 1,106 | 573 | 614 | 4,792 | 2,418 | 9,299 |
| 1995 | 550 | 678 | 731 | 786 | 3,943 | 2,069 | 7,971 |
| 1996 | 1,620 | 2,011 | 1,810 | 1,201 | 7,720 | 5,415 | 18,576 |
| 1997 | 1,360 | 1,148 | 943 | 648 | 6,095 | 3,655 | 13,201 |
| 1998 | 473 | 675 | 807 | 360 | 2,720 | 1,294 | 5,969 |
| 1999 | 561 | 431 | 527 | 221 | 1,900 | 532 | 3,951 |
| 2000 | 702 | 953 | 482 | 160 | 2,907 | 728 | 5,772 |
| 2001 | 1,050 | 1,024 | 479 | 202 | 1,552 | 935 | 5,040 |
| 2002 | 945 | 1,145 | 834 | 192 | 4,066 | 1,099 | 8,089 |
| 2003 | 850 | 1,000 | 644 | 436 | 2,126 | 861 | 5,481 |
| 2004 | 828 | 1,396 | 1,036 | 906 | 4,091 | 1,787 | 9,138 |
| Averages |  |  |  |  |  |  |  |
| $75-04$ | 687 | 941 | 516 | 361 | 3,804 | 1,556 | 7,866 |
| $95-04$ | 894 | 1,046 | 829 | 511 | 3,712 | 1,838 | 8,319 |
| 2005 | 833 | 1,146 | 318 | 215 | 1,213 | 471 | 3,981 |
|  |  |  |  |  |  |  |  |

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

Appendix D. 13. Taku River (above border) coho salmon run size, 1987-2005.

| Year | Above Border M-R |  | Expansion |  | Expand. <br> Estimate | Canada Catch | Escape. | U.S. Catch | Total Run | Total Exploit. Rate |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Run <br> Estimate | End <br> Date |  |  |  |  |  |  |  |  |
|  |  |  | Method | Factor |  |  |  |  |  |  |
| 1987 | 43,750 | 20-Sep | Test ${ }^{\text {a }}$ | 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 | Gill ${ }^{\text {b }}$ | 1.79 | 90,394 | 5,541 | 84,853 | 96,283 | 186,677 | 0.545 |
| 1993 | 62,076 | 11-Sep | Gill ${ }^{\text {b }}$ | 1.84 | 114,091 | 4,634 | 109,457 | 97,758 | 211,849 | 0.483 |
| 1994 | 98,643 | 24-Sep | Gill ${ }^{\text {b }}$ | 1.13 | 111,036 | 14,693 | 96,343 | 228,607 | 339,643 | 0.716 |
| 1995 | 61,738 | 30-Sep | Gill ${ }^{\text {b }}$ | 1.12 | 69,448 | 13,738 | 55,710 | 111,571 | 181,019 | 0.692 |
| 1996 | 44,172 | 28-Sep | Gill ${ }^{\text {b }}$ | 1.12 | 49,687 | 5,052 | 44,635 | 44,529 | 94,216 | 0.526 |
| 1997 | 35,035 | 27-Sep | Gill ${ }^{\text {b }}$ | 1.00 | 35,035 | 2,690 | 32,345 | 15,825 | 50,860 | 0.364 |
| 1998 | 49,290 | 26-Sep | Gill ${ }^{\text {b }}$ | 1.35 | 66,472 | 5,090 | 61,382 | 53,368 | 119,840 | 0.488 |
| 1999 | 59,052 | 3-Oct | Troll ${ }^{\text {c }}$ | 1.12 | 66,343 | 5,575 | 60,768 | 50,789 | 117,132 | 0.481 |
| 2000 | 70,147 | 2-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 70,147 | 5,447 | 64,700 | 35,390 | 105,537 | 0.387 |
| 2001 | 107,493 | 5-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 107,493 | 3,099 | 104,394 | 53,390 | 160,883 | 0.351 |
| 2002 | 223,162 | 7-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 223,162 | 3,802 | 219,360 | 80,114 | 303,276 | 0.277 |
| 2003 | 171,562 | 8-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 171,562 | 3,643 | 167,919 | 78,334 | 249,896 | 0.328 |
| 2004 | 142,970 | 8-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 143,970 | 9,432 | 134,538 | 112,807 | 256,777 | 0.476 |
| Averages |  |  |  |  |  |  |  |  |  |  |
| 87-04 | 85,132 | 9/27 |  | 1.16 | 94,086 | 5,875 | 88,211 | 81,443 | 182,893 |  |
| 95-04 | 96,462 | 10/2 |  | 1.07 | 100,332 | 5,757 | 94,575 | 63,612 | 163,944 | 0.437 |
| 2005 | 99,811 | 8-Oct | Troll ${ }^{\text {c }}$ | 1.00 | 99,811 | 8,259 | 91,552 | 59,257 | 159,068 | 0.424 |

${ }^{\text {a }}$ Expansion based on test fish CPUE
${ }^{\mathrm{b}}$ Expansion based on District 111 gillnet CPUE
${ }^{\text {c }}$ Expansion based on Troll CPUE

Appendix D. 14. Escapement counts of Taku River coho salmon, 1984-2000.
Counts are for age-. 1 fish and do not include jacks. Because of variability between methods, visibility, observers, and timing, these counts are not an index of run strength.

| Year | Yehring Creek |  | Sock. Creek Aerial | Johnson Creek Ar/Foot | Fish Creek Aerial | Flannigan Slough Aerial | Tats. River Weir | Hacket River Weir | Dudidontu <br> River <br> Aerial | Upper Nahlin |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weir | Aerial |  |  |  |  |  |  |  | Aerial | Weir |
| 1984 |  | 2,900 | 275 | 235 | 700 | 1,480 |  |  |  |  |  |
| 1985 |  | 560 | 740 | 150 | 1,000 | 2,320 | $201{ }^{\text {b }}$ | 1,031 |  |  |  |
| 1986 | $2116{ }^{\text {a }}$ | 1,200 | $174{ }^{\text {c }}$ | 70 | $53{ }^{\text {c }}$ | $1095{ }^{\text {c }}$ | $344{ }^{\text {b }}$ | 2,723 | 108 | 318 |  |
| 1987 | $1627{ }^{\text {a }}$ | $565{ }^{\text {c }}$ | $980{ }^{\text {c }}$ | 150 | 250 | $2100{ }^{\text {c }}$ | $173{ }^{\text {b }}$ | 1,715 | 276 | 165 |  |
| 1988 | 1,423 | 658 c | $585{ }^{\text {c }}$ | 500 | $1215{ }^{\text {c }}$ | $1308{ }^{\text {c }}$ | $663{ }^{\text {a }}$ | 1,260 | 367 | 694 | 1,322 |
| 1989 | $1570{ }^{\text {d }}$ | 600 | 400 | 400 | 235 | 1,670 | $712^{\text {a }}$ |  | 115 | 322 |  |
| 1990 | $2522{ }^{\text {d }}$ | 220 | $193{ }^{\text {c }}$ |  | $425{ }^{\text {c }}$ | $414{ }^{\text {c }}$ | $669{ }^{\text {a }}$ |  | 25 | 256 |  |
| 1991 |  | $475{ }^{\text {c }}$ | $399{ }^{\text {c }}$ | 120 | $1378{ }^{\text {c }}$ | $1348{ }^{\text {c }}$ | 1,101 |  | 458 | $176{ }^{\text {e }}$ |  |
| 1992 |  | $1267{ }^{\text {cf }}$ | $594{ }^{\text {f }}$ | 654 | 478 | 1,288 | 730 |  |  |  | $970{ }^{\text {ab }}$ |
| 1993 |  | 250 | 130 | 90 | 380 | 70 | $88{ }^{\text {b }}$ |  |  |  | $326{ }^{\text {g }}$ |
| 1994 |  | 500 | 60 | 450 | 200 | 50 | 168 |  |  |  | $2112{ }^{\text {g }}$ |
| 1995 |  | 70 | 230 | 170 | 132 | 421 | $62{ }^{\text {b }}$ |  |  |  |  |
| 1996 |  | 35 | 28 | 50 | 250 | 278 | $21^{\text {b }}$ |  |  |  |  |
| 1997 |  | 500 | 10 | 550 | 600 |  |  |  |  |  |  |
| 1998 |  | 280 |  | 300 | 450 |  |  |  |  |  |  |
| 1999 |  | 1,050 |  |  | 400 |  |  |  |  |  |  |
| 2000 |  | 450 |  | 500 | 1,800 |  |  |  |  |  |  |
| Averages |  |  |  |  |  |  |  |  |  |  |  |
| 84-00 | 1,423 | 663 | 234 | 293 | 529 | 947 | 666 | 1,682 | 225 | 351 | 1,322 |
| 95-00 |  | 398 | 89 | 314 | 605 | 350 |  |  |  |  |  |

[^13]Appendix D. 15. Canyon Island fish wheel salmon counts and periods of operation on the Taku River, 1983-2005.

| Year | Period of Operation | Catch |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | even year | odd year | Steelhead |
| 1984 | 6/15-9/18 | 138 | 2,334 | 889 | 20,751 | 316 | 20,751 |  |  |
| 1985 | 6/16-9/21 | 184 | 3,601 | 1,207 | 27,670 | 1,376 |  | 27,670 |  |
| 1986 | 6/14-8/25 | 571 | 5,808 | 758 | 7,256 | 80 | 7,256 |  |  |
| 1987 | 6/15-9/20 | 285 | 4,307 | 2,240 | 42,786 | 1,533 |  | 42,786 | 34 |
| 1988 | 5/11-9/19 | 1,436 | 3,292 | 2,168 | 3,982 | 1,089 | 3,982 |  | 34 |
| 1989 | 5/05-10/01 | 1,811 | 5,650 | 2,243 | 31,189 | 645 |  | 31,189 | 38 |
| 1990 | 5/03-9/23 | 1,972 | 6,091 | 1,860 | 13,358 | 748 | 13,358 |  | 43 |
| 1991 | 6/08-10/15 | 680 | 5,102 | 4,922 | 23,553 | 1,063 |  | 23,553 | 138 |
| 1992 | 6/20-9/24 | 212 | 6,279 | 2,103 | 9,252 | 189 | 9,252 |  | 22 |
| 1993 | 6/12-9/29 | 562 | 8,975 | 2,552 | 1,625 | 345 |  | 1,625 | 16 |
| 1994 | 6/10-9/21 | 906 | 6,485 | 4,792 | 27,100 | 367 | 27,100 |  | 107 |
| 1995 | 5/4-9/27 | 1,535 | 6,228 | 2,535 | 1,712 | 218 |  | 1,712 | 61 |
| 1996 | 5/3-9/20 | 1,904 | 5,919 | 1,895 | 21,583 | 388 | 21,583 |  | 68 |
| 1997 | 5/3-10/1 | 1,321 | 5,708 | 1,665 | 4,962 | 485 |  | 4,962 | 103 |
| 1998 | 5/2-9/15 | 894 | 4,230 | 1,777 | 23,347 | 179 | 23,347 |  | 119 |
| 1999 | 5/3-10/3 ${ }^{\text {b }}$ | 440 | 4,636 | 1,848 | 23,503 | 164 |  | 23,503 | 119 |
| 2000 | 4/23-10/3 ${ }^{\text {c }}$ | 1,211 | 5,865 | 1,877 | 6,529 | 423 | 6,529 |  | 160 |
| 2001 | 4/23-10/5 ${ }^{\text {d }}$ | 1,262 | 6,201 | 2,380 | 9,134 | 250 |  | 9,134 | 125 |
| 2002 | 4/24-10/7 ${ }^{\text {e }}$ | 1,578 | 5,812 | 3,766 | 5,672 | 205 | 5,672 |  | 87 |
| 2003 | 4/20-10/08 ${ }^{\text {f }}$ | 1,351 | 5,970 | 3,002 | 15,492 | 268 |  | 15,492 | 93 |
| 2004 | 4/30-10/06 | 2,234 | 6,255 | 3,163 | 8,464 | 414 | 8,464 |  | 63 |
| Averages |  |  |  |  |  |  |  |  |  |
| 84-04 |  | 1,071 | 5,464 | 2,364 | 15,663 | 512 | 13,390 | 18,163 | 79 |
| 94-04 |  | 1,373 | 5,682 | 2,391 | 12,040 | 299 | 13,119 | 10,961 | 100 |
| 2005 | 4/25-10/05 | 517 | 3,953 | 1,476 | 15,839 | 258 |  | 15,839 | 79 |

${ }^{\text {a }}$ gillnetting was used to supplement catches from September 16-23
${ }^{\text {b }}$ gillnetting was used to supplement catches from April 24 - June 23 and September 3 - October 3.
${ }^{\text {c }}$ gillnetting was used to supplement catches from May 8 - June 2 and September 9 - October 3.
${ }^{\text {d }}$ gillnetting was used to supplement catches from April 28 - June 17 and September 8 - October 5.
${ }^{e}$ gillnetting was used to supplement catches from April 24 - June 8 and September 11 - October 7.
${ }^{\mathrm{f}}$ gillnetting was used to supplement catches from April 20-June 12 and September 09-October 8.

Appendix E. 1. Weekly salmon catch and effort in the lower Alsek River fisheries, 2005.

| Week | Start Date | Catch |  |  |  |  |  | Effort |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  | Sockeye | Coho | Pink | Chum | Boats | Days <br> Open | Boat <br> Days |
|  |  | Large | Jack |  |  |  |  |  |  |  |
| Test Fishery |  |  |  |  |  |  |  |  |  |  |
| 22 | 22-May | 39 | 0 | 8 | 0 | 0 | 0 | 1 | 1.00 | 1.0 |
| 23 | 29-May | 180 | 0 | 34 | 0 | 0 | 0 | 1 | 6.67 | 6.7 |
| 24 | 5-Jun | 125 | 0 | 48 | 0 | 0 | 0 | 1 | 4.67 | 4.7 |
| 25 | 12-Jun | 53 | 0 | 57 | 0 | 0 | 0 | 1 | 3.67 | 3.7 |
| 26 | 19-Jun | 24 | 0 | 59 | 0 | 0 | 0 | 1 | 4.67 | 4.7 |
| 27 | 26-Jun | 2 | 0 | 16 | 0 | 0 | 0 | 1 | 4.67 | 4.7 |
| Total |  | 423 | 0 | 222 | 0 | 0 | 0 |  |  |  |
| Commercial Fishery ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
| 24 | 5-Jun | 156 | 27 | 451 | 0 | 0 | 0 | 13 | 1.0 | 13.0 |
| 25 | 12-Jun | 63 | 18 | 1,661 | 0 | 0 | 0 | 15 | 2.0 | 30.0 |
| 26 | 19-Jun | 9 | 1 | 648 | 0 | 0 | 0 | 14 | 1.0 | 14.0 |
| 27 | 26-Jun | 8 | 1 | 1,023 | 0 | 0 | 0 | 12 | 1.0 | 12.0 |
| 28 | 3-Jul | 1 | 0 | 737 | 0 | 0 | 0 | 11 | 1.0 | 11.0 |
| 29 | 10-Jul | 1 | 0 | 1,872 | 0 | 0 | 0 | 10 | 2.0 | 20.0 |
| 30 | 17-Jul | 0 | 0 | 515 | 0 | 0 | 0 | 8 | 1.0 | 8.0 |
| 31 | 24-Jul | 0 | 0 | 400 | 0 | 0 | 0 | 6 | 2.0 | 12.0 |
| 32-42 | 31-Jul | 1 | 0 | 265 | 1,196 | 0 | 0 | 12 | 30.0 | 51.0 |
| Total |  | 239 | 47 | 7,572 | 1,196 | 0 | 0 |  | 41.0 | 171 |

Appendix E. 2. Weekly salmon catch and effort in the Canadian Aboriginal and sport fisheries in the Alsek River, 2005.

| Total catches do not include released fish. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| Week | Date | $\mathrm{AFF}^{\text {a }}$ | Sport ${ }^{\text {b }}$ | Total | $\mathrm{AFF}^{\text {a }}$ | Sport ${ }^{\text {b }}$ | Total | $\mathrm{AFF}^{\text {a }}$ | Sport ${ }^{\text {b }}$ | Total |
| 24 | 5-Jun |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 25 | 12-Jun |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 26 | 19-Jun |  | 1 | 1 |  | 1 | 1 |  | 0 | 0 |
| 27 | 26-Jun |  | 4 | 4 |  | 0 | 0 |  | 0 | 0 |
| 28 | 3-Jul |  | 9 | 9 |  | 0 | 0 |  | 0 | 0 |
| 29 | 10-Jul | No | 22 | 22 | No | 0 | 0 | No | 0 | 0 |
| 30 | 17-Jul | Weekly | 14 | 14 | Weekly | 1 | 1 | Weekly | 0 | 0 |
| 31 | 24-Jul | Data | 5 | 5 | Data | 0 | 0 | Data | 0 | 0 |
| 32 | 31-Jul |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 33 | 7-Aug |  | 1 | 1 |  | 0 | 0 |  | 0 | 0 |
| 34 | 14-Aug |  | 0 | 0 |  | 4 | 4 |  | 0 | 0 |
| 35 | 21-Aug |  | 0 | 0 |  | 1 | 1 |  | 0 | 0 |
| 36 | 28-Aug |  | 0 | 0 |  | 4 | 4 |  | 0 | 0 |
| 37 | 4-Sep |  | 0 | 0 |  | 2 | 2 |  | 0 | 0 |
| 38 | 11-Sep |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 39 | 18-Sep |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 40 | 25-Sep |  | 0 | 0 |  | 0 | 0 |  | 2 | 2 |
| 41 | 2-Oct |  | 0 | 0 |  | 0 | 0 |  | 19 | 19 |
| 42 | 9-Oct |  | 0 | 0 |  | 0 | 0 |  | 27 | 27 |
| 43 | 16-Oct |  | 0 | 0 |  | 0 | 0 |  | 3 | 3 |
| 44 | 23-Oct |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 45 | 30-Oct |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| 46 | 6-Nov |  | 0 | 0 |  | 0 | 0 |  | 0 | 0 |
| Total |  | 58 | 56 | 114 | 581 | 13 | 594 | 20 | 51 | 71 |
| Village Creek food fish Data Not Available |  |  |  |  |  |  |  |  |  |  |
| Harves | kshu Riv | weir |  | 14 |  |  | 112 |  |  | 20 |
| Food fi | e Kluksh | Neir |  | 22 |  |  | 94 |  |  | 0 |

${ }^{\text {a }}$ Aboriginal catches are an estimate using run timing.
${ }^{\mathrm{b}}$ Includes estimates of sport catch retained in Takhanne and Blanchard rivers; estimates based on salmon catch card information.

Appendix E. 3. Daily counts of salmon passing through Klukshu River weir, 2005.

| Date | Chinook ${ }^{\text {a }}$ |  |  | 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 | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 15-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 16-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 17-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 18-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 19-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 20-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 21-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 22-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 23-Jun | 0 | 0 | 0.000 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 24-Jun | 3 | 3 | 0.003 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 25-Jun | 3 | 6 | 0.006 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 26-Jun | 2 | 8 | 0.007 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 27-Jun | 4 | 12 | 0.011 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 28-Jun | 1 | 13 | 0.012 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 29-Jun | 0 | 13 | 0.012 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 30-Jun | 2 | 15 | 0.014 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 1-Jul | 5 | 20 | 0.019 | 0 | 0 | 0.000 | 0 | 0 | 0.000 |
| 2-Jul | 3 | 23 | 0.021 | 1 | 1 | 0.000 | 0 | 0 | 0.000 |
| 3-Jul | 2 | 25 | 0.023 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 4-Jul | 2 | 27 | 0.025 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 5-Jul | 2 | 29 | 0.027 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 6-Jul | 7 | 36 | 0.034 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 7-Jul | 31 | 67 | 0.063 | 0 | 1 | 0.000 | 0 | 0 | 0.000 |
| 8-Jul | 139 | 206 | 0.193 | 7 | 8 | 0.002 | 0 | 0 | 0.000 |
| 9-Jul | 26 | 232 | 0.217 | 1 | 9 | 0.003 | 0 | 0 | 0.000 |
| 10-Jul | 11 | 243 | 0.227 | 0 | 9 | 0.003 | 0 | 0 | 0.000 |
| 11-Jul | 23 | 266 | 0.249 | 0 | 9 | 0.003 | 0 | 0 | 0.000 |
| 12-Jul | 16 | 282 | 0.264 | 0 | 9 | 0.003 | 0 | 0 | 0.000 |
| 13-Jul | 20 | 302 | 0.282 | 2 | 11 | 0.003 | 0 | 0 | 0.000 |
| 14-Jul | 46 | 348 | 0.325 | 2 | 13 | 0.004 | 0 | 0 | 0.000 |
| 15-Jul | 24 | 372 | 0.348 | 0 | 13 | 0.004 | 0 | 0 | 0.000 |
| 16-Jul | 34 | 406 | 0.379 | 0 | 13 | 0.004 | 0 | 0 | 0.000 |
| 17-Jul | 85 | 491 | 0.459 | 2 | 15 | 0.004 | 0 | 0 | 0.000 |
| 18-Jul | 27 | 518 | 0.484 | 1 | 16 | 0.005 | 0 | 0 | 0.000 |
| 19-Jul | 65 | 583 | 0.545 | 13 | 29 | 0.009 | 0 | 0 | 0.000 |
| 20-Jul | 122 | 705 | 0.659 | 11 | 40 | 0.012 | 0 | 0 | 0.000 |
| 21-Jul | 48 | 753 | 0.704 | 5 | 45 | 0.013 | 0 | 0 | 0.000 |
| 22-Jul | 46 | 799 | 0.747 | 9 | 54 | 0.016 | 0 | 0 | 0.000 |
| 23-Jul | 36 | 835 | 0.780 | 23 | 77 | 0.023 | 0 | 0 | 0.000 |
| 24-Jul | 31 | 866 | 0.809 | 4 | 81 | 0.024 | 0 | 0 | 0.000 |
| 25-Jul | 11 | 877 | 0.820 | 0 | 81 | 0.024 | 0 | 0 | 0.000 |
| 26-Jul | 9 | 886 | 0.828 | 15 | 96 | 0.028 | 0 | 0 | 0.000 |
| 27-Jul | 19 | 905 | 0.846 | 8 | 104 | 0.031 | 0 | 0 | 0.000 |
| 28-Jul | 24 | 929 | 0.868 | 71 | 175 | 0.052 | 0 | 0 | 0.000 |
| 29-Jul | 9 | 938 | 0.877 | 7 | 182 | 0.054 | 0 | 0 | 0.000 |
| 30-Jul | 17 | 955 | 0.893 | 8 | 190 | 0.056 | 0 | 0 | 0.000 |
| 31-Jul | 1 | 956 | 0.893 | 7 | 197 | 0.058 | 0 | 0 | 0.000 |
| 1-Aug | 11 | 967 | 0.904 | 4 | 201 | 0.060 | 0 | 0 | 0.000 |
| 2-Aug | 13 | 980 | 0.916 | 2 | 203 | 0.060 | 0 | 0 | 0.000 |
| 3-Aug | 10 | 990 | 0.925 | 5 | 208 | 0.062 | 0 | 0 | 0.000 |
| 4-Aug | 30 | 1,020 | 0.953 | 7 | 215 | 0.064 | 0 | 0 | 0.000 |
| 5-Aug | 1 | 1,021 | 0.954 | 14 | 229 | 0.068 | 0 | 0 | 0.000 |
| 6-Aug | 7 | 1,028 | 0.961 | 19 | 248 | 0.074 | 0 | 0 | 0.000 |
| 7-Aug | 3 | 1,031 | 0.964 | 10 | 258 | 0.076 | 0 | 0 | 0.000 |
| 8-Aug | 5 | 1,036 | 0.968 | 81 | 339 | 0.101 | 0 | 0 | 0.000 |
| 9-Aug | 7 | 1,043 | 0.975 | 31 | 370 | 0.110 | 0 | 0 | 0.000 |


| 10-Aug | 3 | 1,046 | 0.978 | 44 | 414 | 0.123 | 0 | 0 | 0.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-Aug | 2 | 1,048 | 0.979 | 35 | 449 | 0.133 | 0 | 0 | 0.000 |
| 12-Aug | 8 | 1,056 | 0.987 | 76 | 525 | 0.156 | 0 | 0 | 0.000 |
| 13-Aug | 5 | 1,061 | 0.992 | 282 | 807 | 0.239 | 0 | 0 | 0.000 |
| 14-Aug | 3 | 1,064 | 0.994 | 145 | 952 | 0.282 | 0 | 0 | 0.000 |
| 15-Aug | 0 | 1,064 | 0.994 | 42 | 994 | 0.295 | 0 | 0 | 0.000 |
| 16-Aug | 1 | 1,065 | 0.995 | 217 | 1,211 | 0.359 | 0 | 0 | 0.000 |
| 17-Aug | 0 | 1,065 | 0.995 | 57 | 1,268 | 0.376 | 0 | 0 | 0.000 |
| 18-Aug | 1 | 1,066 | 0.996 | 20 | 1,288 | 0.382 | 0 | 0 | 0.000 |
| 19-Aug | 0 | 1,066 | 0.996 | 4 | 1,292 | 0.383 | 0 | 0 | 0.000 |
| 20-Aug | 0 | 1,066 | 0.996 | 1 | 1,293 | 0.383 | 0 | 0 | 0.000 |
| 21-Aug | 0 | 1,066 | 0.996 | 7 | 1,300 | 0.385 | 0 | 0 | 0.000 |
| 22-Aug | 0 | 1,066 | 0.996 | 13 | 1,313 | 0.389 | 0 | 0 | 0.000 |
| 23-Aug | 1 | 1,067 | 0.997 | 6 | 1,319 | 0.391 | 0 | 0 | 0.000 |
| 24-Aug | 2 | 1,069 | 0.999 | 87 | 1,406 | 0.417 | 0 | 0 | 0.000 |
| 25-Aug | 0 | 1,069 | 0.999 | 6 | 1,412 | 0.419 | 0 | 0 | 0.000 |
| 26-Aug | 0 | 1,069 | 0.999 | 7 | 1,419 | 0.421 | 0 | 0 | 0.000 |
| 27-Aug | 0 | 1,069 | 0.999 | 4 | 1,423 | 0.422 | 0 | 0 | 0.000 |
| 28-Aug | 0 | 1,069 | 0.999 | 3 | 1,426 | 0.423 | 0 | 0 | 0.000 |
| 29-Aug | 0 | 1,069 | 0.999 | 2 | 1,428 | 0.423 | 0 | 0 | 0.000 |
| 30-Aug | 0 | 1,069 | 0.999 | 0 | 1,428 | 0.423 | 0 | 0 | 0.000 |
| 31-Aug | 0 | 1,069 | 0.999 | 4 | 1,432 | 0.425 | 0 | 0 | 0.000 |
| 1-Sep | 1 | 1,070 | 1.000 | 2 | 1,434 | 0.425 | 0 | 0 | 0.000 |
| 2-Sep | 0 | 1,070 | 1.000 | 2 | 1,436 | 0.426 | 0 | 0 | 0.000 |
| 3-Sep | 0 | 1,070 | 1.000 | 1 | 1,437 | 0.426 | 0 | 0 | 0.000 |
| 4-Sep | 0 | 1,070 | 1.000 | 4 | 1,441 | 0.427 | 0 | 0 | 0.000 |
| 5-Sep | 0 | 1,070 | 1.000 | 0 | 1,441 | 0.427 | 0 | 0 | 0.000 |
| 6-Sep | 0 | 1,070 | 1.000 | 21 | 1,462 | 0.433 | 0 | 0 | 0.000 |
| 7-Sep | 0 | 1,070 | 1.000 | 22 | 1,484 | 0.440 | 0 | 0 | 0.000 |
| 8-Sep | 0 | 1,070 | 1.000 | 330 | 1,814 | 0.538 | 0 | 0 | 0.000 |
| 9-Sep | 0 | 1,070 | 1.000 | 11 | 1,825 | 0.541 | 0 | 0 | 0.000 |
| 10-Sep | 0 | 1,070 | 1.000 | 211 | 2,036 | 0.604 | 0 | 0 | 0.000 |
| 11-Sep | 0 | 1,070 | 1.000 | 35 | 2,071 | 0.614 | 0 | 0 | 0.000 |
| 12-Sep | 0 | 1,070 | 1.000 | 16 | 2,087 | 0.619 | 0 | 0 | 0.000 |
| 13-Sep | 0 | 1,070 | 1.000 | 10 | 2,097 | 0.622 | 0 | 0 | 0.000 |
| 14-Sep | 0 | 1,070 | 1.000 | 2 | 2,099 | 0.622 | 0 | 0 | 0.000 |
| 15-Sep | 0 | 1,070 | 1.000 | 2 | 2,101 | 0.623 | 0 | 0 | 0.000 |
| 16-Sep | 0 | 1,070 | 1.000 | 0 | 2,101 | 0.623 | 0 | 0 | 0.000 |
| 17-Sep | 0 | 1,070 | 1.000 | 0 | 2,101 | 0.623 | 0 | 0 | 0.000 |
| 18-Sep | 0 | 1,070 | 1.000 | 27 | 2,128 | 0.631 | 0 | 0 | 0.000 |
| 19-Sep | 0 | 1,070 | 1.000 | 14 | 2,142 | 0.635 | 0 | 0 | 0.000 |
| 20-Sep | 0 | 1,070 | 1.000 | 8 | 2,150 | 0.637 | 0 | 0 | 0.000 |
| 21-Sep | 0 | 1,070 | 1.000 | 18 | 2,168 | 0.643 | 0 | 0 | 0.000 |
| 22-Sep | 0 | 1,070 | 1.000 | 0 | 2,168 | 0.643 | 0 | 0 | 0.000 |
| 23-Sep | 0 | 1,070 | 1.000 | 34 | 2,202 | 0.653 | 0 | 0 | 0.000 |
| 24-Sep | 0 | 1,070 | 1.000 | 46 | 2,248 | 0.666 | 0 | 0 | 0.000 |
| 25-Sep | 0 | 1,070 | 1.000 | 34 | 2,282 | 0.677 | 1 | 1 | 0.001 |
| 26-Sep | 0 | 1,070 | 1.000 | 42 | 2,324 | 0.689 | 2 | 3 | 0.004 |
| 27-Sep | 0 | 1,070 | 1.000 | 4 | 2,328 | 0.690 | 0 | 3 | 0.004 |
| 28-Sep | 0 | 1,070 | 1.000 | 16 | 2,344 | 0.695 | 0 | 3 | 0.004 |
| 29-Sep | 0 | 1,070 | 1.000 | 44 | 2,388 | 0.708 | 3 | 6 | 0.009 |
| 30-Sep | 0 | 1,070 | 1.000 | 80 | 2,468 | 0.732 | 7 | 13 | 0.019 |
| 1-Oct | 0 | 1,070 | 1.000 | 23 | 2,491 | 0.739 | 10 | 23 | 0.034 |
| 2-Oct | 0 | 1,070 | 1.000 | 25 | 2,516 | 0.746 | 4 | 27 | 0.040 |
| 3-Oct | 0 | 1,070 | 1.000 | 137 | 2,653 | 0.787 | 12 | 39 | 0.057 |
| 4-Oct | 0 | 1,070 | 1.000 | 195 | 2,848 | 0.844 | 30 | 69 | 0.101 |
| 5-Oct | 0 | 1,070 | 1.000 | 49 | 2,897 | 0.859 | 47 | 116 | 0.170 |
| 6-Oct | 0 | 1,070 | 1.000 | 139 | 3,036 | 0.900 | 92 | 208 | 0.305 |
| 7-Oct | 0 | 1,070 | 1.000 | 84 | 3,120 | 0.925 | 35 | 243 | 0.356 |
| 8-Oct | 0 | 1,070 | 1.000 | 30 | 3,150 | 0.934 | 41 | 284 | 0.416 |
| $9-\mathrm{Oct}$ | 0 | 1,070 | 1.000 | 25 | 3,175 | 0.941 | 56 | 340 | 0.498 |
| 10-Oct | 0 | 1,070 | 1.000 | 40 | 3,215 | 0.953 | 35 | 375 | 0.549 |
| 11-Oct | 0 | 1,070 | 1.000 | 23 | 3,238 | 0.960 | 82 | 457 | 0.669 |
| 12-Oct | 0 | 1,070 | 1.000 | 15 | 3,253 | 0.964 | 44 | 501 | 0.734 |
| 13-Oct | 0 | 1,070 | 1.000 | 30 | 3,283 | 0.973 | 33 | 534 | 0.782 |
| 14-Oct | 0 | 1,070 | 1.000 | 20 | 3,303 | 0.979 | 54 | 588 | 0.861 |
| 15-Oct | 0 | 1,070 | 1.000 | 16 | 3,319 | 0.984 | 19 | 607 | 0.889 |
| 16-Oct | 0 | 1,070 | 1.000 | 12 | 3,331 | 0.988 | 24 | 631 | 0.924 |
| 17-Oct | 0 | 1,070 | 1.000 | 8 | 3,339 | 0.990 | 18 | 649 | 0.950 |
| 18-Oct | 0 | 1,070 | 1.000 | 15 | 3,354 | 0.994 | 19 | 668 | 0.978 |


| 19-Oct | 0 | 1,070 | 1.000 | 19 | 3,373 | 1.000 | 15 | 683 | 1.000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Count |  | 1,070 |  |  | 3,373 |  |  | 683 |  |
| Catch at weir |  | 14 |  |  | 112 |  |  | 20 |  |
| Catch above weir |  | 22 |  |  | 94 |  |  | 0 |  |
| Total Escapement |  | 1,034 |  |  | 3,167 |  |  | 663 |  |

Appendix E. 4. Salmon catch and effort in the U.S. Commercial fishery in the Alsek River, 1960-2005.

| Year | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Boat <br> Days | $\begin{aligned} & \text { Days } \\ & \text { Open } \end{aligned}$ |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1960 ( ${ }^{\text {c }}$ |  |  |  |  |  |  |  |
| 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 |
| Averages |  |  |  |  |  |  |  |
| 60-04 | 778 | 21,117 | 6,058 | 40 | 332 | 580 | 52.3 |
| 95-04 | 655 | 19,878 | 6,177 | 3 | 95 | 395 | 55 |
| 2005 | 239 | 7,572 | 1,196 | 0 | 0 | 171 | 41.0 |

Appendix E. 5. Salmon catch in the U.S. subsistence and personal use fisheries in the Alsek River, 19762005.

| 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 ( ${ }^{\text {c }}$ |  |  |  |
| 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 | 38 | 122 | 0 |
| Averages |  |  |  |
| 76-04 | 42 | 117 | 31 |
| 95-04 | 47 | 157 | 31 |
| 2005 | 31 | 63 | 62 |

Appendix E. 6. Salmon catches in the Canadian Aboriginal and sport fisheries in the Alsek River, 1976 to 2005.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | AFF | Sport | Total | AFF | Sport | Total | AFF | Sport | Total |
| 1976 | 150 | 200 | 350 | 4,000 | 600 | 4,600 | 0 | 100 | 100 |
| 1977 | 350 | 300 | 650 | 10,000 | 500 | 10,500 | 0 | 200 | 200 |
| 1978 | 350 | 300 | 650 | 8,000 | 500 | 8,500 | 0 | 200 | 200 |
| 1979 | 1,300 | 650 | 1,950 | 7,000 | 750 | 7,750 | 0 | 100 | 100 |
| 1980 | 150 | 200 | 350 | 800 | 600 | 1,400 | 0 | 200 | 200 |
| 1981 | 150 | 315 | 465 | 2,000 | 808 | 2,808 | 0 | 109 | 109 |
| 1982 | 400 | 224 | 624 | 5,000 | 755 | 5,755 | 0 | 109 | 109 |
| 1983 | 300 | 312 | 612 | 2,550 | 732 | 3,282 | 0 | 16 | 16 |
| 1984 | 100 | 475 | 575 | 2,600 | 289 | 2,889 | 0 | 20 | 20 |
| 1985 | 175 | 250 | 425 | 1,361 | 100 | 1,461 | 50 | 100 | 150 |
| 1986 | 102 | 165 | 267 | 1,914 | 307 | 2,221 | 0 | 9 | 9 |
| 1987 | 125 | 367 | 492 | 1,158 | 383 | 1,541 | 0 | 49 | 49 |
| 1988 | 43 | 249 | 292 | 1,604 | 322 | 1,926 | 0 | 192 | 192 |
| 1989 | 234 | 272 | 506 | 1,851 | 319 | 2,170 | 0 | 227 | 227 |
| 1990 | 202 | 555 | 757 | 2,314 | 392 | 2,706 | 0 | 75 | 75 |
| 1991 | 509 | 388 | 897 | 2,111 | 303 | 2,414 | 0 | 227 | 227 |
| 1992 | 148 | 103 | 251 | 2,592 | 582 | 3,174 | 0 | 213 | 213 |
| 1993 | 152 | 171 | 323 | 2,361 | 329 | 2,690 | 0 | 37 | 37 |
| 1994 | 289 | 197 | 486 | 1,745 | 261 | 2,006 | 8 | 69 | 77 |
| 1995 | 580 | 1,044 | 1,624 | 1,745 | 682 | 2,427 | 83 | 527 | 610 |
| 1996 | 448 | 650 | 1,098 | 1,204 | 157 | 1,361 | 56 | 9 | 65 |
| 1997 | 232 | 298 | 530 | 484 | 36 | 520 | 5 | 0 | 5 |
| 1998 | 171 | 175 | 346 | 567 | 18 | 585 | 72 | 40 | 112 |
| 1999 | 238 | 174 | 412 | 554 | 0 | 554 | 0 | 28 | 28 |
| 2000 | 65 | 77 | 142 | 745 | 0 | 745 | 51 | 1 | 52 |
| 2001 | 120 | 157 | 277 | 1,173 | 4 | 1,177 | 5 | 94 | 99 |
| 2002 | 120 | 197 | 317 | 2,194 | 61 | 2,255 | 6 | 283 | 289 |
| 2003 | 90 | 138 | 228 | 2,734 | 61 | 2,795 | 0 | 192 | 192 |
| 2004 | 139 | 46 | 185 | 1,875 | 247 | 2,122 | 0 | 127 | 127 |
| Averages |  |  |  |  |  |  |  |  |  |
| 76-04 | 256 | 298 | 555 | 2,560 | 348 | 2,908 | 12 | 122 | 134 |
| 95-04 | 220 | 296 | 516 | 1,328 | 127 | 1,454 | 28 | 130 | 158 |
| 2005 | 58 | 56 | 114 | 581 | 13 | 594 | 20 | 51 | 71 |

Appendix E. 7. Annual Klukshu River weir counts of Chinook, sockeye, and coho salmon, 1976 to 2005.

| Year | Chinook ${ }^{\text {a }}$ |  | Sockeye |  |  |  | Coho ${ }^{\text {b }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Count | Escape. ${ }^{\text {c }}$ | Early ${ }^{\text {d }}$ | Late | Total | Escape. | Count | Escape. ${ }^{\text {c }}$ |
| 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 | 1,921 | 1,961 |
| 1999 | 2,193 | 2,168 | 371 | 5,010 | 5,381 | 5,101 | 2,481 | 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 |
| Averages |  |  |  |  |  |  |  |  |
| 76-04 | 2,508 | 2,295 | 3,224 | 14,389 | 17,614 | 15,380 | 1,989 |  |
| 95-04 | 2,552 | 2,442 | 3,092 | 11,983 | 15,075 | 14,187 | 3,173 | 3,172 |
| 2005 | 1,070 | 963 | 994 | 2,379 | 3,373 | 3,167 | 683 | 663 |

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

Appendix E. 8. Alsek River sockeye salmon escapement 2000 to 2004.

| Year | Inriver Run Estimate | Confidence Interval |  | Canadian Catch | Spawning <br> Escape. | $\begin{aligned} & \text { U.S. } \\ & \text { Catch } \end{aligned}$ | Total Run | Percent Klukshu |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Lower | Upper |  |  |  |  |  |
| 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\% |
| $\begin{aligned} & \hline \text { Averages } \\ & 00-04 \\ & \hline \end{aligned}$ | 70,338 |  |  | 1,819 | 68,519 | 19,782 | 90,120 | 25.2\% |

Appendix E. 9. Alsek River sockeye counts from U.S. and Canadian aerial surveys and from the electronic counter at Village Creek, 1985-2005.

| Year | U.S. Aerial Surveys ${ }^{\text {a }}$ |  |  |  | Canada Aerial Surveys ${ }^{\text {b }}$ |  | Village Creek Counter |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Basin | Cabin | Muddy | Tanis | Tatshenshini | Neskataheen |  |  |
|  | Creek | Creek | Creek | River | River | Lake |  |  |
| 1985 | 2,600 |  |  | 2,200 |  |  |  |  |
| 1986 | 100 |  | 300 | 2,700 | 536 | 750 | 1,490 |  |
| 1987 | 350 | 220 |  | 1,600 |  |  | 1,875 |  |
| 1988 | 500 |  |  | 750 | 433 | 456 | 433 | c |
| 1989 | 320 |  |  | 680 | 1,689 | 1,700 | 9,569 |  |
| 1990 | 275 | 300 |  | 3,500 |  |  | 5,313 | c |
| 1991 |  |  |  | 800 |  |  | 86 | c |
| 1992 | 1,000 | 10 |  | 50 |  |  | 7,447 | c |
| 1993 | 4,800 |  |  | 900 |  |  | 2,104 | c |
| 1994 | 250 |  |  | 600 | 366 |  | 3,921 | c |
| 1995 | 2,700 |  |  | 350 |  |  | 4,042 |  |
| 1996 | 325 |  |  | 650 |  |  | 1,583 |  |
| 1997 | 600 |  |  | 350 |  |  | 2,267 |  |
| 1998 |  |  |  | 130 |  |  | 826 |  |
| 1999 | 30 |  |  | 800 |  |  | NA | d |
| 2000 | 25 |  |  | 180 |  |  | 1,860 |  |
| 2001 |  |  |  | 700 |  |  | 1,897 | c |
| 2002 | No surveys flown |  |  |  |  |  | 2,765 |  |
| 2003 | No surveys flown |  |  |  |  |  | 2,778 | c |
| 2004 | No surveys flown |  |  |  |  |  | 1,968 | c |
| Averages |  |  |  |  |  |  |  |  |
| 85-03 | 991 | 177 | 300 | 996 | 756 | 969 | 2,901 |  |
| 94-03 | 655 |  |  | 470 | 366 |  | 2,391 |  |
| 2005 | No surveys flown |  |  |  |  |  | 1,408 |  |

${ }^{\text {a }}$ Surveys not made every year at each tributary.
${ }^{\mathrm{b}}$ Includes several streams from Lo-Fog to Goat Creek.
${ }^{\text {c }}$ Incomplete count due to machine malfunction.
${ }^{\mathrm{d}}$ No counts due to malfunction of the counter.

Appendix E. 10. Aerial survey index counts of Alsek River Chinook salmon escapements, 1984 to 2005.

|  | Blanchard <br> River | Takhanne <br> River | Goat <br> Creek |
| :--- | ---: | ---: | ---: |
| 1984 | 304 | 158 | 28 |
| 1985 | 232 | 184 | 142 |
| 1986 | 556 | 358 | 85 |
| 1987 | 624 | 395 | 54 |
| 1988 | 437 | 169 | 34 |
| 1989 | a | 158 | 32 |
| 1990 | $a$ | 325 | 63 |
| 1991 | 121 | 86 | 16 |
| 1992 | 86 | 351 | 50 |
| 1993 | 326 | 342 | 67 |
| 1994 | 349 | 260 | 12 |
| 1995 | 338 | 230 | 190 |
| 1996 | 132 | 136 | 194 |
| 1997 | 109 | 152 | 39 |
| 1998 | 71 | 287 | 51 |
| 1999 | 371 | 220 | 33 |
| 2000 | 163 | 105 | 21 |
| 2001 | 543 | 46 | 86 |
| 2002 | 351 |  | 10 |
| 2003 | 127 | 211 | No survey |
| 2004 | 84 | 182 | 47 |
| Averages |  | 47 | 48 |
| $84-04$ | 280 | 229 | 112 |

${ }^{\text {a }}$ Not surveyed due to poor visibility. 89,90 Blanchard
${ }^{\mathrm{b}}$ Late survey date which missed the peak of spawning goat 95

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 spawning in the Klukshu River; the program was discontinued in 2005.

| Year | Inriver Run <br> Past Dry Bay | Confidence Interval |  | U.S. Catch |  | Total Inriver Run | Canadian Catch |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Dry Bay Comm. | Subsist. |  |  |  |  |
|  |  | Lower | Upper |  |  |  | AFF | Sport | Escape. |
| 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 |  |  | 239 | 31 | 7,835 | 0 | 56 | 7,509 |
| Averages |  |  |  |  |  |  |  |  |  |
| 97-04 | 9,168 |  |  | 587 | 44 | 9,798 | 130 | 159 | 8,879 |


|  | Weir Count |  | Percent |
| :---: | :---: | :---: | :---: |
|  | All | Large | Klukshu |
| 1997 | 2,989 | 2,864 | 19.5\% |
| 1998 | 1,364 | 1,184 | 25.6\% |
| 1999 | 2,193 | 1,663 | 14.4\% |
| 2000 | 1,365 | 1,218 | 14.7\% |
| 2001 | 1,825 | 1,538 | 14.0\% |
| 2002 | 2,240 | 2,067 | 24.3\% |
| 2003 | 1,737 | 1,313 | 26.9\% |
| 2004 | 1,070 | 2,376 | 31.6\% |
| Averages |  |  |  |
| 97-04 | 1,848 | 1,778 | 21.4\% |

Appendix E. 12. Aerial survey counts of coho salmon from U.S. lower Alsek River tributaries, 19852000

| Year | Combined U.S.Tributary Counts |
| :--- | :---: |
| 1985 | 450 |
| 1986 | 1,100 |
| 1987 | 100 |
| 1988 | 1,900 |
| 1989 | 1,990 |
| 1990 | 1,600 |
| 1991 | 500 |
| 1992 |  |
| 1993 | 1,010 |
| 1994 | 800 |
| 1995 |  |
| 1996 |  |
| 1997 |  |
| 1998 | a |
| 1999 | No surveys due to poor weather conditions |
| 2000 |  |
| No survey due to poor weather conditions |  |
| Averages | 620 |
| $85-00$ |  |
| ${ }^{\text {Few systems surveyed }}$ |  |

Appendix F. 1. Tahltan Lake egg collection, fry plants, and survivals, 1989-2005. Numbers for eggs and fry are millions. Eggs collected from Tahltan broodstock are used for outplants to both Tahltan and Tuya Lakes.

| Broodyear | Egg Take |  | Designated Tahltan | Fry <br> Planted | Percent Fertilized | Survival |  | Thermal Mark Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Fertilized |  |  | Green |  |
|  | Target | Collected |  |  |  | Egg-Fry | Egg-Fry |  |
| 1989 | 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 | 0.985 | 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 | 0.890 | 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 | 0.800 | 0.920 | 0.644 | 1:1.6+2.6 |
| Averages |  |  |  |  |  |  |  |  |
| 89-04 | 5.650 | 4.488 | 2.517 | 1.935 | 0.881 | 0.890 | 0.784 |  |
| 95-04 | 6.000 | 4.488 | 2.675 | 2.093 | 0.883 | 0.895 | 0.781 |  |
| 2005 | 6.000 | 4.552 | 1.809 | 1.280 | 0.800 | 0.890 | 0.710 | 1:1.4+2.2 |

Appendix F. 2. Tuya Lake fry plants and survivals, 1991-2005.

| Brood Year | Egg Take Designated Tuya | $\begin{array}{r} \text { Fry } \\ \text { Planted } \end{array}$ | Percent Fertilized | Survival |  | Thermal Mark Pattern |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Fertilized | Green |  |
|  |  |  |  | Egg to Fry | Egg to Fry |  |
| 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 | 0.052 | 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 | 0.860 | 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 | 0.920 | 0.950 | 0.857 | 1:1.6+2.4 |
| Averages |  |  |  |  |  |  |
| 91-04 | 2.243 | 1.810 | 0.910 | 0.879 | 0.798 |  |
| 95-04 | 1.798 | 1.476 | 0.908 | 0.900 | 0.813 |  |
| 2005 | 2.744 | 2.138 | 0.9 | 0.86 | 0.779 | 1:1.4+2.4 |

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

Appendix F. 3. Tatsamenie Lake egg collection, fry plants, and survivals, 1990-2005.

| Brood <br> Year | Egg Take |  |  | Fry <br> Planted | Percent$\qquad$ | Egg to Fry Surv. |  | Thermal Mark Pattern | Last <br> Date <br> Release |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Target | Collect ${ }^{\text {a }}$ | Ship |  |  | Fert. | Green |  |  |
| 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 | $1: 1.4+2.5 n \& 1: 1.4+2.3,3.3$ | 20-May |
| Averages |  |  |  |  |  |  |  |  |  |
| 90-04 | 3.270 | 2.276 | 2.177 | 1.619 | 0.861 | 0.848 | 0.733 |  | 24-Jun |
| 95-04 | 3.830 | 2.794 | 2.645 | 2.006 | 0.894 | 0.849 | 0.760 |  | 18-Jun |
| 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 |


| Brood <br> Year | Treatment 1 |  |  |  | Treatment 2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mark | Treatment | Released |  | Mark | Treatment | Released |  |
|  |  |  | Number | Date |  |  | Number | Date |
| 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 ear. | 0.911 | 27-May | 1:1.4+2.3 | fed - IHN loss | 0.000 | none |
| 2003 | 1.1.5+2.3 | unfed early south | 1.005 | 27-May | 1.1.5 | unfed early north | 1.136 | 24-May |
| 2004 | $1: 1.4+2.5 \mathrm{~N}$ | unfed early south | 0.367 | 20-May | 1:1.4+2/3,3.3 | unfed early north | 0.261 | 20-May |
| Average |  |  |  |  |  |  |  |  |
| 96-04 |  |  | 1.336 |  |  |  | 0.724 |  |
| 2005 | 1:1.4+2.3 | unfed early south | 0.775 | 8-Jun | 1:1.4+2.5 | unfed early north | 0.696 | 8-Jun |

[^14]
[^0]:    ${ }^{\text {a }}$ Data not available to estimate contributions of pink salmon from Alaska hatcheries.

[^1]:    ${ }^{\text {a }}$ All Tahltan includes wild and thermally marked fish.

[^2]:    ${ }^{\text {a }}$ Tahltan includes wild and thermally marked fish.

[^3]:    a Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack<660 mef or $<735 \mathrm{fl}$.
    ${ }^{\mathrm{b}}$ Estimated season catch (spring and autumn) is 75-100 fish.
    ${ }^{\text {c }}$ Weekly catches and effort were estimated to represent $75 \%$ of the catch. The catch was expanded to account for this estimate, which was based on the fact that the sport fishery was only monitored five days per week and that the, presumably minor, Iskut sport fishery was not monitored

[^4]:    ${ }^{\text {a }}$ Tahltan includes wild and thermally marked fish.
    ${ }^{\mathrm{b}}$ Used the proportion observed in stat week 27 as a proxy for weeks 24-26

[^5]:    ${ }^{\text {a }}$ No broodstock collected in 2005

[^6]:    ${ }^{\mathrm{a}}$ Tahltan includes thermally marked fish.

[^7]:    ${ }^{\text {a }}$ Jacks as reported by fishery and loosely based on "small" fish $\sim 2.5-3.0 \mathrm{~kg}$; the jack catch may not correspond with the estimated jack catch based on samplin, I.e. jack $<660$ mef or $<735 \mathrm{fl}$.
    ${ }^{\text {b }}$ There was no commercial fishery in 1984.
    ${ }^{\text {c }}$ Chinook averages only since 1986 when large fish and jacks were recorded separately in all fisheries.

[^8]:    ${ }^{\text {a }}$ Average proportions were from averages of weekly estimates.

[^9]:    ${ }^{\text {a }}$ The averages for 1983-1985 are averages of weekly run timing estimates as well as stock composition estimates and are not simple averages of total estimates for the season.
    ${ }^{\mathrm{b}}$ Escapement includes fish later captured for broodstock and biological samples

[^10]:    ${ }^{\text {a }}$ Chum Salmon are not included because of the difficulty of making an accurate estimate, the majority of the summer chum catch was of hatchery origin.

[^11]:    ${ }^{\text {a }}$ Aboriginal catch by week is not available

[^12]:    ${ }^{\text {a }}$ 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.

[^13]:    ${ }^{\text {a }}$ Weir count combined with spawning ground count. Tatsamenie 88-90, Yehring 86-87, Nahlin 92.
    ${ }^{\mathrm{b}}$ Incomplete weir count. Tatsamenie 85-87, 93, 95, 96; and Nahlin 92
    ${ }^{\text {c }}$ Count is an average of surveys by different observers. Flannigan $86,87,88,90,91$;sockeye $86,87,88,90,91$;Fish $86,88,90,91$;
    Yehring 87, 88, 91,92
    ${ }^{\text {d}}$ Includes mark-recapture estimate. Yehring 89, 90
    ${ }^{e}$ Poor survey conditions. Nahlin 91.
    ${ }^{\mathrm{f}}$ Foot survey. Yehring 92, Sockeye 92
    ${ }^{\mathrm{g}}$ Surveys conducted before peak abundance on spawning grounds Flannigan 93, 94

[^14]:    ${ }^{\text {a }}$ Eggs not transported but placed in inlake incubator; $2000=244,000,2001=865,000,2002$ 196,000, $2003=190,000$.
    ${ }^{\mathrm{b}}$ Survival rates are for hatchery eggs and hatchery fry plants and do not inlcude the lake incubators.

