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SALMON CATCHES AND ESCAPEMENTS
TO THE TRANSBOUNDARY RIVERS IN 1987

## SALMON CATCHES AND ESCAPEMENTS <br> TO THE TRANSBOUNDARY RIVERS IN 1987

EXECUTIVE SUMMARY

Final estimates of the catch and escapement for Pacific salmon returning to the transboundary Stikine, Taku, and Alsek rivers are presented and compared with historic patterns. Conduct of U.S. and Canadian fisheries with respect to opening dates, days, and number of units of gear is also presented.

The abundances of the various species of Pacific salmon to the Stikine River in 1987 differed from those of recent years. The Stikine River sockeye salmon run was estimated to be only 43,000 of which 15,000 were harvested and 28,000 escaped to spawn. The U.S. catch was estimated to be 3,800 and the Canadian catch was 9,600. The spawning escapement of 7,000 to Tahltan Lake was less than desired despite reduced fishing effort. The estimated non-Tahltan escapement of 21,000 was within the desired range. Spring fishery restrictions remained in effect this year for chinook salmon and spawning escapement appeared greater than that observed in recent years. For Stikine coho salmon, estimates of U.S. marine catch are not available. The Canadian commercial catch of coho salmon was 5,700 which is greater than the last two years but slightly less than the 1980 to 1986 average. The Stikine River runs of pink and chum salmon are typically very small. In 1987, Canadian catches of these two species were below the 1980 to 1986 average.

The 1987 total return of Taku river sockeye salmon was 141,000 including a catch of 68,000 and an estimated escapement of 73,000 . While the run of Taku River sockeye salmon was less than expected, catches were close to the 1980 to 1986 averages. The total spawning escapement of Taku River sockeye salmon was within the desired goal range; however, there was a poor return of the Tatsamenie stock. Spring fishery restrictions remained in effect to protect Taku chinook salmon. The Canadian harvest of 127 large chinook salmon was less than the 1980 to 1986 average of 314 . Counts of large adult spawners in two index areas were approximately equal to the 1980 to 1986 average. Concern for high harvest rates of Taku coho and chum salmon in the marine gill net fishery prompted restrictions to both fishing time and area. The catch of 35,200 coho salmon in the District 111 gill net fishery was slightly above average, as was the Canadian coho harvest of 5,600 . An estimate of coho spawning escapement made using mark-recapture techniques for the first time was 35,000 to 40,000 . Although the estimate is imprecise, sufficient numbers
of coho salmon appeared to escape the fishery to assure conservation. No estimates of Taku coho salmon harvested outside the near-terminal area are available. The Canadian catch of 2,300 Taku chum salmon was approximately one-half the 1980 to 1986 average. The magnitude of the escapement of chum salmon is unknown. The return of Taku pink salmon appeared to be large, as were returns to other systems in the area and to the hatchery in Juneau. The District 111 catches of 356,000 was almost twice that of the 1980 to 1986 average, while the Canadian catch of 6,300 was slightly below the 1980 to 1986 average. The estimated escapement of Taku pink salmon, based on markrecapture analysis, was 740,00 to 870,000 .

In the Alsek River, the predicted strong return of sockeye salmon materialized in the early run, but not in the late run. Regulations protecting the earlyrun sockeye salmon were again implemented in Canada. The U.S. commercial catch of 11,300 sockeye was less than one-half the 1980 to 1986 average with the majority of fish taken during the first few weeks of the fishery. Sockeye escapements have been monitored at a weir on the Klukshu River since 1976 and the count for 1987 was approximately one-half the 1976 to 1986 average. Spring fishery restrictions continued on the Alsek River to protect chinook salmon. The escapement of 2,600 chinook salmon to the Klukshu River weir was slightly above the 1980 to 1986 average. The U.S. inriver coho salmon catch of 2,500 was only about one-third that of the 1980 to 1986 average; however, fishing effort was also very low. The coho escapement of 200 to the Klukshu River weir was approximately one half the 1980 to 1986 average. However, this is only a partial count of the escapement as the weir is removed prior to completion of the run.

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## INTRODUCTION

This report includes 1987 catch and escapement data for Pacific salmon returning to the transboundary Stikine, Taku and Alsek Rivers. Catch and effort data, by management week (U.S. statistical week), are presented for each river for both U.S. and Canadian fisheries. Sockeye runs to the three rivers are reconstructed using harvest data and spawning escapement estimates. Spawning escapement data for all species are reported using available weir counts and other escapement survey estimates. In 1987, no annex provisions were in effect to regulate harvest sharing of Stikine and Taku sockeye and coho salmon.

## STIKINE RIVER

Stikine River salmon are harvested by U.S. gill net fisheries in Alaska Districts 106 and 108, Canadian lower and upper river commercial fisheries and Canadian subsistence fisheries (Figure 1). Catch and effort data for these fisheries, by week, for 1987 are given in Appendix A. Yearly totals for historical years as well as 1987 are given in Appendix B. Test fisheries' catch and effort data from Districts 106 and 108 and from inriver are also given in these appendices; as well as stock proportions for the various fisheries, weir escapement counts, and smolt counts. Catches of unknown quantity are taken in Alaskan troll fisheries. Sport fisheries near Wrangell and Petersburg harvest some Stikine River salmon. A sport fishery also exists in the Canadian portion of the river and the catches from this fishery are thought to be low.

## Fishing Effort

In both District 106 and 108 the total number of days the fishery was open during 1987 was below average. In District 106 the fishery was open 20 days in 1987 versus a 30 day average opening for 1980 to 1986 and a 34 day average for 1964 to 1986. In District 108 the fishery was open 13 days in 1987 versus a 16 day average opening for 1980 to 1986 and a 28 day average for 1964 to 1986 .


Figure 1. Map of the Stikine River and U.S. fishing districts off the mouth of the river.

The fishing season started June 21 in both districts. The number of boats participating in the District 106 fishery was greater than usual in the early part of the season but fell below average towards the end of the season. Fishing in District 108 was restricted each week to conserve various salmon stocks and effort was lower than usual throughout the entire season. Total boat-days for the season was less than historical averages in both districts (Figure 2).

The Canadian lower river commercial fishery commenced June 29 and was open for a total of 20 days during the season. This is approximately half the 1980 to 1986 average of 39 days. Fishing effort in boat-days was also almost half the historical average (Figure 2). Fishing effort in the upper river commercial fishery was greater in 1987 than in previous years.

A test fishery to assess stock strength and composition was conducted in Canada near the international border from mid-June to mid-October. Increased fishing effort was put into this test fishery over previous years in order to increase sample sizes for run timing estimation.

The U.S. operated test fisheries in District 106 in Sumner Strait and in District 108 in Frederick Sound to assess stock strength. These test fisheries ran for six weeks from mid-June to late July. There was also a gill net efficiency evaluation test fishery conducted in District 106 during the months of July and August. The U.S. also operated a set net test fishery in the mouth of the Stikine River from June 28 to August 8 to collect stock composition data.

## Sockeye

Based upon a parent year (1982) escapement of 28,257 sockeye salmon to Tahltan Lake, the total run (Tahltan and non-Tahltan stocks) to the Stikine River in 1987 was forecast to be slightly above average (1980-1986 average equals 113,068). The run which materialized was estimated to be 43,323 of which 15,344 were harvested by U.S. and Canadian fisheries and 27,979 escaped to spawn (Table 1).


Figure 2. Average catches and fishing efforts compared with 1987 values for the District 106 , District 108 , and the Canadian lower Stikine River commercial fishery.

Table 1. Run reconstruction of Stikine River sockeye salmon for 1987. The Tahltan escapement is counted at a weir; catches are known and stock proportions are estimated; the proportion of Tahltan stock in the inriver run is determined from the inriver test fishery using the drift gill net for total sockeye run timing estimates and both the drift and set gill net for weekly stock compositions; the rest of the table is filled in by appropriate addition or subtraction.

|  | Tahltan | Non-Tahltan | Total |
| :---: | :---: | :---: | :---: |
| Escapement | 6,958 | 21,021 | 27,979 |
| Canadian Harvest |  |  |  |
| Indian Food | 2,681 | 298 | 2,979 |
| Upper Commercial | 448 | 50 | 498 |
| Lower Commercial | 1,380 | 4,758 | 6,138 |
| Total | 4,509 | 5,106 | 9,615 |
| \% of Harvest | 68\% | 75\% | $72 \%$ |
| Test Fishery Catch | 455 | 1,213 | 1,688 |
| Inriver Run | 11,922 | 27,340 | 39,262 |
| District Harvest |  |  |  |
| 106-30 | 221 | 710 | 931 |
| 108 | 710 | 707 | 1,417 |
| Total | 2,086 | 1,675 | 3,761 |
| \% of Harvest | 32\% | 25\% | $28 \%$ |
| Test Fisheries Catch | 168 | 132 | 299 |
| Total Run | 14,176 | 29,147 | 43,323 |
| Escapement Goal Range | 20,000-40,000 | 20, 000-40,000 |  |
| Total Allowable Catch | 0 | 0-9,147 |  |

The 1987 District 106 total sockeye harvest of 136,427 is approximately 50\% above the 1964-1986 average of 89,546, but is slightly less than the 1980 to 1986 average of 147,853 (Figure 2). In contrast, the District 108 sockeye harvest of 1,620 is far below the 1964 to 1986 average and approximately one-third the 1980 to 1986 average of 5,212 (Figure 2). Scale pattern analysis indicates that 3,761 (3\%) of the 138,047 sockeye salmon harvested in Districts 106 and 108 were of Stikine River origin. Of these, 1,675 were Tahltan stock and 2,086 were non-Tahltan stocks.

The Canadian lower river commercial fishery caught 6,138 sockeye salmon compared to an average of 16,738 over the previous seven years (Figure 2); 1,380 (22\%) of these were of Tahltan Lake origin. Total harvest of sockeye
salmon in the upper river commercial fishery and the Indian food fishery was 3,477. Ninety percent of the upper river harvest is assumed to be Tahltan stock giving a harvest of 3,129 for this stock in the upper river.

Of the total estimated harvest of Stikine River sockeye salmon (excluding test fishery catch) Canadian fishermen harvested 9,615 (72\%) while U.S. fishermen harvested 3,761 (28\%) (Table 1).

The weir count of 6,958 for Tahltan sockeye salmon is well below the lower limit $(20,000)$ of the desired green range of the escapement goal and is also less than the lower limit $(18,000)$ of the acceptable yellow range ${ }^{1}$. Based on analysis of test fishery catch-per-unit-effort and stock composition data, the escapement of non-Tahltan stocks was estimated to be 21,021 (Table 1). This is within the desired (green) escapement range of 20,000 to 40,000 fish.

## Chinook

The total run of chinook salmon to the Stikine River in 1987 was predicted to be above average. The District 106 and 108 drift gill net fisheries harvested 836 and 149 chinook salmon, respectively. Both of these catches are below the 1980 to 1986 averages (Figure 2). To minimize the incidental harvest of maturing spring-run chinook salmon, the area around the river mouth was closed to fishing during the first two weeks of the fishing season, from June 21 to July 4. In District 106, immature chinook salmon were predominate in catches and were caught incidentally during fisheries directed at other species; these chinook salmon originate from a variety of stocks.

Harvest of chinook salmon within the Canadian lower and upper commercial fisheries and in the Indian food fishery included 444 jacks and 2,201 large adult fish. Catches of chinook salmon were greater than the average (1980-1986) for each of the three fisheries (Figure 2). Above average catches occurred in the commercial fishery despite a relatively late opening date, restricted mesh sizes and very limited fishing time early in the season. This is consistent with the relatively strong return of chinook to the Stikine River in 1987 as evidenced by above average spawning escapements. Approximately, $40 \%$ of the 909 large chinook salmon caught in the lower river

[^0]commercial fishery and approximately 40 fish caught in the test fishery were purchased by a private firm and held in pens until ripe. Upon maturation, gametes were taken from these fish and fertilized. The eggs were incubated to the eyed-stage and then shipped to a mariculture operation on Vancouver Island.

Based on aerial survey counts of large (3- and 4-ocean age) fish, the escapement of chinook salmon in the Stikine river appeared to be greater than that observed in recent years. An aerial count of 2,706 fish on the Little Tahltan River in 1987 is $116 \%$ more than that counted in 1986. The count of 4,781 large adult chinook salmon at Little Tahltan weir in 1987 is greater than the count in either 1986 or 1985.

## Coho

Management emphasis in Districts 106 and 108 changed from pink to coho salmon during statistical week 35 (beginning August 23). A single day of fishing was permitted during the first week of the coho management period in both districts to test the strength of the return. In District 108, effort was low while catch per unit of effort was average to below average. In District 106, coho catch per unit of effort was average (excluding hatchery contribution). The total coho catch in District 106 of 34,534 is $30 \%$ below the 1964 to 1986 average and $47 \%$ below the 1980 to 1986 average (Figure 2). Most of this harvest (69\%) occurred prior to directed management for coho salmon. Coded-wire tag information for District 106 indicates hatchery coho salmon contributed 5,500 fish (16\%) of the total harvest. The District 108 coho harvest of 1,015 was well below the 1980 to 1986 average (Figure 2).

The Canadian coho harvest of 5,728 in the lower river commercial fishery was three percent below the 1980 to 1986 average (Figure 2). The coho escapement estimate, generated by Canada from a test drift gill net fishery, was 7,300 fish. This estimate is based on the ratio of test minus commercially caught sockeye salmon to test minus commercially caught coho salmon. The cumulative catch of coho salmon in the test fishery was 31 percent of the cumulative catch of sockeye salmon in the test fishery.

A below average pink salmon return was predicted for District 108. Pink salmon harvests in District 108 fell below both the 1964 to 1986 average and the 1980 to 1986 average (Figure 2). Escapements in Frederick Sound were near average while escapement throughout the remainder of District 108 fell below goals. The pink salmon catch in the Canadian lower river commercial fishery (646) was also below average.

Chum

The District 108 chum salmon harvest of 949 is substantially below both the 1964 to 1986 average (5, 433) and the 1980 to 1986 average (3,090) (Figure 2). The poor catch is primarily a result of restricted fishing time in Frederick Sound imposed to conserve sockeye salmon. The chum catch in the Canadian lower river commercial fishery (432) was slightly below the 1980 to 1986 average of 620 fish.

Taku River salmon are taken by the U.S. in troll fisheries in Southeast Alaska, in commercial and test drift gill net fisheries in Alaska District 111, in Alaska District 112 and 114 seine net fisheries, and in the Juneau area sport fishery. Canadian fisheries for Taku River salmon include inriver commercial and test gill net, Induan food and sport fisheries. The Taku River and U.S. fishing districts off the mouth of the river are shown in Figure 3 . Weekly catch and effort data for the U.S. District 111 and Canadian inriver fisheries are presented in Appendix $C$ and historical annual data are presented in Appendix D. Test fisheries catch and effort data, stock proportions in the fisheries, escapement counts, and mark-recapture estimates of the sockeye salmon run are also given in these appendices.


Figure 3. Map of the Taku River and U.S. fishing districts off the mouth of
the river.

The District 111 drift gill net fishery was opened from 21 June to 28 September; fishing time totaled 35.75 days. This represents $89 \%$ of the average annual fishing time allowed from 1980 to 1986. Fishing effort (boat-days) for the 1987 season was slightly greater than past averages (Figure 4). The number of boats fishing during the summer sockeye season (weeks 26 to 33, June 21 to August 11) ranged from 50 to 97, while the number of boats in the fall fishery (weeks 34 to 40 , August 16 to September 27) ranged from 5 to 153 . A test fishery was conducted during the summer and fall fishing seasons to compare the efficiency of different types of gill nets. Two boats each fished one day per week from July 5 to August 1 (weeks 28 through 31) and from August 23 to September 19 (weeks 35 through 38).

The Canadian inriver fishery was opened from 29 June to 24 September, for a total of 26.2 days. The number of fishermen varied from 5 to 13 each week. Total effort was $15 \%$ below the historical average (Figure 4). A gill net test fishery was conducted from 27 July to 16 October to provide an index of coho and chum salmon abundance. One boat made 10 standardized drifts each day when the commercial fishery was closed.

## Sockeye

Based on results from the Canyon Island mark-recapture program and scale pattern analysis of District 111 catches, the estimate for the total Taku River sockeye return for 1987 was 141,579 fish (Table 2). This is $36 \%$ below the preseason forecast of 221,000 sockeye salmon. The District 111 and Canadian inriver gill net catch included 53,581 (80\%) and 13,554 (20\%) sockeye salmon, respectively, of Taku River origin. These figures exclude the Alaskan test fishery catch of 1,030 Taku sockeye salmon and the Canadian test fishery catch of 237. The total sockeye spawning escapement to the Taku River is then estimated at 73,339 (Table 2). This falls within the interim escapement goal range of 71,000 to 80,000 . In addition to Taku River sockeye salmon, the District 111 drift gill net commercial and test fisheries harvested an estimated 21,038 sockeye salmon returning to Speel and Crescent Lakes in Fort Snettisham. This represents $28 \%$ of the total District 111 sockeye catch.




Figure 4. Average catches and fishing efforts compared with 1987 values for the District 111 and Taku River fisheries.

Table 2. Run reconstruction for Taku River and Port Snettisham sockeye salmon for 1987. Inriver run is determined from a mark-recapture study. Escapement is equal to inriver run minus Canadian commercial and test fishery harvest. Total run equals inriver run plus U.S. commercial and test fishery harvest.

|  | Taku | Snettisham | Total | \% | Snettisham |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Escapement | 73,339 | 17,158 |  |  |  |
| Canadian Harvest |  |  |  |  |  |
| Inriver commercial | 13,554 |  |  |  |  |
| \% of Harvest | 20\% |  |  |  |  |
| Inriver test fish. | 237 |  |  |  |  |
| Inriver Run | 87,130 |  |  |  |  |
| U.S. Harvest ${ }^{\text {a }}$ |  |  |  |  |  |
| Dist. 111 commercial | 53,419 | 21,038 | 74,457 |  | 28\% |
| \% of Harvest | 80\% |  |  |  |  |
| Dist. 111 test fish ${ }^{\text {b }}$ | 1,030 | 401 | 1,431 |  | 28\% |
| Total Run | 141,579 |  |  |  |  |
| Taku Escapement Goal Range 71,000-80,000 |  |  |  |  |  |
| Total Allowable Catch | 61,57 | -70,579 |  |  |  |

a. Does not include possible interception of Taku sockeye in Alaska districts 112 and 114 pink salmon purse seine fishery.
b. Stock composition estimates for commercial harvest were applied to test fishery harvest.

Based on scale pattern analysis, four distinct sockeye stocks can be recognized within the Taku River. Of these, only the Trapper and Tatsamenie Lake stocks are counted through weirs for escapement estimation. The Trapper Lake escapement of 12,007 compares closely with the 1983 to 1986 average of 12,229; however, the Tatsamenie Lake count of only 2, 794 fish is $77 \%$ below the 1985 and 1986 average of 12,192 fish. The poor Tatsamenie sockeye run strength was reflected early in the season by stock composition estimates based on scale samples taken in the District 111 gill net fishery and the Canyon Island fishwheels.

Despite a total closure of Port Snettisham to fishing from 21 June to 17 August, the combined Speel Lake and Crescent Lake sockeye escapement of 17,158 was only half of the escapement target of 34,000 (12,000 speel plus 22,000 Crescent). The Speel Lake weir count of 9,319 was slightly better than the 1983-1986 average of 8,295, while the Crescent Lake count of 7, 839 was 15\% below the average weir count for the same period.

## Chinook

The District 111 drift gill net fishery harvested 2,105 chinook salmon in 1987. Although this is an average chinook harvest for the 1980 to 1986 period (Figure 4), a larger than average proportion of the harvest was comprised of immature fish. Night closures were imposed between July 5 and 18 (weeks 28 and 29) to minimize catches of immature fish. In addition, the fishing area above Jaw Point was closed during the first two weeks of the fishery (week 26 and 27) to protect mature Taku River chinook salmon.

The Canadian harvest of 233 chinook salmon was below the 1980 to 1986 average harvest of 322 (Figure 4). Incidental harvests were minimized by the relatively late fishery opening date, restricted mesh sizes, and limited fishing time allowed early in the season.

The maximum number of large adult (3- and 4-ocean age) chinook salmon observed during aerial surveys of the Nakina and Nahlin Rivers was 4,028 fish. This escapement is $74 \%$ of the 1986 count and is $87 \%$ of the 1980 to 1986 average of 4,219 fish.

## Coho

The District 111 drift gill net coho catch of 35,173 is slightly above the 1980 to 1986 average of 34,111 fish and the 1964 to 1986 average of 33,642 fish (Figure 4). Maximum weekly coho catches occurred in Taku Inlet during the period August 23 to 31 (weeks 35 and 36 ) when weekly effort levels were above average. Although weekly coho catches and catch-per-unit-effort levels were average during this time, the test fishing vessels indicated very few coho and chum salmon were passing through the District 111 gill net area during the closed periods. Consequently, to conserve coho and chum salmon, area and time restrictions were imposed on the fishery from 6 to 29 September.

The Canadian harvest of 5,599 coho salmon exceeded the 1980 to 1986 average harvest of 3,909 fish (Figure 4). Test fisheries, conducted in District 111 and in Canadian portions of the Taku River, took 542 and 815 coho salmon, respectively.

The estimated coho escapement past the Canadian fishery was approximately 35,000 to 40,000 fish based on a mark-recapture study. However, this estimate is likely conservative because tagging was terminated prior to the end of the run. Based on test fishery data, the mark-recapture study included approximately 70 percent of the coho migration. Low water and slow currents precluded capture of coho salmon for tagging after September 20.

## Pink

Based on the extremely large 1985 parent year escapement of pink salmon into the Taku River, the 1987 return was forecast to be large. This year's pink catch of 355,725 in District 111 is about twice the 1980 to 1986 average (Figure 4). The catch in this area is comprised of Taku River, Stephens Passage, and hatchery stocks. Additional fishing time or areas were not allowed in Taku Inlet or upper Stephens Passage to harvest this large return. Lower Stephens Passage was open, however, from July 26 to August 5 (weeks 31 and 32) for a total of nine days to harvest surplus pink salmon returns destined for streams in lower Stephens Passage and Seymour Canal.

From the mark-recapture study conducted at Canyon Island, the estimated pink salmon escapement was between 740,000 to 870,000 . This range represents estimates from two analytical methods, both of which have broad confidence intervals associated with them.

## Chum

The commercial chum salmon harvest in District 111 was 121,862 fish (Figure 4), representing the third highest catch in the district since 1964. This harvest was comprised of summer and fall runs. Since 1984, the Snettisham hatchery has significantly increased its contribution of summer chum salmon to the fishery. Coded wire tag return data indicate that, of the 57,418 summer chum salmon caught prior to August 18 , approximately 13,000 were of hatchery origin.

The strong return of hatchery chum salmon to District 111 during July 19 to 25 (week 30) triggered an additional 24 hour fishing period. During this extension, fishing was restricted to Stephens Passage, south of Graves Point, in order to minimize the catch of Taku origin sockeye salmon.

The fall fishery harvests chum and coho salmon originating in the Taku River system and chum salmon returning to Port Snettisham. The total fall chum harvest 64,444 fish is the highest since 1980. However, 57\% of the catch was taken in Stephens Passage and Port Snettisham, indicating the primary run strength was returning to Port Snettisham. Extremely poor test fish catches from inside Taku Inlet supported this conclusion. Consequently, fishing time was reduced to 24 hours per week, and Taku Inlet was closed north of a line from Greely to Cooper Points beginning in statistical week 37 (September 6).

The Canadian commercial fishery harvested 2,270 chum salmon. This number is substantially below the 1980 to 1986 average of 4,087 fish (Figure 4). The District 111 and Canadian inriver test fisheries harvested 1,598 and 743 chum salmon, respectively. Canadian catches include released fish.

Escapement of chum salmon to the Taku River in 1987 is not known. High water conditions in the fall hampered aerial surveys and no population estimate was generated from the adult mark-recapture program.

## ALSEK RIVER

Fisheries for Alsek River salmon include an Alaskan set net fishery in Dry Bay at the mouth of the Alsek and Canadian Indian food and sport fisheries in the upper Tatshenshini River drainage (Figure 5). Sockeye and coho salmon are the target species in the Dry Bay fishery, with small numbers of chinook and chum salmon taken incidentally. Unknown, but presumed small, numbers of Alsek River salmon are taken incidentally in Yakutat area fisheries. Sockeye and chinook salmon are target species in the Canadian fisheries. Catch and effort data from the U.S. Alsek River fishery and the Canadian inriver sport and Indian food fisheries are presented in Appendix $E$, as well as escapement counts.


Figure 5. Map of the Alsek River.

## Sockeye

Management objectives for the Alsek River include rebuilding the early portion of the Klukshu River stock and allowing a total sockeye escapement to the Klukshu River of 20,000 to 30,000 fish. Based on parent year escapements, the 1987 return of early and late run Alsek sockeye salmon was expected to be above average; however, the actual total return was disappointing.

The early portion of the run appeared strong, as the Dry Bay fishery catches were high in early weeks. Catches are usually greatest during weeks 27 to 31; in 1987 the catches were greatest during week 25. Of the total Dry Bay catch of 11,281 sockeye salmon, more than 50 percent were taken during the first three weeks of the fishery. The sockeye fishery was closed July 12 (week 30). The total catch of sockeye salmon was $46 \%$ of the 1980 to 1986 average (Figure 6).

The sockeye harvests in the Canadian Indian food and sport fisheries were 1,158 and 383 fish, respectively. These represent $51 \%$ and $75 \%$ of the 1980 to 1986 averages of 2,264 and 513 fish, respectively, for the two fisheries (Figure 6). Canadian closures to protect early sockeye salmon runs were implemented again in 1987; hence the poor catches for the year.

The Klukshu River weir escapement of 10,504 sockeye salmon was the lowest recorded since the weir was installed in 1976. The early run portion of the escapement, that arriving before August 15, was 3,269 fish, an increase of approximately 17 percent over the 1980 to 1986 average; the late portion of the run, 7, 235 fish, was less than half the 1980 to 1986 average. While the early portion of the run was greater than in the previous three years, it was only 42 percent of the parent year (1972) escapement of 7,758 fish.

## Chinook

Chinook spawning escapements in the Klukshu index tributary of the Alsek River for the principal brood years of the 1987 return (1981 to 1983) were about average. However, chinook returns to the Alsek River have in recent years been below expectations. The 1987 fishing season in the Dry Bay area was opened on June 8 for one-half day in order to test the strength of the early sockeye run. This opening was one week earlier than the fishery had opened since 1983, but one week later than that allowed by regulation. The Dry Bay chinook catch in 1987 was 347 fish, $69 \%$ of the 1980 to 1986 average (Figure 6).


Figure 6. Average catches and fishing efforts compared with 1987 values for the Alsek River fisheries.

Chinook catches in the Canadian sport and Indian food fisheries were 327 and 125 fish, respectively. The combined catch is slightly above the average combined catch (Figure 6).

The escapement of chinook salmon to the Klukshu River was 2,616 fish, slightly exceeding both the 1976 to 1986 average of 2,482 fish and the 1980 to 1986 average of 2,214 fish.

Coho

The U.S. Alsek River coho harvest of 2,517 fish represents only $40 \%$ of the 1980 to 1986 average (Figure 6). The low catch is believed to be largely due to the reduced fishing effort rather than poor fish abundance. Fishing effort during the fall season in this area was extremely low because of good fishing in the nearby East River.

Approximately 23 coho salmon were harvested by Canadian anglers in the vicinity of the Klukshu weir. The Canadian Indian food fishery did not harvest any coho salmon.

The escapement of coho salmon to the Klukshu River weir was 202 fish. This represents 34 percent of the 1980 to 1986 average weir count. Since the weir was dismantled in mid-October, before the coho run was completed, the escapement count is incomplete.

APPENDIX A. Stikine River data for 1987

Appendix Table A.1. Subdistrict $106-41$ and -42 , Sumner Strait, weekly catch and effort data, 1987, for the drift gill net fishery.

|  |  |  |  | atch |  |  | Effo |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 26 | 6/21 | 131 | 3,845 | 253 | 543 | 418 | 66 | 2 |
| 27 | 6/28 | 107 | 7,514 | 639 | 5.951 | 875 | 72 | 2 |
| 28 | 7/05 | 52 | 15,175 | 1,526 | 19.476 | 1,566 | 73 | 2 |
| 29 | 7/12 | 34 | 13,761 | 2,032 | 21,374 | 3,066 | 82 | 2 |
| 30 | 7/19 | 25 | 14,031 | 1,923 | 18,814 | 4,186 | 45 | 2 |
| 31 | 7/26 | 10 | 10,232 | 2,267 | 12,553 | 4,419 | 48 | 2 |
| 32 | 8/02 | 33 | 11,075 | 3,170 | 25,322 | 5,778 | 48 | 2 |
| 33 | 8/09 | 12 | 3,444 | 1,238 | 12,630 | 1,986 | 39 | 1 |
| 34 | 8/16 | - |  | - | - | - | - | 0 |
| 35 | 8/23 | 2 | 72 | 1,386 | 343 | 1,009 | 21 | 1 |
| 36 | 8/30 | 4 | 13 | 1,281 | 40 | 595 | 10 | 1 |
| 37 | 9/06 | 9 | 2 | 1,032 | 11 | 732 | 12 | 1 |
| 38 | 9/13 | 22 | 1 | 1,029 | 2 | 1,247 | 14 | 2 |
| Total |  | 441 | 79,165 | 17,776 | 117,059 | 25,877 |  | 20 |
| Total effort in boat-days |  |  |  |  |  |  |  | 78 |

Data from Run Time 10-13-88.

Appendix Table A.2. Stock proportions of sockeye catch from Subdistrict 10641 and -42, Sumner Strait, for 1987 for the drift gill net fishery. Stock proportions are determined from scale pattern analysis; Alaskan stocks consist of Alaska group I and Alaska group II, the Canadian stock is from the Nass and Skeena Rivers combined, and the Stikine River stocks are Tahltan Lake and all remaining stocks grouped as Non-Tahltan. Tahltan Lake and Non-Tahltan stocks are kept separate in order to permit run reconstruction.

| Week | Alaska | Canada | Tahltan | Non-Tahltan | Stikine <br> (Tahltan+Non-Tahltan) |
| ---: | ---: | ---: | ---: | ---: | :--- |
| 26 | 0.91 | 0.08 | 0.013 | 0.000 | 0.013 |
| 27 | 0.85 | 0.13 | 0.013 | 0.000 | 0.013 |
| 28 | 0.62 | 0.33 | 0.051 | 0.003 | 0.054 |
| 29 | 0.87 | 0.12 | 0.008 | 0.000 | 0.008 |
| 30 | 0.90 | 0.07 | 0.008 | 0.015 | 0.023 |
| 31 | 0.88 | 0.12 | 0.000 | 0.000 | 0.000 |
| 32 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 33 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 34 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 35 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 36 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 37 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |
| 38 | 0.79 | 0.21 | 0.000 | 0.000 | 0.000 |

Appendix Table A.3. Sockeye catch by stock group from Subdistrict 106-41 and -42, Sumner Strait, for 1987 for the drift gill net fishery.

| Week | Alaska | Canada | Tahltan | Non-Tahltan | Stikine (Tahltan+ Non-Tahltan) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 3,505 | 289 | 51 | 0 | 51 | 3,845 |
| 27 | 6,418 | 996 | 100 | 0 | 100 | 7,514 |
| 28 | 9,396 | 4,962 | 774 | 43 | 817 | 15,175 |
| 29 | 12,016 | 1,629 | 116 | 0 | 116 | 13,761 |
| 30 | 12,659 | 1,043 | 114 | 215 | 329 | 14,031 |
| 31 | 8,986 | 1,246 | 0 | 0 | 0 | 10,232 |
| 32 | 8,800 | 2,275 | 0 | 0 | 0 | 11,075 |
| 33 | 2,732 | 712 | 0 | 0 | 0 | 3,444 |
| 34 |  | --no | fishing |  |  |  |
| 35 | 57 | 15 | 0 | 0 | 0 | 72 |
| 36 | 10 | 3 | 0 | 0 | 0 | 13 |
| 37 | 2 | 0 | 0 | 0 | 0 | 2 |
| 38 | 1 | 0 | 0 | 0 | 0 | 1 |
| Total | 64,582 | 13,170 | 1,155 | 258 | 1,413 | 79,165 |

Appendix Table A.4. Subdistrict 106-30, Clarence Strait, weekly catch and effort data, 1987, for the drift gill net fishery.


Data from Run Time 10-13-88.

Appendix Table A.5. Stock proportions of sockeye catch from Subdistrict 10630, Clarence Strait, for 1987 for the drift gill net fishery. Stock proportions are determined from scale pattern analysis; Alaskan stocks consist of Alaska group I and Alaska group II, the Canadian stock is from the Nass and Skeena Rivers combined, and the Stikine River stocks are Tahltan Lake and all remaining stocks grouped as Non-Tahltan. Tahltan Lake and Non-Tahltan stocks are kept separate in order to permit run reconstruction.

|  |  |  |  | Stikine <br> Week |  |
| ---: | ---: | ---: | ---: | :---: | :--- |
| Alaska | Canada | Tahltan | Non-Tahltan | Tahltan+Non-Tahltan) |  |

Appendix Table A.6. Sockeye catch by stock groups from Subdistrict 106-30, Clarence Strait, for 1987 for the drift gill net fishery.

| Week | Alaska | Canada | Tahltan | Non-Tahltan | Stikine (Tahltan+ Non-Tahltan) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 1,122 | 33 | 135 | 14 | 149 | 1,304 |
| 27 | 2,556 | 358 | 4 | 0 | 4 | 2,918 |
| 28 | 4,745 | 805 | 6 | 14 | 20 | 5,570 |
| 29 | 6,834 | 1,035 | 76 | 580 | 656 | 8,525 |
| 30 | 9,493 | 1,147 | 0 | 0 | 0 | 10,640 |
| 31 | 10,283 | 2,483 | 0 | 0 | 0 | 12,766 |
| 32 | 10,270 | 1,683 | 0 | 0 | 0 | 11,953 |
| 33 | 2,782 | 440 | 0 | 94 | 94 | 3,316 |
| 34 |  | --no | fishing- |  |  |  |
| 35 | 159 | 25 | 0 | 5 | 5 | 189 |
| 36 | 58 | 9 | 0 | 2 | 2 | 69 |
| 37 | 3 | 1 | 0 | 0 | 0 | 4 |
| 38 | 7 | 1 | 0 | 0 | 0 | 8 |
| Total | 48,311 | 8,020 | 221 | 710 | 931 | 57,262 |

Appendix Table A.7. District 106 weekly catch and effort data, 1987, for the drift gill net fishery (excluding Blind Slough terminal hatchery area).

|  |  |  |  | atch |  |  | Effo |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 26 | $6 / 21$ | 171 | 5,149 | 331 | 608 | 499 | 95 | 2 |
| 27 | 6/28 | 152 | 10,432 | 982 | 7,533 | 1,040 | 108 | 2 |
| 28 | $7 / 05$ | 114 | 20,745 | 2,516 | 25,887 | 1,888 | 105 | 2 |
| 29 | 7/12 | 67 | 22,286 | 3,252 | 39,224 | 3,916 | 156 | 2 |
| 30 | 7/19 | 50 | 24,671 | 3,771 | 37,149 | 5,322 | 86 | 2 |
| 31 | 7/26 | 33 | 22,998 | 4,228 | 34,406 | 6,598 | 97 | 2 |
| 32 | 8/02 | 69 | 23,028 | 5,794 | 64,996 | 9,168 | 112 | 2 |
| 33 | 8/09 | 114 | 6,760 | 2,918 | 29,580 | 4,123 | 90 | 1 |
| 34 | 8/16 | - | - | - | - | - | - | 0 |
| 35 | 8/23 | 6 | 261 | 3,406 | 2,517 | 2,062 | 46 | 1 |
| 36 | 8/30 | 7 | 82 | 2,624 | 1,423 | 1,622 | 34 | 1 |
| 37 | 9/06 | 23 | 6 | 2,188 | 133 | 2,820 | 27 | 1 |
| 38 | 9/13 | 30 | 9 | 2,524 | 26 | 2,967 | 31 | 2 |
| Total |  | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 20 |  |
| Total effort in boat-days |  |  |  |  |  |  | 1777 |  |

Data from Run Time 10-13-88.

Appendix Table A.8. Stock proportions of sockeye catch from District 106 for 1987 for the drift gill net fishery. Stock proportions are determined from scale pattern analysis; Alaskan stocks consist of Alaska group I and Alaska group II, the Canadian stock is from the Nass and Skeena Rivers combined, and the Stikine River stocks are Tahltan Lake and all remaining stocks grouped as Non-Tahltan. Tahltan Lake and Non-Tahltan stocks are kept separate in order to permit run reconstruction.

| Week | Alaska | Canada | Tahltan | Non-Tahltan | Stikine <br> (Tahltan+Non-Tahltan) |
| :---: | ---: | ---: | ---: | :--- | :--- |
| 26 | 0.90 | 0.06 | 0.036 | 0.003 | 0.039 |
| 27 | 0.86 | 0.13 | 0.010 | 0.000 | 0.010 |
| 28 | 0.68 | 0.28 | 0.038 | 0.003 | 0.040 |
| 29 | 0.85 | 0.12 | 0.009 | 0.026 | 0.035 |
| 30 | 0.90 | 0.09 | 0.005 | 0.009 | 0.013 |
| 31 | 0.84 | 0.16 | 0.000 | 0.000 | 0.000 |
| 32 | 0.83 | 0.17 | 0.000 | 0.000 | 0.000 |
| 33 | 0.82 | 0.17 | 0.000 | 0.014 | 0.014 |
| 34 | 0.82 | 0.16 | 0.000 | 0.017 | 0.017 |
| 35 | 0.83 | 0.15 | 0.000 | 0.021 | 0.021 |
| 36 | 0.83 | 0.14 | 0.000 | 0.024 | 0.024 |
| 37 | 0.82 | 0.16 | 0.000 | 0.019 | 0.019 |
| 38 | 0.83 | 0.14 | 0.000 | 0.025 | 0.025 |

Appendix Table A.9. Sockeye catch by stock groups from District 106 for 1987 for the drift gill net fishery.

| Week | Alaska | Canada | Tahltan | Non-Tahltan | Stikine (Tahltan+ Non-Tahltan) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 4,627 | 322 | 186 | 14 | 200 | 5,149 |
| 27 | 8,974 | 1,354 | 104 | 0 | 104 | 10,432 |
| 28 | 14,141 | 5,767 | 780 | 57 | 837 | 20,745 |
| 29 | 18,850 | 2,664 | 192 | 580 | 772 | 22,286 |
| 30 | 22,152 | 2,190 | 114 | 215 | 329 | 24,671 |
| 31 | 19,269 | 3,729 | 0 | 0 | 0 | 22,998 |
| 32 | 19,070 | 3,958 | 0 | 0 | 0 | 23,028 |
| 33 | 5,514 | 1,152 | 0 | 94 | 94 | 6,760 |
| 34 |  | --no | fishing- |  |  |  |
| 35 | 216 | 40 | 0 | 5 | 5 | 261 |
| 36 | 68 | 12 | 0 | 2 | 2 | 82 |
| 37 | 5 | 1 | 0 | 0 | 0 | 6 |
| 38 | 8 | 1 | 0 | 0 | 0 | 9 |
| Total | 112,893 | 21,190 | 1,376 | 968 | 2,344 | 136,427 |

Appendix Table A.10. District 108 weekly catch and effort data, 1987, for the drift gill net fishery (excluding Ohmer Creek terminal hatchery area).

| Start <br> Week Date |  | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 26 | 6/21 | 32 | 189 | 6 | 4 | 15 | 7 | 2 |
| 27 | 6/28 | 13 | 245 | 3 | 84 | 46 | 5 | 2 |
| 28 | 7/05 | 93 | 759 | 7 | 348 | 39 | 10 | 2 |
| 29 | 7/12 | 6 | 423 | 4 | 2,889 | 603 | 5 | 2 |
| 30 | 7/19 |  |  |  |  |  |  | 0 |
| 31 | 7/26 |  |  |  |  |  |  | 0 |
| 32 | 8/02 |  |  |  |  |  |  | 0 |
| 33 | 8/09 |  |  |  |  |  |  | 0 |
| 34 | 8/16 |  |  |  |  |  |  | 0 |
| 35 | 8/23 | 0 | 2 | 49 | 2 | 18 | 1 | 1 |
| 36 | 8/30 | 1 | 1 | 218 | 3 | 18 | 4 | 1 |
| 37 | 9/06 | 3 | 1 | 239 | 0 | 11 | 4 | 1 |
| 38 | 9/13 | 1 | 0 | 489 | 1 | 199 | 9 | 2 |
| Total |  | 149 | 1,620 | 1,015 | 3,331 | 949 |  | 13 |
| Total effort in boat-days |  |  |  |  |  |  | 81 |  |

Data from Run Time 10-13-88.

Appendix Table A.11. Stock proportions and numbers of sockeye salmon in catch from District 108 for 1987 for the drift gill net fishery. Stock proportions are determined from scale pattern analysis using averages from 1985 and 1986 commercial and test fish data. The ratio of Tahltan to Non-Tahltan Stikine stocks could not be determined except for week 29 when Tahltan represented 50.8\% of the Stikine sockeye salmon. For purposed of run reconstruction a 1:1 ratio was assumed for other weeks.

|  | Proportions |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Week | Alaskan | Canadian | Stikine | Stikine Sockeye |
| 26 | 0.15 | 0 | 0.85 | 160 |
| 27 | 0.11 | 0 | 0.89 | 219 |
| 28 | 0.10 | 0 | 0.90 | 684 |
| 29 | 0.17 | 0 | 0.83 | 351 |
| $35-37$ | 0.23 | 0.01 | 0.76 | 3 |
| Total |  |  |  | 1,417 |

Appendix Table A.12. Canadian lower Stikine River commercial fishery weekly catch and effort data, 1987.


Appendix Table A.13. Proportions, catch, and catch-per-unit-effort (CPUE) by stock, based on scale pattern analysis, for the sockeye catch from the Canadian lower Stikine River commercial fishery, 1987.

|  | Proportions Tahltan |  | Proportion <br> Non-Tahltan <br> Week | Egg Diam. | SPA |
| ---: | :---: | :---: | :---: | :---: | :---: |
|  | SPA | Catch |  |  |  |
| 27 | 0.84 | 0.74 | 0.26 | Tahltan | Non-Tahltan |
| 28 | 0.88 | 0.88 | 0.12 | 133 | 46 |
| 29 | 0.59 | 0.66 | 0.34 | 148 | 21 |
| 30 | 0.20 | 0.24 | 0.76 | 615 | 311 |
| 31 | 0.00 | 0.11 | 0.89 | 264 | 820 |
| 32 | 0.05 | 0.05 | 0.95 | 50 | 391 |
| 33 | 0.09 | 0.04 | 0.96 | 125 | 2,327 |
| 34 | 0.00 | 0.07 | 0.93 | 22 | 527 |
| 35 | 0.07 | 0.08 | 0.92 | 16 | 232 |
| 36 |  | 0.08 | 0.92 | 6 | 70 |
| 37 |  | 0.08 | 0.92 | 0 | 0 |
| 38 |  | 0.08 | 0.92 | 1 | 7 |
| 39 |  | 0.08 | 0.92 | 0 | 6 |
| Total |  |  |  | 0 | 0 |

Appendix Table A.14. Canadian upper Stikine River commercial fishery weekly catch and effort data, 1987. Ninety percent of the sockeye salmon are assumed to be of Tahltan origin.

|  |  |  |  | Catch |  |  |  | Eff |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Jack | nook <br> Adul | Sockeye | Coho | Pink | Chum | Boats | Days |
| 27 | 6/28 | 0 | 25 | 1 | 0 | 0 | 0 | 2 | 1 |
| 28 | 7/05 | 0 | 21 | 0 | 0 | 0 | 0 | 2 | 1 |
| 29 | 7/12 | 19 | 24 | 31 | 0 | 0 | 0 | 2 | 1 |
| 30 | 7/19 | 0 | 14 | 209 | 0 | 0 | 0 | 4 | 1 |
| 31 | 7/26 | 0 | 20 | 99 | 0 | 0 | 0 | 4 | 1 |
| 32 | 8/02 | 0 | 1 | 137 | 0 | 0 | 19 | 2 | 1 |
| 33 | 8/09 | 0 | 4 | 21 | 0 | 0 | 0 | 4 | 1 |
| Total |  | 19 | 109 | 498 | 0 | 0 | 19 | 7 |  |
| Total effort in boat-days |  |  |  |  |  |  |  | 20 |  |

Appendix Table A.15. Telegraph Creek food fishery weekly catch and effort data, 1987. Ninety percent of the sockeye salmon are assumed to be of Tahltan origin.

| Start <br> Week Date |  | Catch |  |  |  |  |  | Effort |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Jacks | inook Adults | Sockeye | Coho | Pink | Chum | Days |
| 23 | 5/31 | 0 | 4 | 0 | 0 | 0 | 0 | 7 |
| 24 | 6/07 | 2 | 27 | 0 | 0 | 0 | 0 | 7 |
| 25 | 6/14 | 24 | 186 | 3 | 0 | 0 | 0 | 7 |
| 26 | 6/21 | 18 | 91 | 2 | 0 | 0 | 0 | 7 |
| 27 | 6/28 | 0 | 44 | 0 | 0 | 0 | 0 | 7 |
| 28 | 7/05 | 60 | 252 | 56 | 0 | 0 | 0 | 7 |
| 29 | 7/12 | 51 | 300 | 638 | 0 | 0 | 0 | 7 |
| 30 | 7/19 | 6 | 164 | 969 | 0 | 0 | 0 | 7 |
| 31 | 7/26 | 10 | 66 | 586 | 0 | 0 | 0 | 7 |
| 32 | 8/02 | 6 | 40 | 636 | 2 | 0 | 8 | 7 |
| 33 | 8/09 | 6 | 9 | 89 | 1 | 0 | 0 | 7 |
| Total |  | 183 | 1,183 | 2,979 | 3 | 0 | 8 |  |

Appendix Table A.16. Lower Stikine River test fishery weekly catch and effort datar 1987.

| Week | Start Date | Catch |  |  |  |  | $\begin{aligned} & \frac{\text { Effort }}{\text { \# Drifts }} \\ & \text { or Sets } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Sockeye | Coho | Pink | Chum |  |
| DRIFT GILL NET |  |  |  |  |  |  |  |
| 26 | 6/21 | 46 | 8 | 0 | 0 | 0 | 60 |
| 27 | 6/28 | 12 | 5 | 0 | 0 | 0 | 60 |
| 28 | 7/05 | 37 | 56 | 0 | 0 | 0 | 60 |
| 29 | 7/12 | 25 | 71 | 0 | 1 | 6 | 60 |
| 30 | 7/19 | 5 | 100 | 0 | 44 | 7 | 60 |
| 31 | 7/26 | 1 | 69 | 1 | 13 | 13 | 60 |
| 32 | 8/02 | 1 | 38 | 2 | 22 | 8 | 50 |
| 33 | 8/09 | 1 | 31 | 8 | 22 | 8 | 60 |
| 34 | 8/16 | 0 | 6 | 25 | 1 | 6 | 60 |
| 35 | 8/23 | 0 | 1 | 30 | 7 | 8 | 60 |
| 36 | 8/30 | 0 | 0 | 36 | 1 | 3 | 50 |
| 37 | 9/06 | 0 | 0 | 19 | 0 | 2 | 40 |
| 38 | 9/13 | 0 | 0 | 25 | 0 | 0 | 50 |
| 39 | 9/20 | 0 | 0 | 14 | 0 | 0 | 40 |
| 40 | 9/27 | 0 | 0 | 1 | 0 | 0 | 40 |
| 41 | 10/04 | 0 | 0 | 1 | 0 | 0 | 35 |
| Total |  | 128 | 385 | 162 | 111 | 61 | 845 |
| SET GILL NET |  |  |  |  |  |  |  |
| 26 | 6/21 | 9 | 23 | $\bigcirc$ | 0 | 0 | 4 |
| 27 | 6/28 | 14 | 24 | 0 | 0 | 0 | 9 |
| 28 | 7/05 | 15 | 153 | $\bigcirc$ | 5 | 2 | 10 |
| 29 | 7/12 | 11 | 218 | $\bigcirc$ | 18 | 4 | 10 |
| 30 | 7/19 | 7 | 193 | $\bigcirc$ | 151 | 13 | 10 |
| 31 | 7/26 | 1 | 214 | 2 | 187 | 40 | 10 |
| 32 | 8/02 | 0 | 231 | 17 | 123 | 43 | 8 |
| 33 | 8/09 | 3 | 132 | 83 | 58 | 48 | 10 |
| 34 | 8/16 | 1 | 78 | 124 | 30 | 26 | 10 |
| 35 | 8/23 | 0 | 12 | 100 | 12 | 4 | 10 |
| 36 | 8/30 | 0 | 4 | 186 | 3 | 8 | 10 |
| 37 | 9/06 | 0 | 1 | 108 | 0 | 5 | 8 |
| Total |  | 61 | 1,283 | 620 | 587 | 193 | 109 |

Appendix Table A.17. Proportions of Tahltan stock by week found in the lower Stikine River test fishery catch as determined by scale pattern analysis (SPA), genetic-parasitic-age analysis (GPA), and egg diameter analysis (EGG). SPA and GPA analyses were conducted on the same sample of fish. An average proportion based on SPA and GPA is then given for both Tahltan and Non-Tahltan stocks.

| Week | \#Females <br> EGG Sampled |  | Proportion |  | Sample Size | Average Prop. <br> Tahltan Non-Tahltan |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | SPA | GPA |  |  |  |
| 26 | 0.88 | 17 | 0.87 | 0.64 | 27 | 0.75 | 0.25 |
| 27 | 0.71 | 21 | 0.87 | 0.54 | 29 | 0.70 | 0.30 |
| 28 | 0.76 | 109 | 0.78 | 0.68 | 203 | 0.73 | 0.27 |
| 29 | 0.46 | 162 | 0.58 | 0.44 | 290 | 0.51 | 0.49 |
| 30 | 0.19 | 156 | 0.28 | 0.22 | 269 | 0.25 | 0.75 |
| 31 | 0.06 | 159 | 0.09 | 0.03 | 280 | 0.06 | 0.94 |
| 32 | 0.04 | 157 | 0.09 | 0.06 | 263 | 0.08 | 0.92 |
| 33 | 0.01 | 97 | 0.006 | 0.010 | 161 | 0.008 | 0.99 |
| 34 | 0.60 | 35 |  |  |  |  |  |
| 35 | 0.11 | 9 |  |  |  |  |  |
| 34-41 |  |  | 0.000 | 0.010 | 81 | 0.005 | 0.995 |

Appendix Table A.18. Proportions, catch, and catch-per-unit-effort (CPUE) by stock for the sockeye catch from the lower Stikine river test fishery, 1987. Run timing is determined from CPUE.

| Week | Proportions |  | Catch |  | CPUE |  |  | Tahltan Run Timing |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tahltan | NonTahltan | $\begin{gathered} \text { Tahl } \\ \text { tan } \end{gathered}$ | $\begin{gathered} \text { Non- } \\ \text { Tahltan } \end{gathered}$ | Tahltan | Non- <br> Tahltan | Stikine |  |
| DRIFT GILL NET |  |  |  |  |  |  |  |  |
| 26 | 0.75 | 0.25 | 6 | 2 | 0.10 | 0.03 | 0.13 | 0.015 |
| 27 | 0.70 | 0.30 | 4 | 1 | 0.06 | 0.02 | 0.08 | 0.009 |
| 28 | 0.73 | 0.27 | 41 | 15 | 0.68 | 0.25 | 0.93 | 0.104 |
| 29 | 0.51 | 0.49 | 36 | 35 | 0.60 | 0.58 | 1.18 | 0.092 |
| 30 | 0.25 | 0.75 | 25 | 75 | 0.42 | 1.25 | 1.67 | 0.064 |
| 31 | 0.06 | 0.94 | 4 | 65 | 0.07 | 1.08 | 1.15 | 0.010 |
| 32 | 0.08 | 0.92 | 3 | 35 | 0.06 | 0.70 | 0.76 | 0.009 |
| 33 | 0.008 | 0.992 | 0 | 31 | 0.00 | 0.51 | 0.52 | 0.001 |
| 34 | 0.005 | 0.995 | 0 | 6 | 0.00 | 0.10 | 0.10 | 0.000 |
| 35 | 0.005 | 0.995 | 0 | 1 | 0.00 | 0.02 | 0.02 | 0.000 |
| 36 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| 37 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| 38 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| 39 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| 40 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| 41 | 0.005 | 0.995 | 0 | 0 | 0.00 | 0.00 | 0.00 | 0.000 |
| Total |  |  | 119 | 266 | 1.99 | 4.56 | 6.54 | 0.304 |
| SET GILL NET |  |  |  |  |  |  |  |  |
| 26 | 0.75 | 0.25 | 17 | 6 | 4.33 | 1.42 | 5.75 |  |
| 27 | 0.70 | 0.30 | 17 | 7 | 1.88 | 0.79 | 2.67 |  |
| 28 | 0.73 | 0.27 | 111 | 42 | 11.13 | 4.17 | 15.30 |  |
| 29 | 0.51 | 0.49 | 111 | 107 | 11.08 | 10.72 | 21.80 |  |
| 30 | 0.25 | 0.75 | 48 | 145 | 4.82 | 14.48 | 19.30 |  |
| 31 | 0.06 | 0.94 | 13 | 201 | 1.27 | 20.13 | 21.40 |  |
| 32 | 0.08 | 0.92 | 18 | 213 | 2.21 | 26.67 | 28.88 |  |
| 33 | 0.008 | 0.992 | 1 | 131 | 0.11 | 13.09 | 13.20 |  |
| 34 | 0.005 | 0.995 | 0 | 78 | 0.04 | 7.76 | 7.80 |  |
| 35 | 0.005 | 0.995 | 0 | 12 | 0.01 | 1.19 | 1.20 |  |
| 36 | 0.005 | 0.995 | 0 | 4 | 0.00 | 0.40 | 0.40 |  |
| 37 | 0.005 | 0.995 | 0 | 1 | 0.00 | 0.12 | 0.13 |  |
| Total |  |  | 336 | 947 | 36.87 | 100.95 | 137.82 |  |

Appendix Table A.19. District 106 test fishery weekly catch and effort data, 1987.

|  |  |  |  |  |  |  | Effort |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Chinook | Sockeye | Coho | Pink | Chum | Boats Hours |
| 25 | 6/14 | 3 | 102 | 7 | 8 | 2 | 216.95 |
| 26 | $6 / 21$ | 6 | 142 | 4 | 63 | 11 | 217.61 |
| 27 | 6/28 | 4 | 440 | 20 | 370 | 33 | $2 \quad 17.88$ |
| 28 | 7/05 | 4 | 521 | 48 | 1,461 | 29 | $4 \quad 93.24$ |
| 29 | 7/12 | 4 | 487 | 94 | 700 | 91 | $4 \quad 97.78$ |
| 30 | 7/19 | 2 | 485 | 66 | 617 | 115 | 4100.22 |
| 31 | 7/26 | 0 | 457 | 82 | 826 | 144 | $4 \quad 95.76$ |
| 32 | 8/02 |  |  |  |  |  | -no fishing- |
| 33 | 8/09 |  |  |  |  |  | -no fishing- |
| 34 | 8/16 | 0 | 20 | 121 | 11 | 75 | 288.35 |
| 35 | 8/23 | 0 | 5 | 264 | 12 | 138 | 2156.94 |
| 36 | 8/30 | 0 | 0 | 92 | 3 | 91 | 283.41 |
| Total |  | 23 | 2,659 | 798 | 4,071 | 729 | 768.14 |

Appendix Table A.20. District 108 test fishery weekly catch and effort data, 1987.

|  | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week Date | Chinook | Sockeye | Coho | Pink | Chum | Boats | Hours |
| $25 \quad 6 / 14$ | 7 | 8 | 0 | 0 | 0 | 1 | 11.80 |
| 26 6/21 | 13 | 18 | 0 | 0 | 4 | 1 | 11.25 |
| 27 6/28 | 5 | 32 | 0 | 33 | 38 | 1 | 11.25 |
| 28 7/05 | 1 | 79 | 0 | 227 | 42 | 1 | 11.07 |
| 29 7/12 | 2 | 79 | 0 | 706 | 105 | 1 | 11.25 |
| $30 \quad 7 / 19$ | 1 | 40 | 3 | 665 | 210 | 1 | 11.25 |
| 31 7/26 | 1 | 34 | 10 | 326 | 89 | 1 | 9.00 |
| Total | 30 | 290 | 13 | 1,957 | 488 |  | 76.87 |

Appendix Table A.21. Stikine River sockeye catch by stock from the District 106 (Sumner Strait) and District 108 test fisheries, 1987. Stock proportions from the respective commercial fisheries were used.

| Week | District 106 |  |  | District 108 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Tahltan | Non-Tahltan | Stikine | Tahltan | Non-Tahltan | Stikine |
| 25 | 1 | 0 | 1 | 3 | 3 | 6 |
| 26 | 2 | 0 | 2 | 8 | 8 | 15 |
| 27 | 6 | 0 | 6 | 14 | 14 | 29 |
| 28 | 27 | 1 | 28 | 36 | 36 | 71 |
| 29 | 4 | 0 | 4 | 33 | 32 | 46 |
| 30 | 4 | 7 | 11 | 15 | 15 | 30 |
| 31 | 0 | 0 | 0 | 15 | 15 | 30 |
| 32 | 0 | 0 | 0 |  |  |  |
| 33 | 0 | 0 | 0 |  |  |  |
| 34 | 0 | 0 | 0 |  |  |  |
| 35 | 0 | 0 | 0 |  |  |  |
| 36 | 0 | 0 | 0 |  |  |  |
| Total | 44 | 9 | 53 | 124 | 123 | 247 |

Appendix Table A.22. Mouth of the Stikine River test fishery weekly catch and effort data, 1987.

| Start <br> Week Date | Catch |  |  |  |  | Effort |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum | Hours |
| 27 6/28 | 2 | 2 | 0 | 0 | 0 | 105 |
| 28 7/05 | 2 | 6 | 0 | 8 | 1 | 145 |
| 29 7/12 | 5 | 24 | 0 | 101 | 11 | 170.5 |
| $30 \quad 7 / 19$ | 2 | 5 | 0 | 100 | 4 | 154.5 |
| 31 7/26 | 0 | 6 | 0 | 113 | 13 | 129.75 |
| 32 8/02 | 0 | 4 | 0 | 89 | 20 | 73 |
| Total | 11 | 47 | 0 | 411 | 49 | 777.75 |

Appendix Table A.23. Daily weir counts of sockeye salmon at Tahltan Lake, 1987.

| Date | Daily Count | -Cumulative- |  | Date | Daily Count | -Cumu Count | Eive- |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07/21 | 1 | 1 | 0.0 | 08/09 | 423 | 5502 | 79.1 |
| 22 | 0 | 1 | 0.0 | 10 | 217 | 5719 | 82.2 |
| 23 | 6 | 7 | 0.1 | 11 | 208 | 5927 | 85.2 |
| 24 | 16 | 23 | 0.3 | 12 | 185 | 6112 | 87.8 |
| 25 | 714 | 737 | 10.6 | 13 | 177 | 6289 | 90.4 |
| 26 | 684 | 1421 | 20.4 | 14 | 132 | 6421 | 92.3 |
| 27 | 281 | 1702 | 24.5 | 15 | 177 | 6598 | 94.8 |
| 28 | 105 | 1807 | 26.0 | 16 | 76 | 6674 | 95.9 |
| 29 | 17 | 1824 | 26.2 | 17 | 25 | 6699 | 96.3 |
| 30 | 62 | 1886 | 27.1 | 18 | 45 | 6744 | 96.9 |
| 31 | 416 | 2302 | 33.1 | 19 | 18 | 6762 | 97.2 |
| 08/01 | 485 | 2787 | 40.1 | 20 | 76 | 6838 | 98.3 |
| 02 | 510 | 3297 | 47.4 | 21 | 50 | 6888 | 99.0 |
| 03 | 170 | 3467 | 49.8 | 22 | 12 | 6900 | 99.2 |
| 04 | 95 | 3562 | 51.2 | 23 | 24 | 6924 | 99.5 |
| 05 | 324 | 3886 | 55.8 | 24 | 11 | 6935 | 99.7 |
| 06 | 392 | 4278 | 61.5 | 25 | 10 | 6945 | 99.8 |
| 07 | 298 | 4576 | 65.8 | 26 | 5 | 6950 | 99.9 |
| 08 | 503 | 5079 | 73.0 | 27 | 8 | 6958 | 100.0 |

Appendix Table A.24. Daily weir counts of chinook salmon at Little Tahltan River, 1987.

| Date | Adult Chinook |  |  | Jacks |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Daily Count | --Curnu <br> Count | lative-- <br> Percent | Daily Count | --Cumu Count | ative-- <br> Percent |
| 28-Jun |  | --- | -weir | alled- |  | ------ |
| 29-Jun | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 30-Jun | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 01-Jul | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 02-Jul | 0 | 0 | 0.00 | 0 | 0 | 0.00 |
| 03-Jul | 0 | 0 | 0.00 | 4 | 4 | 1.10 |
| 04-Jul | 28 | 28 | 0.59 | 4 | 8 | 2.20 |
| 05-Jul | 34 | 62 | 1.30 | 4 | 12 | 3.30 |
| 06-Jul | 1 | 63 | 1.32 | 0 | 12 | 3.30 |
| 07-Jul | 7 | 70 | 1.46 | 0 | 12 | 3.30 |
| 08-Ju1 | 39 | 109 | 2.28 | 2 | 14 | 3.85 |
| 09-Jul | 24 | 133 | 2.78 | 6 | 20 | 5.49 |
| 10-Jul | 8 | 141 | 2.95 | 2 | 22 | 6.04 |
| 11-Jul | 0 | 141 | 2.95 | 0 | 22 | 6.04 |
| 12-Jul | 8 | 149 | 3.12 | 0 | 22 | 6.04 |
| 13-Jul | 2 | 151 | 3.16 | 2 | 24 | 6.59 |
| 14-Jul | 4 | 155 | 3.24 | 0 | 24 | 6.59 |
| 15-Jul | 44 | 199 | 4.16 | 0 | 24 | 6.59 |
| 16-Jul | 74 | 273 | 5.71 | 1 | 25 | 6.87 |
| 17-Jul | 47 | 320 | 6.69 | 2 | 27 | 7.42 |
| 18-Jul | 236 | 556 | 11.63 | 10 | 37 | 10.16 |
| 19-Jul | 468 | 1024 | 21.42 | 18 | 55 | 15.11 |
| 20-Jul | 509 | 1533 | 32.06 | 40 | 95 | 26.10 |
| 21-Ju1 | 137 | 1670 | 34.93 | 4 | 99 | 27.20 |
| 22-Jul | 294 | 1964 | 41.08 | 11 | 110 | 30.22 |
| 23-Jul | 362 | 2326 | 48.65 | 11 | 121 | 33.24 |
| 24-Jul | 192 | 2518 | 52.67 | 23 | 144 | 39.56 |
| 25-Jul | 196 | 2714 | 56.77 | 25 | 169 | 46.43 |
| 26-Jul | 289 | 3003 | 62.81 | 21 | 190 | 52.20 |
| 27-Jul | 137 | 3140 | 65.68 | 14 | 204 | 56.04 |
| 28-Jul | 82 | 3222 | 67.39 | 10 | 214 | 58.79 |
| 29-Jul | 233 | 3455 | 72.27 | 22 | 236 | 64.84 |
| 30-Jul | 236 | 3691 | 77.20 | 19 | 255 | 70.05 |
| 31-Ju1 | 212 | 3903 | 81.64 | 7 | 262 | 71.98 |
| 01-Aug | 106 | 4009 | 83.85 | 8 | 270 | 74.18 |
| 02-Aug | 296 | 4305 | 90.04 | 14 | 284 | 78.02 |
| 03-Aug | 151 | 4456 | 93.20 | 24 | 308 | 84.62 |
| 04-Aug | 51 | 4507 | 94.27 | 17 | 325 | 89.29 |
| 05-Aug | 5 | 4512 | 94.37 | 2 | 327 | 89.84 |
| 06-Aug | 79 | 4591 | 96.03 | 6 | 333 | 91.48 |
| 07-Aug | 53 | 4644 | 97.13 | 5 | 338 | 92.86 |
| 08-Aug | 3 | 4647 | 97.20 | 1 | 339 | 93.13 |
| 09-Aug | 47 | 4694 | 98.18 | 14 | 353 | 96.98 |
| 10-Aug | 18 | 4712 | 98.56 | 4 | 357 | 98.08 |
| 11-Aug | 16 | 4728 | 98.89 | 2 | 359 | 98.63 |
| 12-Aug | 9 | 4737 | 99.08 | 0 | 359 | 98.63 |
| 13-Aug | 7 | 4744 | 99.23 | 1 | 360 | 98.90 |
| 14-Aug | 25 | 4769 | 99.75 | 2 | 362 | 99.45 |
| 15-Aug | 8 | 4777 | 99.92 | 2 | 364 | 100.00 |
| 16-Aug | 4 | 4781 | 100.00 | 0 | 364 | 100.00 |
| 17-Aug | 0 | 4781 | 100.00 | 0 | 364 | 100.00 |
| 18-Aug | 0 | 4781 | 100.00 | 0 | 364 | 100.00 |
| 19-Aug | 0 | 4781 | 100.00 | 0 | 364 | 100.00 |

Appendix Table A.25. Daily sockeye smolt counts, cumulative counts, and percent passage at Tahltan Lake, 1987.

| Date | Count | Cumul. | Percent | Date | Count | Cumul | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5/15 | 1 | 1 | 0.00 | $6 / 16$ | 238 | 806542 | 99.52 |
| 16 | 0 | 1 | 0.00 | 17 | 591 | 807133 | 99.59 |
| 17 | 1 | 2 | 0.00 | 18 | 32 | 807165 | 99.60 |
| 18 | 178 | 180 | 0.02 | 19 | 328 | 807493 | 99.64 |
| 19 | 55 | 235 | 0.03 | 20 | 81 | 807574 | 99.65 |
| 20 | 12185 | 12420 | 1.53 | 21 | 46 | 807620 | 99.65 |
| 21 | 11917 | 24337 | 3.00 | 22 | 119 | 807739 | 99.67 |
| 22 | 267099 | 291436 | 35.96 | 23 | 122 | 807861 | 99.68 |
| 23 | 307690 | 599126 | 73.93 | 24 | 72 | 807933 | 99.69 |
| 24 | 135868 | 734994 | 90.69 | 25 | 11 | 807944 | 99.69 |
| 25 | 13989 | 748983 | 92.42 | 26 | 29 | 807973 | 99.70 |
| 26 | 13577 | 762560 | 94.09 | 27 | 55 | 808028 | 99.70 |
| 27 | 3719 | 766279 | 94.55 | 28 | 28 | 808056 | 99.71 |
| 28 | 2463 | 768742 | 94.86 | 29 | 35 | 808091 | 99.71 |
| 29 | 12042 | 780784 | 96.34 | 30 | 709 | 808800 | 99.80 |
| 30 | 1847 | 782631 | 96.57 | $7 / 01$ | 651 | 809451 | 99.88 |
| 31 | 396 | 783027 | 96.62 | 2 | 124 | 809575 | 99.89 |
| 6/01 | 413 | 783440 | 96.67 | 3 | 204 | 809779 | 99.92 |
| 2 | 5311 | 788751 | 97.32 | 4 | 144 | 809923 | 99.94 |
| 3 | 1942 | 790693 | 97.56 | 5 | 55 | 809978 | 99.94 |
| 4 | 1510 | 792203 | 97.75 | 6 | 45 | 810023 | 99.95 |
| 5 | 487 | 792690 | 97.81 | 7 | 61 | 810084 | 99.96 |
| 6 | 1390 | 794080 | 97.98 | 8 | 35 | 810119 | 99.96 |
| 7 | 4404 | 798484 | 98.53 | 9 | 12 | 810131 | 99.96 |
| 8 | 933 | 799417 | 98.64 | 10 | 129 | 810260 | 99.98 |
| 9 | 489 | 799906 | 98.70 | 11 | 50 | 810310 | 99.98 |
| 10 | 1113 | 801019 | 98.84 | 12 | 43 | 810353 | 99.99 |
| 11 | 235 | 801254 | 98.87 | 13 | 21 | 810374 | 99.99 |
| 12 | 549 | 801803 | 98.94 | 14 | 6 | 810380 | 99.99 |
| 13 | 619 | 802422 | 99.01 | 15 | 17 | 810397 | 100.00 |
| 14 | 2906 | 805328 | 99.37 | 16 | 35 | 810432 | 100.00 |
| 15 | 976 | 806304 | 99.49 |  |  |  |  |

## APPENDIX B. Stikine River historical annual data

Appendix Table B.l. Subdistrict $106-41$ and -42 , Sumner Strait, annual catch and effort data, 1964-1987, for the drift gill net fishery.

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 316 | 52,943 | 27,338 | 183,402 | 22,913 | 2,344 | 49 |
| 1965 | 679 | 58,736 | 30,570 | 162,271 | 15,763 | 1,658 | 50.75 |
| 1966 | 690 | 65,721 | 30,792 | 96,287 | 24,235 | 2,080 | 74.25 |
| 1967 | 668 | 60,148 | 10,573 | 52,284 | 19,626 | 1,463 | 27 |
| 1968 | 1,010 | 50,212 | 46,111 | 82,012 | 39,001 | 2,997 | 52 |
| 1969 | 747 | 46,282 | 6,557 | 92,102 | 6,395 | 1,147 | 31 |
| 1970 | 420 | 26,812 | 15,153 | 29,102 | 18,092 | 905 | 41 |
| 1971 | 671 | 33,991 | 24,727 | 283,739 | 19,329 | 1,619 | 50 |
| 1972 | 1,747 | 74,745 | 60,827 | 40,644 | 46,511 | 2,152 | 41 |
| 1973 | 1,540 | 55,254 | 24,921 | 160,297 | 62,486 | 2,253 | 26 |
| 1974 | 1,342 | 46,760 | 28,889 | 57,296 | 38,045 | 1,579 | 28 |
| 1975 | 467 | 19,319 | 4,650 | 29,340 | 7,762 | 515 | 17 |
| 1976 | 237 | 9,319 | 10,367 | 20,251 | 2,301 | 366 | 19 |
| 1977 | 202 | 47,408 | 1,819 | 51,038 | 4,240 | 447 | 17 |
| 1978 | 274 | 1,422 | 26,762 | 9,546 | 3,142 | 389 | 26.5 |
| 1979 | 458 | 34,807 | 12,087 | 176,395 | 16,816 | 952 | 25 |
| 1980 | 205 | 48,430 | 10,826 | 16,966 | 15,162 | 596 | 16 |
| 1981 | 598 | 132,359 | 13,158 | 218,359 | 25,994 | 1,732 | 25 |
| 1982 | 648 | 121,220 | 21,387 | 10,343 | 11,896 | 1,083 | 22 |
| 1983 | 268 | 28,153 | 41,196 | 74,347 | 13,001 | 875 | 32 |
| 1984 | 136 | 27,372 | 19,124 | 99,807 | 28,461 | 587 | 32 |
| 1985 | 549 | 172,088 | 50,655 | 319,379 | 45,566 | 1,726 | 38 |
| 1986 | 421 | 85,247 | 104,328 | 105,347 | 48,471 | 1,896 | 32 |
| AVERAGES |  |  |  |  |  |  |  |
| 1964-86 | 621 | 56,467 | 27,079 | 103,068 | 23,270 | 1,364 | 34 |
| 1980-86 | 404 | 87,838 | 37,239 | 120,650 | 26,936 | 1,214 | 28 |
| 1987 | 441 | 79,165 | 17,776 | 117,059 | 25,877 | 978 | 20 |

Data from Run Time 10-13-88.

Appendix Table B.2. Stock proportions and catch of sockeye salmon from Subdistrict 106-41 and -42, Sumner Strait, 1984-1987, for the drift gill net fishery.

| Year | Alaska | Canada | Tahltan | Non-Tahltan | Stikine |
| :---: | ---: | ---: | ---: | ---: | ---: |
| PROPORTIONS |  |  |  |  |  |
| 1985 | 0.48 | 0.40 | 0.11 | 0.01 | 0.12 |
| 1986 | 0.66 | 0.31 | 0.02 | 0.01 | 0.03 |
| 1987 | 0.82 | 0.17 | 0.01 | 0.00 | 0.02 |
| CATCH |  |  |  |  |  |
| 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 |

Appendix Table B.3. Subdistrict 106-30, Clarence Strait, annual catch and effort data, 1964-1987, for the drift gill net fishery.

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 1,766 | 23,598 | 37,316 | 259,684 | 21,305 | 3,039 | 49 |
| 1965 | 1,123 | 29,013 | 45,158 | 463,577 | 11,895 | 2,849 | 50.75 |
| 1966 | 975 | 24,126 | 32,031 | 304,645 | 16,521 | 2,898 | 74.25 |
| 1967 | 650 | 26,237 | 7,097 | 39,325 | 6,744 | 1,048 | 27 |
| 1968 | 306 | 14,459 | 21,040 | 87,095 | 22,365 | 1,968 | 52 |
| 1969 | 289 | 24,061 | 4,191 | 104,998 | 4,511 | 1,026 | 31 |
| 1970 | 365 | 15,966 | 20,317 | 65,790 | 14,139 | 1,025 | 41 |
| 1971 | 665 | 19,211 | 23,358 | 244,236 | 18,351 | 1,517 | 50 |
| 1972 | 826 | 26,593 | 32,600 | 48,823 | 25,871 | 1,276 | 41 |
| 1973 | 391 | 16,741 | 13,526 | 143,324 | 25,243 | 1,303 | 26 |
| 1974 | 696 | 10,482 | 16,825 | 47,041 | 12,258 | 712 | 28 |
| 1975 | 2,120 | 12,732 | 26,312 | 173,675 | 16,206 | 1,159 | 8.5 |
| 1976 | 147 | 6,162 | 8,759 | 119,188 | 4,567 | 527 | 21 |
| 1977 | 469 | 19,615 | 6,582 | 368,069 | 9,060 | 940 | 21 |
| 1978 | 2,408 | 40,152 | 28,816 | 215,169 | 13,403 | 1,148 | 16 |
| 1979 | 2,262 | 31,566 | 15,996 | 471,817 | 18,691 | 1,848 | 25 |
| 1980 | 375 | 58,988 | 5,754 | 28,594 | 11,107 | 749 | 25 |
| 1981 | 967 | 50,546 | 9,453 | 216,909 | 8,577 | 1,321 | 26 |
| 1982 | 1,000 | 72,140 | 10,284 | 15,141 | 6,719 | 647 | 21 |
| 1983 | 299 | 20,789 | 21,234 | 133,820 | 7,143 | 589 | 37 |
| 1984 | 756 | 64,281 | 22,235 | 243,448 | 41,797 | 1,236 | 24 |
| 1985 | 1,141 | 92,899 | 40,565 | 265,567 | 24,095 | 1,372 | 36 |
| 1986 | 1,283 | 60,462 | 90,584 | 203,137 | 33,818 | 1,664 | 31 |
| AVERAGES |  |  |  |  |  |  |  |
| 1964-86 | 925 | 33,079 | 23,480 | 185,351 | 16,278 | 1,385 | 33 |
| 1980-86 | 832 | 60,015 | 28,587 | 158,088 | 19,037 | 1,083 | 29 |
| 1987 | 395 | 57,262 | 16,758 | 126,423 | 16,148 | 799 | 20 |

Data from Run Time 10-13-88.

Appendix Table B.4. Stock proportions and catch of sockeye salmon from Subdistrict 106-30, Clarence Strait, 1985-1987, for the drift gill net fishery.

| Year | Alaska | Canada | Tahltan | Non-Tahltan | Stikine |
| :---: | ---: | ---: | ---: | :---: | :---: |
| PROPORTIONS |  |  |  |  |  |
| 1985 | 0.48 | 0.45 | 0.06 | 0.01 | 0.07 |
| 1986 | 0.73 | 0.27 | 0.00 | 0.00 | 0.00 |
| 1987 | 0.84 | 0.14 | 0.00 | 0.01 | 0.02 |
| 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 |

Appendix Table B.5. District 106 annual catch and effort data, 1964-1987, for the drift gill net fishery (excluding Blind Slough terminal hatchery area).

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 2,082 | 76,541 | 64,654 | 443,086 | 44,218 | 5,383 | 49 |
| 1965 | 1,802 | 87,749 | 75,728 | 625,848 | 27,658 | 4,506 | 50.75 |
| 1966 | 1,665 | 89,847 | 62,823 | 400,932 | 40,756 | 4,978 | 74.25 |
| 1967 | 1,318 | 86,385 | 17,670 | 91,609 | 26,370 | 2,511 | 27 |
| 1968 | 1,316 | 64,671 | 67,151 | 169,107 | 61,366 | 4,964 | 52 |
| 1969 | 1,036 | 70,343 | 10,748 | 197,100 | 10,906 | 2,173 | 31 |
| 1970 | 785 | 42,778 | 35,470 | 94,892 | 32,231 | 1,930 | 41 |
| 1971 | 1,336 | 53,202 | 48,085 | 527,975 | 37,680 | 3,136 | 50 |
| 1972 | 2,573 | 101,338 | 93,427 | 89,467 | 72,382 | 3,428 | 41 |
| 1973 | 1,931 | 71,995 | 38,447 | 303,621 | 87,729 | 3,556 | 26 |
| 1974 | 2,038 | 57,242 | 45,714 | 104,337 | 50,303 | 2,291 | 28 |
| 1975 | 2,587 | 32,051 | 30,962 | 203,015 | 23,968 | 1,674 | 17 |
| 1976 | 384 | 15,481 | 19,126 | 139,439 | 6,868 | 893 | 21 |
| 1977 | 671 | 67,023 | 8,401 | 419,107 | 13,300 | 1,387 | 21 |
| 1978 | 2,682 | 41,574 | 55,578 | 224,715 | 16,545 | 1,537 | 26.5 |
| 1979 | 2,720 | 66,373 | 28,083 | 648,212 | 35,507 | 2,800 | 25 |
| 1980 | 580 | 107,418 | 16,580 | 45,560 | 26,269 | 1,345 | 25 |
| 1981 | 1,565 | 182,905 | 22,611 | 435,268 | 34,571 | 3,053 | 26 |
| 1982 | 1,648 | 193,360 | 31,671 | 25,484 | 18,615 | 1,730 | 22 |
| 1983 | 567 | 48,942 | 62,430 | 208,167 | 20,144 | 1,464 | 37 |
| 1984 | 892 | 91,653 | 41,359 | 343,255 | 70,258 | 1,823 | 32 |
| 1985 | 1,690 | 264,987 | 91,220 | 584,946 | 69,661 | 3,098 | 38 |
| 1986 | 1,704 | 145,709 | 194,912 | 308,484 | 82,289 | 3,560 | 32 |
| AVERAGES |  |  |  |  |  |  |  |
| 1964-86 | 1,547 | 89,546 | 50,559 | 288,419 | 39,548 | 2,749 | 34 |
| 1980-86 | 1,235 | 147,853 | 65,826 | 278,738 | 45,972 | 2,296 | 30 |
| 1987 | 836 | 136,427 | 34,534 | 243,482 | 42,025 | 1,777 | 20 |

Data from Run Time 10-13-88.

Appendix Table B.6. Stock proportions and catch of sockeye salmon from District 106, 1982-1987, for the drift gill net fishery.

| Year | Alaska | Canada | Tahltan | Non-Tahltan | Stikine |
| :---: | ---: | ---: | ---: | ---: | ---: |
| PROPORTIONS |  |  |  |  |  |
| 1982 | 0.49 | 0.32 |  |  | 0.19 |
| 1983 | 0.67 | 0.22 | 0.10 | 0.01 | 0.12 |
| 1984 | 0.66 | 0.27 | 0.03 | 0.04 | 0.07 |
| 1985 | 0.48 | 0.42 | 0.09 | 0.01 | 0.10 |
| 1986 | 0.59 | 0.39 | 0.02 | 0.01 | 0.02 |
| 1987 | 0.83 | 0.16 | 0.01 | 0.01 | 0.02 |
| CATCH |  |  |  |  |  |
| 1982 | 94,061 | 61,714 |  |  |  |
| 1983 | 32,670 | 10,611 | 5,030 | 632 | 5,662 |
| 1984 | 60,278 | 24,624 | 2,673 | 4,078 | 6,751 |
| 1985 | 127,201 | 110,720 | 24,097 | 2,969 | 27,066 |
| 1986 | 85,887 | 56,279 | 2,744 | 799 | 3,543 |
| 1987 | 112,893 | 21,190 | 1,376 | 968 | 2,344 |

Appendix Table B.7. District 108 annual catch and effort data, 1964-1987, for the drift gill net fishery (excluding Ohmer Creek terminal hatchery area).

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 2,911 | 20,299 | 29,388 | 114,555 | 10,771 | 3,416 | 62 |
| 1965 | 3,106 | 21,419 | 8,301 | 4,729 | 2,480 | 960 | 48 |
| 1966 | 4,516 | 36,710 | 16,493 | 61,908 | 17,730 | 1,841 | 62 |
| 1967 | 6,372 | 29,226 | 6,747 | 4,713 | 5,955 | 1,193 | 40 |
| 1968 | 4,604 | 14,594 | 36,407 | 91,028 | 14,537 | 3,114 | 61 |
| 1969 | 5,023 | 19,210 | 5,823 | 11,884 | 2,312 | 858 | 37 |
| 1970 | 3,207 | 15,120 | 18,403 | 20,523 | 12,305 | 1,180 | 41 |
| 1971 | 3,717 | 18,143 | 14,876 | 21,806 | 4,665 | 892 | 42 |
| 1972 | 9,332 | 51,734 | 38,520 | 17,153 | 17,363 | 1,922 | 49 |
| 1973 | 9,254 | 21,387 | 5,837 | 6,585 | 6,680 | 1,042 | 21 |
| 1974 | 8,199 | 2,428 | 16,021 | 4,188 | 2,107 | 550 | 16 |
| 1975 ${ }^{\text {a }}$ | 1,534 | 0 | 0 | 0 | 1 | n/a | 8 |
| 1976 | 1,123 | 18 | 6,056 | 722 | 124 | 130 | 10 |
| 1977 | 1,443 | 48,374 | 14,405 | 16,253 | 4,233 | 740 | 19 |
| 1978 | 531 | 56 | 32,650 | 1,157 | 1,001 | 608 | 12 |
| 1979 | 91 | 2,158 | 234 | 13,478 | 1,064 | 100 | 5 |
| 1980 | 631 | 14,053 | 2,946 | 7,224 | 6,910 | 327 | 22 |
| 1981 | 283 | 8,833 | 1,403 | 1,466 | 3,594 | 177 | 9 |
| 1982 | 1,033 | 6,886 | 19,971 | 16,988 | 741 | 508 | 21 |
| 1983 | 47 | 178 | 15,484 | 4,171 | 675 | 266 | 17 |
| 1984 | 14 | 1,290 | 5,141 | 4,960 | 1,892 | 34 | 5 |
| 1985 | 20 | 1,060 | 1,926 | 5,325 | 1,892 | 50 | 14 |
| 1986 | 102 | 4,185 | 7,439 | 4,901 | 5,928 | 216 | 25 |
| Averages |  |  |  |  |  |  |  |
| 1964-86 | 2,917 | 14,668 | 13,238 | 18,944 | 5,433 | 915 | 28 |
| 1980-86 | 304 | 5,212 | 7,759 | 6,434 | 3,090 | 225 | 16 |
| 1987 | 149 | 1,620 | 1,015 | 3,331 | 949 | 81 | 13 |

Data from Run Time 10-13-88.
a. Open for chinook fishing only.

Appendix Table B.8. Stock proportions and catch of sockeye salmon from District 108, 1986-1987, for the drift gill net fishery.

| Year | Alaska | Canada | Tahltan | Non-Tahltan | Stikine |
| :---: | ---: | ---: | ---: | :---: | :---: |
| PROPORTIONS |  |  |  |  |  |
| 1986 | 0.21 | 0.02 | 0.09 | 0.68 | 0.78 |
| 1987 | 0.13 | 0.00 | 0.44 | 0.42 | 0.87 |
| CATCH |  |  |  |  |  |
| 1986 | 863 | 0 | 392 | 2,861 | 3,252 |
| 1987 | 203 | 0 | 710 | 707 | 1,417 |

Appendix Table B.9. Canadian lower Stikine River commercial fishery annual catch and effort data, 1979-1987.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jacks | $\mathrm{ok}^{\text {a }}$ <br> Adults | Sockeye | Coho | Pink | Chum | Steel- head | Boat- <br> Days | Days Open |
| 1979 ${ }^{\circ}$ | 63 | 712 | 10,534 | 10,720 | 1,994 | 424 | 264 | n/a | 42 |
| 1980 |  | 1,488 | 18,119 | 6,629 | 736 | 771 | 362 | 701 | 41 |
| 1981 |  | 664 | 21,551 | 2,667 | 3,713 | 1,128 | 280 | 522 | 32 |
| 1982 |  | 1,693 | 15,397 | 15,904 | 1,782 | 722 | 828 | 1,093 | 71 |
| 1983 | 430 | 492 | 15,857 | 6,170 | 1,043 | 274 | 667 | 458 | 54 |
| $1984^{\text {c }}$ |  |  |  |  |  |  |  |  |  |
| 1985 | 91 | 256 | 17,093 | 2,172 | 2,321 | 532 | 231 | 145.5 | 22.5 |
| 1986. | 365 | 806 | 12,411 | 2,278 | 107 | 295 | 192 | 239 | 13.5 |
| Average:$1980-86$ |  | 1,048 ${ }^{\text {d }}$ | 16,738 | 5,970 | 1,617 | 620 | 427 | 526 | 39 |
| 1987 | 242 | 909 | 6,138 | 5,728 | 646 | 432 | 217 | 287 | 20 |

a. jacks not counted separately from adults from 1980-1982.
b. catches include upper river commercial catch, therefore, not included in averages.
c. no commercial openings.
d. chinook average includes both adults and jacks.

Appendix Table B.10. Stock proportion and catch of sockeye salmon from the Canadian lower Stikine River commercial fishery, 1979-1987.

a. Stock identification based on circuli counts.
b. No commercial fishing.
c. Stock identification based on scale pattern analysis.
d. Stock identification based on an average of scale pattern analysis and genetic analysis.

Appendix Table B.11. Canadian upper Stikine River commercial fishery annual catch and effort data, 1975-1987.

| Year | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathrm{k}^{\text {a }}$ <br> Adults | Sockeye | Coho | Pink | Chum | Steelhead | Boat- <br> Days | Days <br> Open |
| 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 | 5 |
| 1982 |  | 76 | 195 | 0 | 0 | 0 | 0 | 8 | 4 |
| 1983 |  | 75 | 614 | 0 | 0 | 4 | 1 | 10 | 8 |
| $1984{ }^{\circ}$ |  |  |  |  |  |  |  |  |  |
| 1985 |  | 62 | 1,084 | 0 | 0 | 0 | 0 | 14 | 6 |
| 1986 | 41 | 104 | 815 | 0 | 0 | 0 | 0 | 19 | 7 |
| Averages: ${ }^{\text {d }}$ |  |  |  |  |  |  |  |  |  |
| 197 | -86 | 130 | 866 | 10 | 2 | 0 | 0 |  |  |
| 198 | -86 | 120 | 696 | 7 | 3 | 1 | 0 | 12.4 | 6 |
| 1987 | 19 | 109 | 498 | 0 | 0 | 19 | 0 | 20 | 7 |
| b. catches included with lower river commercial catch, not included averages. |  |  |  |  |  | $\begin{aligned} & 1975- \\ & \text { ial } \end{aligned}$ | $1985 .$ <br> atch, | $t$ incl | ded |
| c. no commercial openings. |  |  |  |  |  |  |  |  |  |

Appendix Table B.12. Canadian Telegraph Creek food fishery annual catch data, 1972-1987

| Year | Chinook ${ }^{\text {a }}$ |  | Sockeye | Coho | Pink | Chum | Steelhead |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Jacks | Adults |  |  |  |  |  |
| 1972 |  |  | 230 | 0 | 0 | 0 | 0 |
| 1973 |  | 200 | 3,670 | 0 | 0 | 0 | 0 |
| 1974 |  |  | 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 | 0 | 0 | 0 | 0 |
| 1981 |  | 740 | 5,304 | 8 | 144 | 0 | 4 |
| 1982 |  | 618 | 4,948 | 40 | 60 | 0 | 0 |
| 1983 |  | 1,066 | 4,649 | 3 | 77 | 26 | 46 |
| 1984 |  | 702 | 5,327 | 1 | 62 | 0 | 2 |
| 1985 | 94 | 793 | 7,287 | 4 | 35 | 4 | 9 |
| 1986 | 569 | 1,026 | 4,208 | 2 | 1 | 12 | 2 |
| Averages: ${ }^{\text {b }}$ |  |  |  |  |  |  |  |
| 197 | 86 | 646 | 3,797 | 4 | 25 | 3 | 4 |
| 198 |  | 885 | 4,832 | 8 | 54 | 6 | 9 |
| 1987 | 183 | 1,183 | 2,979 | 3 | 0 | 8 | 2 |

a. jacks were not counted separately from adults from 1972-1985.
b. chinook averages include both jacks and large adults.

Appendix Table B.13. Total Canadian Stikine River commercial and food fishery annual catch data, 1972-1987.

| Year | Chinook | Sockeye | Coho | Pink | Chum | Steelhead |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 1972 |  | 230 | 0 | 0 | 0 | 0 |
| 1973 | 200 | 3,670 | 0 | 0 | 0 | 0 |
| 1974 |  | 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 | 1,625 | 13,534 | 10,720 | 1,994 | 424 | 264 |
| 1980 | 2,231 | 20,919 | 6,669 | 756 | 771 | 362 |
| 1981 | 1,558 | 27,624 | 2,675 | 3,857 | 1,128 | 284 |
| 1982 | 2,387 | 20,540 | 15,944 | 1,842 | 722 | 828 |
| 1983 | 2,063 | 21,120 | 6,173 | 1,120 | 304 | 714 |
| $1984^{\text {a }}$ | 702 | 5,327 | 1 | 62 | 0 | 2 |
| 1985 | 1,296 | 25,464 | 2,175 | 2,356 | 536 | 240 |
| 1986 | 2,911 | 17,434 | 2,280 | 108 | 307 | 194 |
| Averages:b |  |  |  |  |  |  |
| $1972-86$ | 1,200 | 11,771 | 3,113 | 806 | 279 | 193 |
| $1980-86$ | 1,878 | 19,775 | 5,131 | 1,443 | 538 | 375 |
| 1987 | 2,645 | 9,615 | 5,731 | 646 | 459 | 219 |

a. no commercial openings.
b. chinook averages include both jacks and large adults.

Appendix Table B.14. Catches from inriver test fisheries, 1984-1987.

| Year | Fishery | Chinook | Sockeye | Coho | Pink | Chum | Drifts/Sets |
| :--- | :--- | ---: | :--- | ---: | ---: | ---: | ---: |
| 1984 | US Sonar |  |  |  |  |  |  |
| 1985 | Can. Drift |  | 1,340 |  |  |  |  |
| 1986 | US Sonar |  |  |  |  |  |  |
| 1986 | Can.Drift | 27 | 412 | 226 | 25 | 405 |  |
| 1987 | Joint Drift | 128 | 385 | 162 | 111 | 61 | 845 |
| 1987 | Joint Set | 61 | 1,283 | 620 | 587 | 193 | 109 |

Note: Blanks to be filled in by next year's report.

Appendix Table B.15. Annual weir counts and timing of arrival of sockeye salmon at Tahltan Lake, 1959-1987.

| Year | Date Weir Installed | First Sockeye Arrive | Date \% Passed Weir |  | Total Sockeye Escapement |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 50\% | 90\% |  |
| 1959 | 30-Jun | 02-Aug | 12-Aug | 16-Aug | 4,311 |
| 1960 | 15-Jul | 02-Aug | 24-Aug | 27-Aug | 6,387 |
| 1961 | 20-Jul | 09-Aug | 11-Aug | 15-Aug | 16,619 |
| 1962 | 01-Aug ${ }^{\text {a }}$ | 02-Aug | 05-Aug | 08-Aug | 14,508 |
| 1963 | 03-Aug | - b |  |  | 1,780 |
| 1964 | 23-Jul | 26-Jul | 14-Aug | 25-Aug | 18,353 |
| 1965 ${ }^{\text {c }}$ | 19-Jul | 18-Jul | 02-Sep | 07-Sep | 1,471 |
| 1966 | 12-Jul | 03-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 | 08-Aug | 19,726 |
| 1969 | 07-Jul | 11-Jul | 18-Jul | 31-Jul | 11,805 |
| 1970 | 05-Jul | 25-Jul | 01-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 | 52,545 |
| 1973 | 10-Jul | 24-Jul | 30-Jul | 07-Aug | 2,877 |
| 1974 | 03-Jul | 28-Jul | 03-Aug | 17-Aug | 8,101 |
| 1975 | 10-Jul | 25-Jul | 08-Aug | 17-Aug | 8,159 |
| 1976 | 16-Jul | 29-Jul | 01-Aug | 06-Aug | 24,111 |
| 1977 | 06-Jul | 11-Jul | 16-Jul | 10-Aug | 42,960 |
| 1978 | 10-Jul | 10-Jul | 20-Jul | 29-Jul | 22,788 |
| 1979 | 09-Jul | 23-Jul | 01-Aug | 11-Aug | 10,211 |
| 1980 | 04-Jul | 15-Jul | 22-Jul | 12-Aug | 11,018 |
| 1981 | 30-Jun | 16-Jul | 26-Jul | 03-Aug | 50,790 |
| 1982 | 02-Jul | 10-Jul | 19-Jul | 29-Jul | 28,257 |
| 1983 | 27-Jun | 05-Jul | 22-Jul | 05-Aug | 21,256 |
| 1984 | 20-Jun | 19-Jul | 24-Jul | 03-Aug | 32,777 |
| 1985 | 28-Jun | 18-Jul | 31-Jul | 06-Aug | 67,326 |
| 1986 | 10-Jul | 26-Jul | 04-Aug | 11-Aug | 20,280 |
| AVERAGES |  |  |  |  |  |
| 1959-86 | 6 09-Jul | 21-Jul | 31-Jul | 11-Aug | 20,919 |
| 1980-86 | 6 30-Jun | 15-Jul | 25-Jul | 05-Aug | 33,101 |
| 1987 | 14-Jul | 21-Jul | 04-Aug | 13-Aug | 6,958 |

a. Question as to date installed.
b. Daily counts not available.
c. A land slide occurred blocking stream for a while.

Appendix Table B.16. Annual weir counts and timing of arrival of chinook salmon at Little Tahltan River, 1985-1987.

| Year | Weir In | Large Adults |  |  |  | Jacks |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { First } \\ & \text { Arrival } \end{aligned}$ | $\begin{array}{r} 50 \% \\ \text { Passed } \end{array}$ | $\begin{array}{r} 90 \% \\ \text { Passed } \end{array}$ | Total Count | $\begin{array}{r} \text { First } \\ \text { Arrival } \end{array}$ | $\begin{array}{r} 50 \% \\ \text { Passed } \end{array}$ | $\begin{array}{r} 90 \% \\ \text { Passed } \end{array}$ | Total Count |
| 1985 | 03-Jul | 04-Jul | 30-Jul | 06-Aug | 3,146 | 04-Jul | 31-Jul | 10-Aug | 413 |
| 1986 | 28-Jun | 29-Jun | 21-Jul | 05-Aug | 2,893 | 03-Jul | 25-Jul | 06-Aug | 572 |
| 1987 | 28-Jun | 04-Jul | 24-Jul | 02-Aug | 4,781 | 03-Jul | 26-Jul | 06-Aug | 364 |

Appendix Table B.17. Sockeye smolt counts at Tahltan Lake, 1984-87.

| Year | First <br> Arrival | 50\% | 90\% | 100\% | Total Count |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 11-May | 23-May | 06-Jun | 11-Jul | 219,702 |
| 1985 | 23-May | 31-May | 28-May | 05-Jul | 613,531 |
| 1986 | 10-May | 31-May | 07-Jun | 15-Jul | 244,330 |
| 1987 | 15-May | 23-May | 24-May | 16-Jul | 810,432 |

Appendix Table B.18. Stikine River sockeye run size, 1979-1987. Canadian inriver run estimates are based on PGA; U.S. estimates, on SPA. The 1986 and 1987 estimates are based on combined PGA and SPA. Total run size equals the average inriver run size plus the marine catch. Estimates of marine catch of Stikine sockeye salmon for 1979-1981 are based on average stock compositions from 1982-1986.

| Year | Inriver Run Estimates |  |  | Marine Catch | Total Run Size |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Canada | U.S. | Average |  |  |
| ALL SOCKEYE SALMON |  |  |  |  |  |
| 1979 |  | 34,116 | 34,116 | 8,299 | 42,415 |
| 1980 |  | 62,744 | 62,744 | 23,206 | 85,950 |
| 1981 |  | 138,503 | 138,503 | 27,538 | 166,041 |
| 1982 |  | 68,442 | 68,442 | 43,094 | 111,536 |
| 1983 | 66,000 | 65,719 | 65,860 | 5,804 | 71,664 |
| 1984 | 84,544 | 59,169 | 71,857 | 7,783 | 79,639 |
| 1985 | 207,739 | 137,695 | 172,717 | 29,937 | 202,654 |
| 1986 |  |  | 63,548 | 10,446 | 73,994 |
| AVERAGE |  |  |  |  |  |
| 1979-86 |  |  | 84,723 | 19,513 | 104,236 |
| 1980-86 |  |  | 91,953 | 21,115 | 113,068 |
| 1987 |  |  | 39,262 | 4,060 | 43,323 |
| TAHLTAN STOCK |  |  |  |  |  |
| 1979 |  | 14,772 | 14,772 | 5,076 | 19,848 |
| 1980 |  | 19,137 | 19,137 | 11,239 | 30,376 |
| 1981 |  | 65,789 | 65,789 | 16,189 | 81,978 |
| 1982 |  | 42,297 | 42,297 | 24,785 | 67,082 |
| 1983 | 27,921 | 32,137 | 30,029 | 5,101 | 35,130 |
| 1984 | 33,277 | 37,572 | 35,425 | 3,189 | 38,614 |
| 1985 | 75,306 | 85,509 | 80,408 | 26,088 | 106,495 |
| 1986 |  |  | 28,549 | 5,279 | 33,828 |
| AVERAGE |  |  |  |  |  |
| 1979-86 |  |  | 39,550 | 12,118 | 51,669 |
| 1980-86 |  |  | 43,090 | 13,124 | 56,215 |
| 1987 |  |  | 11,922 | 2,253 | 14,176 |

Appendix Table C.1. District 111 commercial drift gill net fishery weekly catch and effort data for 1987.

|  |  |  |  | Catch |  |  | Eff |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 26 | $6 / 21$ | 494 | 2,621 | 99 | 893 | 328 | 51 | 3 |
| 27 | 6/28 | 539 | 6,845 | 315 | 17,534 | 2,593 | 71 | 3 |
| 28 | 7/05 | 170 | 5,437 | 220 | 35,958 | 6,170 | 78 | 2.25 |
| 29 | 7/12 | 16 | 12,744 | 115 | 45,325 | 2,769 | 76 | 1.5 |
| 30 | 7/19 | 249 | 15,457 | 1,309 | 118,446 | 25,521 | 118 | 3 |
| 31 | 7/26 | 122 | 14,035 | 2,064 | 92,419 | 13,551 | 137 | 5 |
| 32 | 8/02 | 73 | 9,521 | 1,687 | 28,109 | 3,135 | 61 | 4 |
| 33 | 8/09 | 59 | 4,142 | 2,878 | 10,846 | 3,391 | 54 | 3 |
| 34 | 8/16 | 102 | 1,990 | 2,416 | 5,046 | 5,785 | 86 | 2 |
| 35 | 8/23 | 149 | 1,414 | 9,239 | 1,076 | 25,039 | 124 | 2 |
| 36 | 8/30 | 84 | 211 | 8,491 | 72 | 19,057 | 155 | 2 |
| 37 | 9/06 | 41 | 34 | 4,731 | 1 | 11,021 | 72 | 2 |
| 38 | 9/13 | 7 | 3 | 824 | 0 | 2,109 | 19 | 1 |
| 39 | 9/20 | 0 | 3 | 626 | 0 | 1,273 | 10 | 1 |
| 40 | 9/27 | 0 | 0 | 159 | 0 | 120 | 5 | 1 |
| Total |  | 2,105 | 74,457 | 35,173 | 355,725 | 121,862 | 35.75 |  |
| Total effort in boat-days |  |  |  |  |  |  |  |  |

Data from Run Time 10-13-88.

Appendix Table C.2. District 111 test drift gill net fishery weekly catch and effort data for 1987.

| Week | Start Date | Catch |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 28 | 7/05 | 0 | 166 | 4 | 1,218 | 77 | 2 | 1 |
| 29 | 7/12 | 0 | 544 | 22 | 1,152 | 160 | 2 | 1 |
| 30 | 7/19 | 0 | 392 | 8 | 1,663 | 166 | 2 | 1 |
| 31 | 7/26 | 0 | 317 | 35 | 902 | 74 | 2 | 1 |
| 35 | 8/23 | 0 | 5 | 35 | 0 | 177 | 2 | 1 |
| 36 | 8/30 | 0 | 4 | 178 | 0 | 217 | 2 | 1 |
| 37 | 9/06 | 0 | 2 | 104 | 0 | 245 | 2 | 1 |
| 38 | 9/13 | 0 | 1 | 156 | 0 | 482 | 2 | 1 |
| Total |  | 0 | 1,431 | 542 | 4,935 | 1,598 |  | 8 |

Appendix Table C.3. Proportions of Taku sockeye stocks harvested in the District 111 commercial drift gill net fishery, 1987. Stock proportions are determined from scale pattern analysis. The remaining portion of the harvest is from Port Snettisham systems.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | 0.62 | 0.00 | 0.35 | 0.01 | 0.98 |
| 27 | 0.31 | 0.22 | 0.34 | 0.04 | 0.90 |
| 28 | 0.10 | 0.35 | 0.39 | 0.05 | 0.88 |
| 29 | 0.07 | 0.59 | 0.24 | 0.06 | 0.95 |
| 30 | 0.04 | 0.18 | 0.18 | 0.01 | 0.41 |
| 31 | 0.00 | 0.08 | 0.50 | 0.04 | 0.62 |
| 32 | 0.02 | 0.16 | 0.51 | 0.00 | 0.69 |
| 33 | 0.00 | 0.15 | 0.64 | 0.05 | 0.84 |
| $34-39$ | 0.00 | 0.00 | 0.69 | 0.04 | 0.73 |
| Total | 0.08 | 0.23 | 0.38 | 0.03 | 0.72 |

Appendix Table C.4. Catch of Taku sockeye stocks in the District 111 commercial drift gill net fishery, 1987.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie Total |  |
| :---: | ---: | :---: | :---: | :---: | ---: |
| 26 | 1,613 | 0 | 924 | 36 | 2,563 |
| 27 | 2,132 | 1,482 | 2,299 | 225 | 5,594 |
| 28 | 526 | 1,889 | 2,095 | 294 | 4,804 |
| 29 | 851 | 7,523 | 2,995 | 712 | 13,242 |
| 30 | 674 | 2,756 | 2,813 | 160 | 6,403 |
| 31 | 0 | 1,182 | 6,984 | 516 | 8,682 |
| 32 | 205 | 1,508 | 4,844 | 0 | 6,557 |
| 33 | 0 | 628 | 2,662 | 192 | 3,482 |
| 34 | 0 | 0 | 1,379 | 75 | 1,454 |
| 35 | 0 | 0 | 980 | 53 | 1,033 |
| 36 | 0 | 0 | 146 | 8 | 154 |
| 37 | 0 | 0 | 24 | 1 | 25 |
| 38 | 0 | 0 | 2 | 0 | 2 |
| 39 | 6,001 | 16,968 | 28,148 | 2,301 | 53,419 |
| Total |  |  |  | 0 | 2 |

Appendix Table C.5. Catch of Taku sockeye stocks in the District 111 test gill net fishery, 1987. Stock proportions from the commercial fishery (Table C.3) were used to estimate catch by stock in the test fishery.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie Total |  |
| :---: | ---: | ---: | :---: | :---: | :---: |
| 28 | 16 | 58 | 64 | 9 | 147 |
| 29 | 36 | 321 | 128 | 30 | 516 |
| 30 | 17 | 70 | 71 | 4 | 162 |
| 31 | 0 | 27 | 158 | 12 | 196 |
|  |  |  |  |  |  |
| 35 | 0 | 1 | 3 | 0 | 4 |
| 36 | 0 | 0 | 3 | 0 | 3 |
| 37 | 0 | 0 | 1 | 0 | 1 |
| 38 | 69 | 476 | 429 | 56 | 1,030 |
| Total |  |  |  |  |  |

Appendix Table C.6. Canadian Taku River commercial gill net fishery weekly catch and effort data for 1987.

| Week | Start Date | Catch |  |  |  |  |  |  | Effort |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Jacks | ook <br> dults | Sockeye | Coho | Pink | Chum | $\begin{aligned} & \text { Steel- } \\ & \text { head } \end{aligned}$ | Boats | Days |
| 27 | 6/29 | 18 | 37 | 178 | 0 | 24 | 0 | 3 | 11 | 1 |
| 28 | 7/06 | 54 | 39 | 508 | 2 | 622 | 0 | 0 | 13 | 1 |
| 29 | 7/13 | 26 | 26 | 782 | 15 | 4,423 | 0 | 0 | 13 | 2 |
| 30 | 7/20 | 6 | 18 | 4,621 | 160 | 1,115 | 5 | 0 | 12 | 3 |
| 31 | 7/27 | 0 | 1 | 751 | 77 | 0 | 0 | 0 | 12 | 2 |
| 32 | 8/03 | 2 | 5 | 4,118 | 768 | 61 | 15 | 0 | 12 | 4 |
| 33 | 8/10 | 0 | 1 | 1,577 | 625 | 5 | 19 | 11 | 13 | 2 |
| 34 | 8/17 | 0 | 0 | 624 | 596 | 0 | 16 | 18 | 13 | 1 |
| 35 | 8/24 | 0 | 0 | 195 | 385 | 0 | 36 | 9 | 12 | 1 |
| 36 | 8/31 | 0 | 0 | 148 | 1,017 | 0 | 152 | 17 | 12 | 2 |
| 37 | 9/07 | 0 | 0 | 30 | 587 | 0 | 472 | 29 | 11 | 2 |
| 38 | 9/14 | 0 | 0 | 16 | 524 | 0 | 831 | 67 | 5 | 2.2 |
| 39 | 9/21 | 0 | 0 | 6 | 843 | 0 | 724 | 69 | 5 | 3 |
| Total |  | 106 | 127 | 13,554 | 5,599 | 6,250 | 2,270 | 223 | 13 | 26.2 |
| Total effort in boat-days |  |  |  |  |  |  |  |  | 281 |  |

Appendix Table C.7. Proportions of stock for the sockeye catch from the Canadian commercial Taku River fishery, 1987. Stock proportions are determined from scale pattern analysis.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie |
| :---: | :---: | :---: | :---: | :---: |
| 27 | 0.41 | 0.21 | 0.34 | 0.04 |
| 28 | 0.41 | 0.21 | 0.34 | 0.04 |
| 29 | 0.17 | 0.62 | 0.21 | 0.00 |
| 30 | 0.08 | 0.29 | 0.58 | 0.05 |
| 31 | 0.02 | 0.16 | 0.76 | 0.06 |
| 32 | 0.02 | 0.15 | 0.65 | 0.19 |
| 33 | 0.00 | 0.00 | 0.93 | 0.07 |
| $34-39$ | 0.00 | 0.00 | 1.00 | 0.00 |
| Total | 0.06 | 0.20 | 0.65 | 0.09 |

Appendix Table C.8. Sockeye catch by stock for the Canadian Taku River commercial fishery, 1987.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie |
| :---: | ---: | :---: | :---: | :---: |
| 27 | 72 | 37 | 61 | 8 |
| 28 | 206 | 106 | 174 | 22 |
| 29 | 234 | 487 | 161 | 0 |
| 30 | 348 | 1,357 | 2,669 | 247 |
| 31 | 14 | 122 | 572 | 43 |
| 32 | 60 | 619 | 2,675 | 764 |
| 33 | 0 | 0 | 1,462 | 115 |
| 34 | 0 | 0 | 624 | 0 |
| 35 | 0 | 0 | 195 | 0 |
| 36 | 0 | 0 | 148 | 0 |
| 37 | 0 | 0 | 30 | 0 |
| 38 | 0 | 0 | 16 | 0 |
| 39 | 834 | 2,728 | 8,793 | 1,199 |
| Total |  |  | 6 | 0 |

Appendix Table C.9. Canadian Taku River test fishery weekly catch and effort data, 1987.

| Week | Start Date | Catch |  |  |  |  | $\frac{\text { Effort }}{\text { \#Drifts }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Chinook | Sockeye | Coho | Pink | Chum |  |
| 31 | 7/27 | 0 | 59 | 4 | 16 | 0 | 40 |
| 32 | 8/03 | 2 | 51 | 11 | 10 | 1 | 30 |
| 33 | 8/10 | 0 | 38 | 50 | 7 | 4 | 50 |
| 34 | 8/17 | 0 | 59 | 78 | 2 | 5 | 60 |
| 35 | 8/24 | 0 | 11 | 52 | 0 | 3 | 50 |
| 36 | 8/31 | 0 | 8 | 122 | 0 | 52 | 50 |
| 37 | 9/07 | 0 | 2 | 17 | 0 | 17 | 50 |
| 38 | 9/14 | 0 | 6 | 52 | 0 | 204 | 45 |
| 39 | 9/21 | 0 | 2 | 99 | 0 | 185 | 40 |
| 40 | 9/27 | 1 | 1 | 201 | 0 | 191 | 70 |
| 41 | 10/04 | 0 | 0 | 99 | 0 | 63 | 70 |
| 42 | 10/11 | 0 | 0 | 22 | 0 | 18 | 30 |
| Total |  | 3 | 237 | 807 | 35 | 743 | 585 |

Appendix Table C.10. Catch by stock for sockeye salmon harvested in the Canadian Taku River test fishery, 1987. Stock proportions from the commercial fishery (Appendix Table C.7) were used to determine catch by stock.

| Week | Kuthai | L.Trapper | Mainstem | L.Tatsamenie |
| :---: | ---: | ---: | :---: | :---: |
| 31 | 1 | 10 | 45 | 3 |
| 32 | 1 | 8 | 33 | 9 |
| 33 | 0 | 0 | 35 | 3 |
| 34 | 0 | 0 | 59 | 0 |
| 35 | 0 | 0 | 11 | 0 |
| 36 | 0 | 0 | 8 | 0 |
| 37 | 0 | 0 | 2 | 0 |
| 38 | 0 | 0 | 6 | 0 |
| 39 | 0 | 0 | 2 | 0 |
| $40-42$ | 2 | 17 | 202 | 0 |
| Total |  |  |  | 16 |

Appendix Table C.11. Mark-recapture estimates of the Taku River sockeye salmon run by week, 1987. Escapement is determined by subtracting off the Canadian inriver harvest from the inriver run.

| Week | Start <br> Date | Inriver <br> Run | Canadian <br> Harvest $^{\text {a }}$ | Escapement |
| :---: | ---: | ---: | ---: | ---: |
| 27 | $6 / 28$ | 4,888 | 178 | 4,710 |
| 28 | $7 / 05$ | 7,862 | 508 | 7,354 |
| 29 | $7 / 12$ | 9,980 | 782 | 9,198 |
| 30 | $7 / 19$ | 26,364 | 4,621 | 21,743 |
| 31 | $7 / 26$ | 12,371 | 810 | 11,561 |
| 32 | $8 / 02$ | 14,929 | 4,169 | 10,760 |
| $33-39$ | $8 / 09$ | 10,736 | 2,723 | 8,013 |
| Total |  | 87,130 | 13,791 | 73,339 |

a. Commercial and test fisheries.

APPENDIX D. Taku River historical annual data

Appendix Table D.1. District 111 annual catch and effort data, 1964-1987, for the drift gill net fishery.

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 2,509 | 34,140 | 29,315 | 26,593 | 12,853 | 1,752 | 56 |
| 1965 | 4,170 | 27,569 | 32,667 | 2,768 | 11,533 | 1,461 | 63 |
| 1966 | 4,829 | 33,925 | 26,065 | 23,833 | 35,133 | 1,708 | 64 |
| 1967 | 5,417 | 17,735 | 40,391 | 12,372 | 22,834 | 1,792 | 53 |
| 1968 | 4,904 | 19,501 | 39,103 | 67,365 | 21,890 | 2,686 | 60 |
| 1969 | 6,986 | 41,169 | 10,802 | 73,927 | 15,049 | 1,552 | 41.5 |
| 1970 | 3,357 | 50,922 | 44,960 | 197,017 | 110,390 | 3,214 | 53 |
| 1971 | 6,958 | 66,181 | 41,830 | 31,484 | 91,145 | 3,004 | 55 |
| 1972 | 10,955 | 80,404 | 49,780 | 144,339 | 147,957 | 3,831 | 50 |
| 1973 | 9,799 | 85,317 | 35,453 | 58,186 | 109,245 | 3,532 | 38 |
| 1974 | 2,905 | 38,676 | 38,661 | 57,732 | 86,687 | 2,710 | 27.5 |
| 1975 | 2,182 | 32,513 | 1,185 | 9,567 | 2,678 | 1,240 | 15.5 |
| 1976 | 1,757 | 61,749 | 41,729 | 14,962 | 81,803 | 2,152 | 25 |
| 1977 | 1,068 | 70,097 | 54,917 | 88,578 | 61,102 | 2,603 | 27 |
| 1978 | 1,926 | 55,398 | 31,944 | 51,385 | 36,254 | 2,406 | 24 |
| 1979 | 3,702 | 122,376 | 16,192 | 152,410 | 61,200 | 2,493 | 28.83 |
| 1980 | 2,422 | 123,117 | 41,515 | 295,553 | 192,750 | 4,451 | 30.92 |
| 1981 | 1,720 | 49,765 | 26,803 | 255,029 | 76,092 | 2,862 | 30 |
| 1982 | 3,057 | 83,479 | 29,072 | 109,385 | 37,310 | 2,639 | 35.5 |
| 1983 | 888 | 31,627 | 21,443 | 66,080 | 15,188 | 1,411 | 34 |
| 1984 | 1,773 | 77,233 | 33,836 | 145,949 | 86,741 | 3,139 | 66.5 |
| 1985 | 2,651 | 88,192 | 55,597 | 311,248 | 106,720 | 3,888 | 48 |
| 1986 | 2,606 | 73,061 | 30,512 | 16,568 | 58,792 | 2,164 | 32.5 |
| AVERAGES |  |  |  |  |  |  |  |
| 1964-86 | 3,850 | 59,311 | 33,642 | 96,189 | 64,406 | 2,552 | 42 |
| 1980-86 | 2,160 | 75,211 | 34,111 | 171,402 | 81,942 | 2,936 | 40 |
| 1987 | 2,105 | 74,457 | 35,173 | 355,725 | 121,862 | 3,009 | 35.75 |

Data from Run Time 10-13-88.

Appendix Table D.2. Proportion and catch of Taku sockeye salmon in the District 111 gill net fishery sockeye harvest, l983-1987.

| Year | Proportion | Catch |
| :---: | :---: | :---: |
| 1983 | 0.76 | 23,878 |
| 1984 | 0.76 | 58,543 |
| 1985 | 0.84 | 73,905 |
| 1986 | 0.83 | 60,933 |
| Average | 0.80 | 54,315 |
| 1987 | 0.72 | 53,419 |

Appendix Table D.3. Taku River annual catch and effort data, 1979-1987, for the Canadian drift gill net fishery.

| Year | Catch |  |  |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook Jacks Adults |  | Sockeye | Coho | Pink | Chum | Steelhead |  |  |
| 1979 |  | 97 | 13,578 | 6,006 | 13,661 | 15,474 | 254 | 599 | 50 |
| 1980 |  | 225 | 22,602 | 6,405 | 26,821 | 18,516 | 457 | 479 | 39 |
| 1981 |  | 159 | 10,922 | 3,607 | 10,771 | 5,591 | 108 | 243 | 31.25 |
| 1982 |  | 54 | 3,144 | 51 | 202 | 3 | 1 | 38 | 13 |
| 1983 | 400 | 156 | 17,056 | 8,390 | 1,874 | 1,760 | 213 | 390 | 64 |
| 1984 | 221 | 294 | 27,242 | 5,357 | 6,964 | 2,492 | 367 | 288 | 30 |
| 1985 | 24 | 326 | 14,244 | 1,770 | 3,373 | 136 | 32 | 178 | 16 |
| 1986 | 77 | 275 | 14,739 | 1,783 | 58 | 110 | 48 | 148 | 17 |
| AVERAGE |  |  |  |  |  |  |  |  |  |
| 1979 | -86 | 287 | 15,441 | 4,171 | 7,966 | 5,510 | 185 | 295 | 33 |
| 1980 | -86 | 314 | 15,707 | 3,909 | 7,152 | 4,087 | 175 | 252 | 30 |
| 1987 | 106 | 127 | 13,554 | 5,599 | 6,250 | 2,270 | 223 | 281 | 26 |

Appendix Table D.4. Salmon counts at Taku River and Port Snettisham weirs, 1983-1987.

| Year | Sockeye |  |  |  |  | Coho ${ }^{\text {a }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Trapper | Tatsam. | Hackett | Speel | Crescent | Tatsam. | Hackett |
| 1983 | 7,402 |  |  | 10,484 | 19,422 |  |  |
| 1984 | 13,084 |  |  | 9,764 | 6,707 |  |  |
| 1985 | 14,889 | 13,015 | 2,308 | 7,073 | 7,249 | 106 | 1,031 |
| 1986 | 13,820 | 11,368 | 1,004 | 5,857 | 3,414 | 80 | 2,723 |
| AVERAGE | 12,299 | 12,192 | 1,657 | 8,295 | 9,198 | 93 | 1,877 |
| 1987 | 12,007 | 2,794 | 910 | 9,319 | 7,839 | 173 | 1,715 |

a. Weir was removed prior to end of coho run.

Appendix Table D.5. Aerial survey escapement counts of chinook salmon during periods of maximum spawning density in selected Taku River tributaries, 19771987.

|  |  |  |  |
| :--- | ---: | ---: | ---: |
| Year | Nakina | Nahlin | Combined |
| 1977 | 3,850 | 650 | 4,500 |
| 1978 | 1,620 | 624 | 2,244 |
| 1979 | 2,110 | 857 | 2,967 |
| 1980 | 4,500 | 1,531 | 6,031 |
| 1981 | 5,110 | 2,945 | 8,055 |
| 1982 | 2,533 | 968 | 391 |
| 1983 | 1,887 | 951 | 1,379 |
| 1984 | 2,647 | 1,636 | 2,838 |
| 1985 | 3,868 |  | 4,883 |
| 1986 |  | 1,304 | 5,480 |
| Average |  | 1,559 | 4,214 |
| $1977-1986$ | 2,909 | 1,122 | 4,632 |
| $1980-1986$ | 3,073 |  | 4,028 |
| 1987 | 2,906 |  |  |

Appendix Table D.6. Taku River sockeye run reconstruction, 1983-1987. Total run equals U.S. catch plus inriver run. Catches include commercial and test fishery catches.

| Year | Canadian <br> Catch | Escape- <br> ment | Inriver <br> Run | U.S. <br> Catch | Total <br> Run |
| :--- | ---: | ---: | ---: | ---: | ---: |
| 1984 | 27,242 | 106,172 | 133,414 | 58,543 | 191,957 |
| 1985 | 14,244 | 103,916 | 118,160 | 73,905 | 192,045 |
| 1986 | 14,739 | 90,370 | 105,109 | 60,933 | 166,042 |
| AVERAGE <br> $1984-86$ | 18,742 | 100,153 | 118,894 | 64,460 | 183,354 |
| 1987 | 13,791 | 73,339 | 87,130 | 54,449 | 141,579 |

APPENDIX E. Alsek River data

Appendix Table E.1. Alaskan Alsek River set gill net fishery weekly catch and effort data, 1987.

|  |  |  |  | Catch |  |  | Eff |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Date | Chinook | Sockeye | Coho | Pink | Chum | Boats | Days |
| 24 | 6/07 | 16 | 407 | 0 | 0 | 0 | 18 | 0.5 |
| 25 | 6/14 | 206 | 3,508 | 0 | 0 | 0 | 24 | 2 |
| 26 | 6/21 | 106 | 2,341 | 0 | 0 | 0 | 27 | 3 |
| 27 | 6/28 | 17 | 1,298 | 0 | 0 | 0 | 23 | 2 |
| 28 | 7/05 | 0 | 1,185 | 0 | 0 | 1 | 18 | 1 |
| 29 | 7/12 | 1 | 1,225 | 0 | 0 | 1 | 18 | 2 |
| 30 | 7/19 |  |  |  |  |  |  | 0 |
| 31 | 7/26 | 0 | 388 | 0 | 0 | 0 | 3 | 1 |
| 32 | 8/02 | 0 | 427 | 0 | 0 | 0 | 4 | 1 |
| 33 | 8/09 | 0 | 344 | 6 | 0 | 4 | 7 | 1 |
| 34 | 8/16 | 0 | 113 | 26 | 0 | 5 | 4 | 3 |
| 35 | 8/23 | 0 | 28 | 68 | 0 | 4 | 5 | 3 |
| 36 | 8/30 | 1 | 7 | 44 | 0 | 4 | 4 | 3 |
| 37 | 9/06 | 0 | 1 | 2 | 0 | 0 | 1 | 4 |
| 38 | 9/13 | 0 | 9 | 733 | 0 | 440 | 9 | 4 |
| 39 | 9/20 | 0 | 0 | 959 | 0 | 753 | 7 | 4 |
| 40 | 9/27 | 0 | 0 | 679 | 0 | 712 | 5 | 4 |
| Total |  | 347 | 11,281 | 2,517 | 0 | 1,924 | 40.5 |  |
| Total effort in boat-days |  |  |  |  |  |  | 388 |  |

Data from Run Time 10-13-88.

Appendix Table E.2. Alaskan Alsek River set gill net fishery annual catch and effort data, 1964-1987.

| Year | Catch |  |  |  |  | Effort <br> Boat- <br> Days | Days Open |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Chinook | Sockeye | Coho | Pink | Chum |  |  |
| 1964 | 591 | 14,127 | 9,760 | 144 | 367 | 592 | 72 |
| 1965 | 719 | 28,487 | 9,638 | 10 | 72 | 1016 | 72 |
| 1966 | 934 | 29,091 | 2,688 | 22 | 240 | 500 | 68 |
| 1967 | 225 | 11,108 | 10,090 | 107 | 30 | 600 | 68 |
| 1968 | 215 | 26,918 | 10,586 | 82 | 240 | 664 | 68 |
| 1969 | 685 | 29,259 | 2,493 | 38 | 61 | 807 | 61 |
| 1970 | 1,128 | 22,654 | 2,188 | 6 | 26 | 670 | 52.25 |
| 1971 | 1,222 | 25,314 | 4,730 | 3 | 120 | 764 | 60.5 |
| 1972 | 1,827 | 18,717 | 7,296 | 37 | 280 | 640 | 65 |
| 1973 | 1,757 | 26,523 | 4,395 | 26 | 283 | 894 | 52 |
| 1974 | 1,162 | 16,747 | 7,046 | 13 | 107 | 699 | 46 |
| 1975 | 1,379 | 13,842 | 2,230 | 16 | 261 | 738 | 58 |
| 1976 | 512 | 19,741 | 4,883 | 0 | 368 | 550 | 58.5 |
| 1977 | 1,402 | 40,780 | 11,817 | 689 | 483 | 893 | 57 |
| 1978 | 2,441 | 50,580 | 13,913 | 59 | 233 | 948 | 57 |
| 1979 | 2,525 | 41,449 | 6,158 | 142 | 263 | 1146 | 51 |
| 1980 | 1,382 | 25,589 | 7,863 | 21 | 1,005 | 794 | 42 |
| 1981 | 779 | 23,697 | 10,096 | 65 | 816 | 96 | 40 |
| 1982 | 532 | 27,389 | 6,534 | 6 | 358 | 497 | 36 |
| 1983 | 93 | 17,890 | 5,253 | 20 | 432 | 458 | 38 |
| 1984 | 46 | 12,751 | 7,867 | 23 | 1,608 | 429 | 33 |
| 1985 | 213 | 5,940 | 5,622 | 3 | 427 | 33 | 33 |
| 1986 | 478 | 24,791 | 1,344 | 13 | 462 | 517 | 34 |
| AVERAGES |  |  |  |  |  |  |  |
| 1964-86 | 967 | 34,060 | 6,717 | 67 | 371 | 650 | 53 |
| 1980-86 | 503 | 19,721 | 6,368 | 22 | 730 | 403 | 37 |
| 1987 | 347 | 11,281 | 2,517 | 0 | 1,924 | 388 | 40.5 |

Appendix Table E.3. Canadian Indian food and sport catch of AlsekTatshenshini salmon, 1976-1987.

| Year | Chinook |  |  | Sockeye |  |  | Coho |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Food | Sport | Total | Food | Sport | Total | Food | Sport | Total |
| 1976 | 125 | 200 | 325 | 3,750 | 600 | 4,350 | 0 | 100 | 100 |
| 1977 | 250 | 300 | 550 | 11,350 | 500 | 11,850 | 0 | 200 | 200 |
| 1978 | 300 | 300 | 600 | 7,850 | 500 | 8,350 | 0 | 200 | 200 |
| 1979 | 130 | 650 | 780 | 5,260 | 750 | 6,010 | 0 | 100 | 100 |
| 1980 | 150 | 200 | 350 | 900 | 600 | 1,500 | 0 | 200 | 200 |
| 1981 | 150 | 315 | 465 | 1,900 | 808 | 2,708 | 0 | 109 | 109 |
| 1982 | 400 | 224 | 624 | 4,800 | 755 | 5,555 | 0 | 109 | 109 |
| 1983 | 300 | 312 | 612 | 2,475 | 732 | 3,207 | 0 | 16 | 16 |
| 1984 | 100 | 475 | 575 | 2,500 | 289 | 2,789 | 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 |
| AVERAGE |  |  |  |  |  |  |  |  |  |
| 76-86 | 198 | 308 | 507 | 4,005 | 540 | 4,546 | 5 | 106 | 110 |
| 80-86 | 197 | 277 | 474 | 2,264 | 513 | 2,777 | 7 | 80 | 88 |
| 1987 | 125 | 365 | 490 | 1,158 | 383 | 1,541 | 0 | 49 | 49 |

Appendix Table E.4. Klukshu River weir counts of chinook, sockeye, and coho salmon, 1976-1987.

| Year | Chinook | Sockeye <br> Late |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Early | Total | Coho ${ }^{\text {b }}$ |  |  |  |
| 1976 | 1,278 | 181 | 11,510 | 11,691 | 1,572 |
| 1977 | 3,144 | 8,931 | 17,860 | 26,791 | 2,758 |
| 1978 | 2,976 | 2,508 | 24,359 | 26,867 | 30 |
| 1979 | 4,404 | 977 | 11,334 | 12,311 | 175 |
| 1980 | 2,637 | 1,008 | 10,742 | 11,750 | 704 |
| 1981 | 2,113 | 997 | 19,351 | 20,348 | 1,170 |
| 1982 | 2,369 | 7,758 | 25,941 | 33,699 | 189 |
| 1983 | 2,537 | 6,047 | 14,445 | 20,492 | 303 |
| 1984 | 1,672 | 2,769 | 9,958 | 12,727 | 1,402 |
| 1985 | 1,458 | 539 | 18,081 | 18,620 | 350 |
| 1986 | 2,709 | 416 | 24,434 | 24,850 | 71 |
| AVERAGE |  |  |  |  |  |
| $76-86$ | 2,482 | 2,921 | 17,092 | 20,013 | 793 |
| $80-86$ | 2,214 | 2,791 | 17,565 | 20,355 | 598 |
| 1987 | 2,616 | 3,269 | 7,235 | 10,504 | 202 |

a. Count is up to and including August 15.
b. Weir was removed prior to end of coho run.

Appendix Table E.5. Escapement counts by electric counter at Village Creek, 1986-1987.

| Year | Sockeye |
| :--- | :---: |
| 1986 | 2,021 |
| $1987^{\circ}$ | 1,850 |

a. incomplete count due to machine malfunction.


[^0]:    1 Escapement goals for Stikine River sockeye salmon are presented in "Stikine River Sockeye Salmon Management Plan, 1987" prepared by the Transboundary Technical Committee.

