



ABUNDANCE, AGE, SEX, AND SIZE OF CHINOOK SALMON
(Oncorhynchus tshawytscha Walbaum) CATCHES AND ESCAPEMENTS
IN SOUTHEASTERN ALASKA IN 1985

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September 1987

ADF&G TECHNICAL DATA REPORTS

This series of reports is designed to facilitate prompt reporting of data from studies conducted by the Alaska Department of Fish and Game, especially studies which may be of direct and immediate interest to scientists of other agencies.

The primary purpose of these reports is presentation of data. Description of programs and data collection methods is included only to the extent required for interpretation of the data. Analysis is generally limited to that necessary for clarification of data collection methods and interpretation of the basic data. No attempt is made in these reports to present analysis of the data relative to its ultimate or intended use.

Data presented in these reports is intended to be final, however, some revisions may occasionally be necessary. Minor revision will be made via errata sheets. Major revisions will be made in the form of revised reports.

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September 1987

¹This investigation was partially financed by the Anadromous Fish Conservation Act (P.L. 89-304 as amended) under Project No. AFC-72.

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ABSTRACT

A total of 278,922 chinook salmon (*Oncorhynchus tshawytscha* Walbaum) were harvested in Southeastern Alaska and Yakutat during the 1984-85 winter troll fishery and the 1985 summer troll, seine, gill net (drift and set), trap, sport, and subsistence fisheries. The summer troll fishery catch of 194,156 chinook salmon represented 70% of the total harvest and most were caught in outer coastal waters. Purse seiners harvested 23,141 chinook salmon and drift gill net fishermen harvested 10,721. The Southeastern Alaskan sport harvest was 24,858 chinook salmon. Small harvests of chinook salmon were taken by the Canadian commercial gill net fisheries on the Taku (350 fish) and Stikine (409 fish) Rivers, by the Annette Island Fishery Reserve fish traps (366 fish), by Alaskan subsistence fishermen on the Chilkat River (17 fish), and by Canadian subsistence fishermen on the Stikine (887 fish) and Alsek (150 fish) Rivers. The estimated total Southeastern Alaska chinook salmon escapement was 37,084.

Catch statistics and escapement estimates are further summarized for chinook salmon in Southeastern Alaska for the 1985 season. Commercial troll, seine, and gill net catches were apportioned into age and length groups based on available sample data. The age and length composition of the 1985 troll harvest was summarized by sampling period for four areas of Southeastern Alaska. Age, sex, and length data are also presented for sport and Canadian transboundary river fisheries and for escapements to 17 rivers and 3 hatcheries in the region.

There were differences in chinook age compositions of commercial harvests by gear type, area, and time. Most of the fish harvested in the troll and seine fisheries had gone to sea during the first year of life (freshwater-age 0.), (53% and 68%, respectively), while only 12% of the fish sampled from the gill net fisheries were freshwater-age 0. The percent of freshwater-age 0. fish in the summer troll fishery was highest in the outer coastal areas. Age 0.3, 1.3, and 0.4 fish predominated in the troll fishery. The percent of age 0.2 and 1.2 fish in the summer troll fishery increased through time and probably represents recruitment to the fishery. The percent of fish aged 0.4 and 1.4 decreased through the summer and probably reflects emigration out of the fishery for these maturing fish.

Freshwater-age 1. chinook salmon predominated samples from Alaskan wild and hatchery returns. Age composition analysis reveals that virtually all the 104,601 freshwater-age 0. fish harvested in the summer troll and net fisheries were of non-Alaskan origin. The proportion of freshwater-age 0. fish decreased in the commercial harvests by 15% between 1984 and 1985.

KEY WORDS: Catch allocation, age composition, chinook salmon, *Oncorhynchus tshawytscha*, fishery synopsis, Southeastern Alaska, catch and escapement.

INTRODUCTION

The management of Southeastern Alaska's chinook salmon (*Oncorhynchus tshawytscha* Walbaum) fisheries is complicated by high user demand of a generally depressed resource harvested, with few exceptions, in highly mixed-stock fisheries. Natural and hatchery stocks originating from Oregon to Alaska have been shown to contribute to the fisheries of Southeastern Alaska (Parker and Kirkness 1956; Clark, Van Alen, and Marshall 1985). Chinook salmon are harvested in commercial, sport, and subsistence fisheries in Southeastern Alaska, however, the majority are taken by the commercial troll fleet during the summer. Annual commercial catches averaged about 320,000 fish during the 1970's and early 1980's. In the 1930's the annual harvest was approximately twice this, or 610,000 fish. Since 1980 Southeastern Alaska fisheries have been managed so that the annual catch falls within guideline harvest levels established by the Alaska Board of Fisheries, the North Pacific Fisheries Management Council, and since 1985, by the Pacific Salmon Commission under the terms of the Pacific Salmon Treaty. A major intent of the Pacific Salmon Treaty is to rebuild depressed natural runs of chinook salmon, coastwide, by 1998. Annual assessment of the magnitude and age, sex, and size composition of chinook salmon catches and escapements is needed to establish and evaluate management strategies intended to achieve Treaty goals. In addition to the Treaty objectives, this information is useful for establishment of domestic management policies intended to optimize escapements, maximize harvests, and equitably allocate the resource between user groups.

The objective of this report is to document the available data regarding the magnitudes and the composition by age, sex, and size of catches and escapements of chinook salmon in Southeastern Alaska during 1985. We also estimate the minimum number of non-Alaskan and maximum number of Alaskan origin chinook salmon (including transboundary stocks for which proprietorship is shared between Alaska and Canada under the U.S./Canada Pacific Salmon Treaty) harvested in the summer troll, seine, and gill net fisheries based on age composition data. This report is intended to serve as a data base document, hence interpretation and discussion of the data is limited. Data pertaining to the transboundary river stocks was collected in cooperation with the Canadian Department of Fisheries and Oceans (CDO).

This report compliments prior reports on the abundance, age, sex, and size composition of chinook salmon catches and escapements in Southeastern Alaska in 1981 (McGregor and Van Alen 1987), 1982 (Van Alen and Wood 1983), 1983 (Van Alen, Wood, and Marshall 1986); and 1984 (Van Alen and Olsen 1986). McBride and Wilcock (1983) documented available data on abundance and age compositions of chinook salmon catches and escapements for the years 1961 to 1980. Detailed information on catches and escapements of chinook salmon in the Yakutat area in 1985 are reported in Riffe et al. (*in press*). A complete summary of regulations affecting the region's fisheries may be found in ADF&G (1985a). Copies of Emergency Fishing Orders, management plans and board reports which summarize the troll (ADF&G 1985b) and net (ADF&G 1985c) fishing seasons may be obtained from Alaska Department of Fish and Game (ADF&G) Division of Commercial Fisheries, P.O. Box 20, Douglas, AK. 99824-0020.

The study area consists of the coastal waters and inland drainages of Southeastern Alaska from Cape Suckling on the north to Dixon Entrance on the south, excluding the Yakutat Area inshore set net fisheries in Districts 182, 183, 185, and 192 (Figure 1). The reader is referred to Riffe et al. (*in press*) for detailed data on Yakutat Area catches and escapements in 1985. The region is divided into 17 coastal (101 thru 116, and 181) and five offshore (152, 154, 156, 157, and 189) fishing districts. Chinook salmon were commercially harvested by trollers in all districts, by seiners in Districts 101 to 107, 109, 110, and 112 to 114, by drift gill net fishermen in Districts 101, 106, 108, 111 and 115, and by set gill net fishermen in Districts 182, 183, and 185. Chinook salmon were also commercially caught in the Canadian gill net fishery on the lower Taku and Stikine Rivers and in trap gear on the Annette Island Fishery Reserve. Sport fishing occurs throughout the region but is concentrated around the communities. Subsistence fishing in Alaska was permitted only by Klukwan residents in the Chilkat River. Small subsistence catches were also reported from the Canadian portion of the Stikine River near Telegraph Creek and from Alsek River tributaries.

There are 34 documented chinook salmon producing systems in Southeastern Alaska (including Yakutat). Three are considered major producers with current or potential annual returns of more than 10,000 non-jack chinook salmon (Alsek, Taku, Stikine), nine are considered medium producers with potential returns of 1,500 to 10,000 chinooks, and 22 are considered minor producers with annual returns of less than 1,500 chinooks (ADF&G 1986).

METHODS

Data Sources

Data sources for number, weight, and age, sex, and size composition of chinook salmon catches and escapements in Southeastern Alaska in 1985 were taken from several sources.

Catch Statistics:

Alaskan commercial catch data (number and total weight of chinook salmon sold by gear type, district, and week) was compiled by the Division of Commercial Fisheries, ADF&G. These data were based on computer tabulations of individual sales slips (fish tickets) as of 5 March 1986. Because of the possibility that all imbedded data entry or recording errors were not corrected, subsequent data summaries may differ slightly from those used in this report. Such errors have been generally found to be too small to be of consequence to our estimates of commercial catches by gear type, area, and time. The average weights of troll caught fish were based on dressed (gilled and gutted) fish, but the seine and gill net fisheries landed both dressed and round fish.

Canadian commercial, sport, and food fishery catch statistics for the Taku, Stikine, and Alsek Rivers were obtained from Anonymous (1986). Catch data provided by CDFO were factored into two size classes, small and large fish. A small fish was defined as less than 5 lb, 500 mm in fork length, and ocean-age.2 or less; large fish included all others. No weight data was available for the Canadian Transboundary River fisheries.

Alaskan sport catch was obtained from Mills (1986) mailout questionnaire survey of randomly selected residents holding sport fishing licenses. Alaskan subsistence catch information was tabulated from subsistence use permits returned to the ADF&G.

Escapement Counts:

Several methods were used to obtain estimates of spawning population size. Among them were counts from airplanes, helicopters, and boats, counts made on foot surveys, counts through weirs of upstream migrants, and counts of carcasses which float downstream and are caught by weirs. An effort was made to survey most of the important spawning areas. For several streams multiple surveys were made. We reported only the peak count for these streams. (Detailed survey data are available from ADF&G, Division of Commercial Fisheries, P.O. Box 20, Douglas, Alaska, 99824). Helicopter surveys of transboundary rivers were done cooperatively between CDFO and ADF&G, Division of Sport Fisheries. Ocean-age .0, .1, and .2 chinook salmon ("jacks") were not counted in the aerial surveys because their small size makes them difficult to see and to distinguish from other salmon species.

Eleven "index" rivers are surveyed annually to obtain peak escapement estimates of ocean-age .3 or older fish. The eleven index systems include the three major producers (Alek, Taku, and Stikine), seven medium producers (Situk, Chilkat, Andrews, Unuk, Chickamin, Blossom, Keta), and one minor producer (King Salmon).

Age, Sex, and Length:

Summer troll, seine, and gill net catches of chinook salmon were sampled by department employees stationed at the Southeastern ports of Craig, Klawock, Ketchikan, Petersburg, Sitka, Juneau, Excursion Inlet, Pelican, Hoonah, and Yakutat. Sampling was also conducted at several smaller buying stations and aboard tenders. Sampling of winter troll catches was limited to the ports of Ketchikan, Petersburg, Sitka and Hoonah from 7 October to 24 November 1984 and 3 March to 15 April 1985. Sampling was conducted on fish landed by tenders of both the net and troll fisheries and from actual fishing vessel landings. A small number of chinook salmon was sampled for length and age in conjunction with the onboard troll observer project.

Three scales were obtained from the preferred area of each fish (INPFC 1963), mounted on gum cards and impressions made in cellulose acetate (Clutter and Whitesel 1956). Age was determined by visual examination of scale impressions under moderate (40X) magnification as described by Van Alen and Wood (1983). Ages are reported in European notation. All lengths were measured from mid-eye to fork-of-tail to the nearest half centimeter, with the exception of sport caught fish which were measured from tip-of-snout to fork-of-tail and escapements to Little Tahltan Lake and the Hackett River which were measured from the postorbit of the eye to the hypural plate. Sexual maturation dimorphism was used to determine sex of fish sampled in escapements. Sex was not determined for fish sampled from the commercial catch because secondary sexual characteristics were not present and most fish were dressed at time of delivery.

Some difficulties were encountered in representatively sampling the commercial catch because sampling occurred at processing facilities where fish were usually sorted by size (usually small [<9 lb], medium [9 to 11 lb], and large [≥ 11 lb]) and quality (two grades) into different bins. To avoid obtaining biased samples if the entire delivery could not be sampled, fish were either sampled from each bin in proportion to abundance, or sampled at a predetermined frequency among the fish sorted.

Scale, sex, and length data was obtained from carcasses during foot surveys in all escapements except the test gill net and fishwheel catches on the Taku and Stikine Rivers, the weir sites on Little Tatsamenie and Little Tahltan Lakes, and the Hackett, King Salmon, Klukshu, and Situk Rivers. Samples of the Nakina River escapement were obtained both at a carcass weir and by foot surveying.

In the Nakina River, length and sex was recorded for all carcasses encountered (i.e., a representative sample of the escapement), and scales were subsampled from each 25-mm length and sex group. The number of fish measured within each 25-mm length group was then apportioned into age classes based on the age composition of the fish in that length group. Finally, we summed across length groups within each age and sex stratum which yielded the estimated age composition of the escapement. The weighted mean length was computed for each sex and age class.

The formula used to calculate the age composition (by sex) of the fish measured for length is:

$$\sum_1^j \left(\frac{S_{ij}}{\sum_1^j S_j} * L_j \right) = N_i \quad (1)$$

Where, i = age class
 j = length group
 S_{ij} = number of fish sampled for scale (age) data of age i in length group j
 S_j = number of fish sampled for scale data in length group j
 L_j = number of fish sampled for length data in length group j
 N_i = number of fish sampled for length data of age i

The formula used to calculate weighted mean lengths (by sex) of fish sampled for length within each age class is:

$$\sum_1^j \frac{(N_{ij} * m_j)}{N_i} = \bar{m}_i \quad (2)$$

Where, N_{ij} = number of fish sampled for length data of age i and length group j

m_j = mid-point of length group j

\bar{m}_i = weighted mean length of fish sampled for length data of age i

The formula used to calculate the standard error of mean lengths (by sex) of fish sampled for length of each age class is:

$$\sqrt{\frac{\sum_1^j (n_{ij} * (m_j - \bar{m}_i)^2)}{(\sum_1^j N_j) - 1}} = SE \bar{m}_i \quad (3)$$

Analysis Strata

Several factors determined the development of sampling and analysis strata for age, sex, and length data. First were the logistic and cost considerations as well as trade-offs required to obtain samples over such a broad geographic region. Second was the decision to treat principle gear types (troll, seine, gill net, and sport) separately. Third was to provide for examination of the data for temporal trends. Last was to maintain a one-in-ten chance that our estimate of the percentage of a given age class in each gear-area-time strata did not exceed $\pm 5\%$ of the true (absolute) value. We used the equations of Cochran (1977), corrected for finite population size as appropriate (Appendix Table 1), and computed the desired sample size for a strata assuming seven age classes would occur in the 1985 returns.

Troll:

While district fished is recorded on sales slips, the accuracy of this data is suspect for the summer troll fishery. The troll fleet is highly mobile and it tends to concentrate in areas of fish abundance which often cross statistical district boundaries. For example a popular troll fishing area is Cross Sound and trollers in this area may actually fish in three districts (113, 114, and 116) between landings. Sample data for age and length composition often comes from vessels which have individually fished such district combinations or from a tender servicing similar fisheries. For these reasons, we pooled statistical districts into larger "areas" in order to report harvest and to characterize age and size compositions.

Based upon the results of skipper interviews, we identified four areas for which only minor cross-area reporting occurs during the summer fishery. The four areas (Figure 1) are: (1) Northern Outside composed of Districts 113, 114, 116, 154, 156, 157, 181, and 189; (2) Southern Outside composed of Districts 103, 104, and 152; (3) Northern Inside composed of Districts 109, 110, 111, 112, and 115; and (4) Southern Inside composed of Districts 101, 102, 105, 106, 107, and 108. During the winter troll fishery we included

District 114 in the Northern Inside area because most of the fishing effort is concentrated well inside Icy Straits and this district is more properly an inside fishing district. Catch data by district were also computed, although its use was known to be limited. Hand and power troll catches were combined for analysis of age and length data. Whenever sample sizes permitted, the summer troll data were stratified over time into sample periods. Since the age composition of chinook salmon populations could change throughout the migratory season, the grouping of samples into sample periods was a compromise between obtaining the number of samples necessary to derive a reasonably precise age composition and reducing the bias inherent in grouping sample periods. When fewer than 25 fish were sampled in a weekly strata the data was pooled with an adjacent week. The winter troll data was summarized by quadrant into two time periods, 1 October to 31 December and 1 January to 14 April. Standard errors of the proportions in each strata were calculated by standard binomial formulas:

$$SE_{ij} = \sqrt{\frac{P_{ij}(1 - P_{ij})}{n_j - 1}} \quad (4)$$

Where: i = age class
 j = time period
 P_{ij} = proportion of fish caught of age i in stratum j
 n_j = sample size for stratum j

The age distribution and associated standard errors for the total commercial catch by district and gear type (or escapement by system) were calculated by weighting the estimated sample distribution and its standard error for each sample period by the total catch (or escapement) during the same sample period as follows:

Standard Error of Total for age i =

$$SE_{(Total\ Age_i)} = \sqrt{\frac{\sum_1^j ((SE_{ij})^2 * C_j^2)}{\sum_1^j C_j^2}} \quad (5)$$

Where: C_j = catch of fish in stratum j .

Mean length and its standard error were calculated for each area, period, and age class.

Seine, Gill Net, Trap, Sport, and Subsistence:

Sampling of chinook salmon harvested by seine and gill net gear was intended to accurately describe the age composition of the season's catch by gear type

and district. Samples were generally obtained weekly from each open district. The seine and gill net fleet harvested chinook salmon incidentally to other salmon species, hence net gear landings and season total catches were low. This, plus the tendency for vessel owners to market their chinook catch separately, generated logistic problems in accessing fish for sampling. For this reason we usually obtained fewer samples than desired. Age and length data for the seine and gill net fisheries was summarized by district.

Historically, Annette Island Fishery Reserve trap catches of chinook salmon have been small. The high cost of obtaining samples for age and size composition in relation to harvest level precluded obtaining these data. The age and length data of sport caught chinook collected by Sport Fish Division creel samplers was analyzed by sampling location and, when appropriate, into derby or non-derby strata.

Escapement:

The high cost associated with access to spawning grounds and the low abundance of fish to sample precluded precise characterization of the age, sex, and size composition of Southeastern Alaska chinook salmon spawning populations. Most samples were obtained opportunistically in conjunction with other studies. Often sampling methods or gear used to obtain samples yielded biased estimates of the age, sex, or length composition. A tendency to under sample jacks is suspected for all but the Nakina River collection.

The total natural run escapement to 11 "index" river systems was estimated by expanding survey counts by an estimate of the proportion of fish counted in that tributary and for tributaries not surveyed. The regional escapement total was estimated by expanding the total escapement estimate for index rivers within each of three categories (major, medium, or minor producers) by the number of rivers in that category. The expansion factors used in this report are those presented in ADF&G (1986). While accuracy of these estimates is unknown, they allow cautious comparison of the interannual variability of abundance and distribution of the escapement.

RESULTS AND DISCUSSION

Fishery Overview

In 1985 the troll chinook salmon fishery was managed in accord with the U.S./Canada Salmon Treaty which specified a total all-gear commercial and recreational chinook salmon base catch ceiling of 263,000 (excluding harvest of new hatchery production). The troll fishery catch was limited to 216,000 chinook salmon of which 22,500 occurred during the winter fishery and 194,000 during the summer fishery. To limit the catch, the summer chinook salmon troll fishery was restricted to approximately 34 fishing days, the shortest season since the beginning of the fishery and 11 days less than the 1984 season. Alaskan hatcheries contributed an estimated 13,000 chinook salmon to commercial fisheries in 1985.

Annual sport catches have averaged an estimated 20,415 fish from 1977 to 1985 with 24,858 fish harvested in 1985. A small number of chinook salmon were harvested in subsistence fisheries on the Chilkat (Alaska) and Stikine and

Alsek (Canadian) Rivers and in gillnet fisheries on the Stikine and Taku Rivers.

The harvest of chinook salmon by troll gear was permitted from 1 October 1984 to 15 April 1985 for the winter fishery. The summer fishery was open 3 June through 12 June, 1 July through 22 July, and 25 August to 26 August. Seine fishing was permitted from 30 June to 1 October, drift gillnet fishing was permitted from 16 June to 21 October, and set gillnet fishing was permitted from 10 June to 16 October. Net fisheries are conducted only during specified weekly fishing periods and in select areas. The purse seine catch of chinook salmon was well above average levels during July and early August. To maintain the all gear catch of chinook salmon at the 263,000 fish limit specified in the U.S./Canada salmon treaty and to prevent a reallocation of chinook salmon from other user groups, non-retention of chinook salmon was implemented in the seine fishery during the fishing period beginning 12 August. This was maintained for the remainder of the season.

In Southeastern Alaska salmon fisheries, chinook salmon are usually the least abundant however, for the last several years they have ranked third in terms of value to the fishermen (ADF&G 1987). The high value of chinook salmon is due to the fact that they have consistently been the most valuable species to the troll fishermen. In 1985, most were sold in the dressed/frozen market at a weighted processor average price of \$1.06/lb for gillnet caught fish, \$1.64/lb for seine caught fish, and \$2.40/lb for troll caught fish (personal communication with Elaine Dinneford, ADF&G, Commercial Fisheries Entry Commission, Juneau, Alaska).

Harvest Statistics

The 1985 reported catch in numbers, pounds, and average weights of chinook salmon are presented for the commercial fisheries by gear type, district, and week. Actual catch was higher than reported since some were kept for personal use and some net caught fish, typically less than 711 mm (28 in.), were delivered and reported as pink salmon (*O. gorbuscha*). These factors were considered to be insignificant relative to reported catches.

Numbers and Landed Weight:

A total of 278,922 chinook salmon were harvested in Southeastern Alaska and Yakutat during the 1984-85 winter troll fishery and the 1985 summer troll, seine, gill net (drift and set), trap, sport, and subsistence fisheries (Table 1). Commercial fisheries in Alaska accounted for most (90.4%) of the harvest followed by the sport fishery (8.9%) and the Canadian Transboundary River Fisheries (.7%). Small catches were reported by Alaskan subsistence fisheries. Troll gear harvested 86% of the 252,101 fish harvested by U.S. commercial fishermen with smaller catches by seine, drift gill net, set gill net, and trap gear, respectively. Total and average weight data is presented in Appendix Tables 2 to 11 for the troll, seine, and gill net catches. The average weights of troll caught fish is based on dressed fish, but the seine and gill net fisheries landed both dressed and round fish, so average weight might not be an accurate indicator of size by time or area.

Troll. The winter troll fishery (1 October 1984 to 15 April 1985) harvested 22,486 fish (Table 2). A high proportion of the catch occurred during the

months of October, March, and April in the Northern Outside and Northern Inside areas. The power troll fleet accounted for 80% of the harvest. Some differences are evident in the spatial distribution of power troll catches (Table 3) in relation to hand troll catches (Table 4). The most notable is that the hand troll fleet tended to concentrate in Icy Straits (District 114) while the power troll fleet reported most of the catches from the outer coast of Baranof and Chichagof Islands (District 113).

The summer troll fishery harvested 194,156 chinook salmon (Table 2). The majority were harvested in the Northern Outside area by the power troll fleet (Table 3). The hand troll fleet also reported most of its catch from this area (Table 4). Fish caught in the Northern Outside area had the largest average weight and those in the Southern Inside area had the smallest average weight (Appendix Tables 7 to 9). Nonstatistical comparison (NSC) indicate that average weights increased slightly through the reporting year.

Seine. The majority of the purse seine catch of 23,141 chinook salmon (Table 5) occurred in District 104 (the Noyes Island fishery) but significant catches also occurred in other districts. Purse seine landings of chinook salmon were prohibited after 12 August. The 1985 harvest was 74% of the 1982 record high catch of 31,375 but approximately 12,000 above the 1970-1984 average catch of 10,957. The catches of chinook salmon by the seine fleet is strongly related to catches of pink salmon (Van Alen and Seibel 1986). Average weights of fish tended (NSC) to be highest in the outside districts and lowest in the inside districts (Appendix Table 10).

Drift Gill Net. The drift gill net catch of 10,721 chinook salmon (Table 6) was taken primarily in the first half of the season. Catches were below the long-term average (1970-1984) in Districts 108, and 111, about average in District 106, and above the average in District 101 and 115 (ADF&G 1985c). Directed chinook salmon gill net fisheries were eliminated after 1975, except for limited set gill net fisheries in Yakutat. Average weights varied considerably between weeks and districts (Appendix Table 11). The average weights were highest in District 101. A seasonal decline in average weights was observed in District 101 with the opposite trend seen in District 115 (NSC).

Set Gill Net. The set gill net catch was 1,231 chinook salmon (Riffe et al. *in press*). Chinook salmon were harvested in all Yakutat area fisheries except Tsiu, Yahtse, and Kaliakh. The largest catch (484 fish) was in the Situk fishery.

Trap. The four fish traps operating in the Annette Island Fishery Reserve caught 366 chinook salmon (Table 7). The highest catches occurred in July.

Subsistence. The Chilkat River set net catch of 17 fish was the only reported domestic subsistence harvest in Southeastern Alaska. All subsistence permits were not returned, however, so subsistence catch totals listed on this report possibly underestimate the total subsistence harvest. Canadian subsistence ("Indian food fishery") harvests on the upper Stikine River totaled 887 chinook salmon (94 jacks and 793 adults) and on tributaries of the Alsek River totaled 150 fish (Anonymous 1986).

Canadian In-River Gill Net. The harvest in the Taku River was 350 chinook salmon, and 409 were caught in the Stikine River commercial fishery (Table 8).

Sport. The Alaskan sport catch was an estimated 24,107 large fish and 751 small fish (Table 9) (Mills 1986). The largest catches occurred near Ketchikan and Juneau. Salmon derbies held in May and June in Haines, Petersburg, Wrangell, Sitka, and Ketchikan targeted on chinook salmon. Canadian sport fishermen caught approximately 150 fish in the Alsek River and an unknown, but presumably small, number in the Taku and Stikine Rivers (Anonymous 1986).

Age, Sex, and Length Data:

Age and length statistics are presented by area and period for the troll fishery in Tables 10 thru 13, and by district for the seine (Tables 14 and 15) and drift gill net (Tables 16 and 17) fisheries. Age, size, and length statistics are also presented for the Canadian Taku River fishery (Table 18) and each Alaskan sport fishery (Tables 19 and 20) sampled. Age, sex, and length composition data for Yakutat area set gill net catches are reported in Riffe et al. (*in press*).

Troll. Approximately one-half (52%) of the fish harvested during the 1 March to 14 April period of the winter troll fishery were freshwater-age 0. (Table 10, Figure 2). Fish ocean-age .3 were harvested in the highest proportion, with age 0.3 fish comprising 36% and age 1.3 comprising 30%. Ocean-age .2 fish were harvested in the highest proportion in the Southern areas ($X^2 = 38.5$, $df = 1$, $P < 0.001$) while ocean-age .4 fish were most prevalent in Northern areas ($X^2 = 9.3$, $df = 1$, $.001 < P < 0.005$).

The summer troll catches were predominated by fish aged 0.3, which comprised 30% and 31% of the Northern and Southern Outside area catches, respectively, and 29% and 22% of the Northern and Southern Inside area catches, respectively (Table 11). Fish aged 0.4, 1.2, and 1.3 also comprised a substantial proportion of the harvest. The incidence of fish aged 0. was higher in outside areas (>58%) than in the inside areas (<38%) ($X^2 = 1933.6$, $df = 1$, $P < 0.001$) (Figure 2).

In the summer troll fishery, the incidence of ocean-age .2 fish increased through time ($X^2 = 217.7$, $df = 4$, $P < 0.001$), while the incidence of fish ocean-age .4 decreased through time ($X^2 = 181.4$, $df = 4$, $P < 0.001$). Chinook salmon sampled in conjunction with the troll observer project included more younger-age fish, as both legal and sublegal (<28") fish were sampled (Appendix Tables 12 and 13).

Examination of average length by age data reveals little consistent size differences between areas or through time (Tables 12 and 13). However, in-season growth is evident in the outside areas. For fish of a given ocean age, those freshwater-age 1. were usually larger than those freshwater-age 0. (NSC).

Seine. Small sample sizes of the seine harvest precluded making an in-depth evaluation of age and length compositions by area. Ocean-age .2 and .3 fish dominated catches in all areas, however, fish aged 0.4 comprised 23% of the

harvest in District 104 and 31% in District 114 (Table 14). Freshwater-age 0. fish were harvested in the highest proportion in District 104 (74%), the lowest proportion in the Northern Inside area (36%) (Figure 2), and comprised 68% of the sampled seine-caught fish. The mean length of freshwater-age 1. fish tended to be larger (NSC) than freshwater-age 0. fish for a given ocean age (Table 15). Fish aged 0.2 were smaller in inside versus outside districts (NSC).

Drift Gill Net. Fish aged 1.2 were the principal age class in the gill net harvests, ranging from 42% in District 101 to 72% in District 115 (Table 16). Harvests of fish aged 1.3 were also substantial. The mean length of fish aged 0.3 and 1.2 caught in Districts 111 and 115 were consistently smaller (NSC) than fish of the same age caught in Districts 101 and 106 (Table 17).

Canadian In-River Gill Net. All chinook salmon sampled from the Taku River were freshwater-age 1. fish, and were predominantly age 1.3 (Table 18).

Sport. Freshwater-age 1. fish dominated all sampled sport fisheries (Table 19). Age 1.3 fish predominated in all areas except Haines where age 1.4 was most common. Males tended to be longer (NSC), at a given age, than females (Table 20).

Escapement Statistics

Peak escapement counts for all rivers surveyed are presented along with estimates of the total escapement to the 11 index systems and the entire region. Age, sex, and size composition data for 17 wild stock samples and three hatchery runs is presented.

Numbers of Fish:

Surveys by aerial (fixed wing and helicopter), foot, boat, and weir provided indices of peak escapement for 78 spawning areas (Table 21). Weirs were used to count the escapements to seven natural runs (Little Tahltan Lake, Little Tatsamenie Lake, Hackett River, Nakina River, King Salmon River, Klukshu River, and Situk River) (Appendix Tables 14 to 20), and all three hatcheries Crystal Lake (Crystal Creek), Little Port Walter (Sashin Creek), and Snettisham. The survey data for unweired systems must be used with caution since the proportion of the total run observed within each river varies and is not known; nor is the contribution of "jacks" (ocean-age .0, .1, or .2), which are not counted. Dates of peak escapement counts indicate a slightly later date of spawning for inland versus coastal runs and for southern versus northern runs (Table 21).

The total estimated chinook salmon escapement to all Southeastern Alaska wild stock systems was 37,084 fish (Table 22), a 3% increase from the 1984 estimated total escapement of 36,096 fish (Van Alen and Olsen 1986) and a 28% increase from the 26,817 fish estimated in 1983 (Van Alen, Wood, and Marshall 1986). The estimated total escapement to the major systems increased while the medium and minor systems decreased from 1984.

Age, Sex, and Length:

Freshwater-age 1. fish dominated the escapements of natural runs (Table 23). Fish aged 0. were sampled only from Chickamin River (1 age 0.3 fish of 25 sampled), Cripple Creek (4 age 0.2 and 1 age 0.3 of 36 fish sampled) and Little Tahltan Lake (1 age 0.3 of 389 fish). Males were predominately age 1.1, 1.2, and 1.3, and females were predominantly age 1.3 and 1.4. Males outnumbered females in 12 of the 19 samples. The reader is cautioned, however, that sampling may not be random with respect to size (and sex) of fish except for Nakina River returns, where one and two-ocean fish (jacks) were sampled in proportion to their return. In the Nakina River males comprised 75% of the run, of which 12% were age 1.1 and 37% were age 1.2. Forty-two percent of the females were age 1.3 and 57% were age 1.4. Sample sizes of chinook salmon by sex, age, and length in the Nakina River are presented in Appendix Table 21.

Freshwater-age 1. fish also dominated the hatchery returns (Table 23). From 1980 to 1983 there were no Alaskan hatchery releases of freshwater-age 0. fish. Males were predominately age 1.2 and 1.3, and females age 1.3 and 1.4. Mean length of fish varied considerably between ages, sexes, and samples (Table 24).

Stock Composition

A minimum estimate of the harvest of non-Alaskan chinook salmon can be made based on age composition analysis and coded microwire tag analysis. Results of this and previous studies (Kissner 1973 and 1980; McBride and Wilcock 1983; Van Alen and Marshall 1983; Van Alen and Olsen 1986; and Van Alen, Wood, and Marshall 1986) have shown that virtually all wild run chinook salmon originating in Southeastern Alaska smolt during their second (freshwater-age 1.) year. While we recognize that Alaska's wild stocks contributed some freshwater-age 0. fish to the 1985 harvest, the low incidence of this age class in the escapement samples, coupled with relatively low overall abundance of spawners, lead us to conclude that ignoring the contribution of these fish would not result in significant bias. We can also assume that there was a negligible contribution of freshwater-age 0. fish from Alaska hatcheries since all ocean-age .2 or older fish returning to Alaskan hatcheries prior to 1986 were freshwater-age 1. (Johnson 1986). Therefore, virtually all the 116,594 freshwater-age 0. fish harvested in Alaskan commercial summer troll, seine, and drift gill net fisheries (Table 25) were of non-Alaskan origin. Non-Alaskan fish, therefore, comprised a minimum of 50.8% of the chinook salmon harvested in domestic commercial fisheries the summer of 1985, 9.9% less than in 1984, and 4.0% less than in 1983 (Figure 3). In addition, age composition data (Rogers et al. 1983) indicates that most of the age 1.4 and 1.5 fish harvested originated from Alaskan and British Columbia runs north of the Fraser River. Scale pattern analysis of Alaskan versus non-Alaskan freshwater-age 1. fish in 1982 catches (Van Alen 1985) revealed that non-Alaska fish accounted for approximately half of the freshwater-age 1. fish. If we assume that the stock composition of freshwater-age 1. fish is similar between years 1982 and 1985 then about 50,000 of the approximately 100,000 freshwater-age 1. fish (not of Alaska hatchery origin) caught in the 1985 summer commercial fishery were of non-Alaskan origin bringing the total estimated contribution of non-Alaskan fish of all ages to approximately 166,600 fish, or 73%.

ACKNOWLEDGMENTS

A number of people assisted in the collection of abundance, age, sex, and size data used in this report. Commercial Fisheries Division employees of the Alaska Department of Fish and Game (ADF&G) worked long and irregular hours to collect catch samples. In particular, we thank Keith Pahlke, Karl Hofmeister, Andy McGregor, Demarie Wood, Linnea Neuman, Sue Carter, and Jan Weller for their supervisory and sampling efforts. Escapement counts and age, sex, and size data was also provided for returns to Crystal Lake Hatchery, Andrews Creek and Farragut River by Bob Zorich (ADF&G, FRED Division), to Deer Mountain Hatchery by Carol Denton (ADF&G, FRED Division), and to Little Port Walter by Alex Wertheimer and Jeff Hard (National Marine Fisheries Service, Auke Bay Laboratory). Brian Lynch and his crew collected samples from chinook salmon caught in fishwheel and test gill net gear on the Stikine River. Andy McGregor (ADF&G, Commercial Fisheries Division) and Pat Milligan (Canadian Department of Fisheries and Oceans, Whitehorse) headed up the sampling of chinook salmon caught by gill net and fishwheel gear in the lower Taku River. Ron Josephson (ADF&G, FRED Division) provided samples from Tahini and King Salmon Rivers and Snettisham Hatchery. Paul Kissner (ADF&G, Sport Fish Division) provided the Nakina River data and assisted in obtaining several escapement samples. Peter Etherton (Canadian Department of Fisheries and Oceans, Whitehorse) provided data for some escapements in Canada. Appreciation is extended to John E. Clark and Scott McPherson for their development of computer programs used to summarize the age, sex, and size data in this report. Special thanks go to Eileen Sturrock for her aging of all scales, to Scott McPherson for his supervision of scale ageing activities and to Melinda Rowse for her editing assistance.

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Table 1. Harvest of chinook salmon in Southeastern Alaska, 1985.

Fishery			Number	Percent
Ocean Commercial				
Troll	Hand	Power		
Winter	4,441	18,045	22,486	8.06
Summer	28,771	165,385	194,156	69.61
Seine			23,141	8.30
Gill Net			10,721	3.84
Set Gill Net (Yakutat area)			1,231	0.44
Trap			366	0.13
Subtotal			252,101	90.38
Sport			24,858	8.91
Subsistence			17	0.01
Canadian Transboundary				
Taku Commercial			350	0.13
Stikine Commercial			409	0.15
Stikine Subsistence			887	0.32
Alsek Subsistence			150	0.05
Alsek Sport			150	0.05
Subtotal			1,946	0.70
Total			278,922	100

Table 2. Hand and power troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Northern Inside Districts					Total	
			101	102	105	106	107	108	109	110	111	112	114		115
1984	40	9/30-10/6	25	185	6	2	94	63	144	288			436		1,243
	41	10/7-10/13	63	67		35	77	10	48	1,361	270		1,270		3,201
	42	10/14-10/20	167	105		7	20	53	144	981			232		1,709
	43	10/21-10/27	101	93		8	1	37	110	1,142	91		631		2,214
	44	10/28-11/3	25	117		10		9	118	110	47		104		540
	45	11/4-11/10	48	62		56	32	62	33	199			51		543
	46	11/11-11/17	77	7		7	60	102	112	486	12	73	17		953
	47	11/18-11/24	27	46			19	12	18	229			2		353
	48	11/25-12/1	11	22		8	9	47	1	17	81	28	54		278
	49	12/2-12/8	6	173	50	16	8	66	11	262			54		646
	50	12/9-12/15	11	5	51		21	36	43	21			22		210
	51	12/16-12/22	20	31				8	11	123			16		209
	52	12/23-12/29		2			2	14	1	4			11		34
1985	1	1/1-1/5						20					14		34
	2	1/6-1/12			5			28	10	10			26		79
	3	1/13-1/19		8		5	14	31	43	10	5		61		177
	4	1/20-1/26	3	6		5	3	65	16	12			58		168
	5	1/27-2/2	5	28		18	3	38	24	33		20	85		254
	6	2/3-2/9	4	13	50	42		47	17	28			42		243
	7	2/10-2/16				36	2	26					10		74
	8	2/17-2/23		18		19	2	39	17				44		139
	9	2/24-3/2	4	27	12	48	25	77		6			36		235
	10	3/3-3/9	4	19	51	29	4	47	66	6			39		265
	11	3/10-3/16		18	9	14	37	52	3	2	3		38		176
	12	3/17-3/23	48	17	83	36	17	52	33	19			50	3	358
	13	3/24-3/30	44		386	14	5	32	171	40		62	232		986
	14	3/31-4/6	10	33	312	22	8	36	151	48		28	361		1,009
	15	4/7-4/13			336	16	7	4	176	50			327		916
	16	4/14-4/20			286	23	3	30	358	65			380		1,145
Winter District Total			703	1,102	1,637	476	473	1,143	1,879	5,552	509	211	4,703	3	18,391
Area Total			5,534						12,857						
			Fishery closed except District 183 15 April to 2 June.												0
23	6/2-6/8		346	1,021	641	42	490		2,100	2,681			437		7,758
24	6/9-6/15		663	1,107	1,178	802	711	100	1,900	5,015	205	475			12,156
25	6/16-6/22		5												5
			Fishery closed 13 June to 1 July.												
26	6/23-6/29		40												40
27	6/30-7/6		152	319	266	50	245	40	1,711	721	76	586		120	4,286
28	7/7-7/13		566	1,071	467	320	249	14	1,935	2,568	319	1,128		327	8,964
29	7/14-7/20		425	485	148	182	102	10	824	1,798	105	717		304	5,100
30	7/21-7/27		324	111	60	61	11		900	1,576	62	301		97	3,403
			Fishery closed 23 July to 25 August.												0
31	7/28-8/3														
32	8/4-8/10		23										16		39
33	8/11-8/17		1												1
34	8/18-8/24			3											3
35	8/25-8/31		570	52	36	184	1	13	231	645	5	360		23	2,120
36	9/1-9/7		1										11		12
			Fishery closed 26 August												
Summer District Total			3,116	4,169	2,796	1,641	1,809	177	9,501	15,004	772	4,031		871	43,887
Area Total			13,708						30,179						
Season Total			3,819	5,271	4,433	2,117	2,282	1,320	11,380	20,556	1,281	4,242	4,703	874	62,278

-Continued-

Table 2. Hand and power troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1986 (continued).

Year	Stat. Week	Inclusive Dates	Southern Outside			Northern Outside Districts								Total	GRAND TOTAL							
			103	104	152	113	114	115	154	156	157	181	183			189						
1984	40	9/30-10/6		8		428									436	1,679						
	41	10/7-10/13		37		460									497	3,698						
	42	10/14-10/20	3	24		77		16							120	1,829						
	43	10/21-10/27	24			181		22							227	2,441						
	44	10/28-11/3	42			38									80	620						
	45	11/4-11/10				59									59	602						
	46	11/11-11/17	33			36						12			81	1,034						
	47	11/18-11/24				73						20			93	446						
	48	11/25-12/1		5		103									108	386						
	49	12/2-12/8	3			155									158	804						
	50	12/9-12/15	24			57									81	291						
	51	12/16-12/22	3	5		67									75	284						
	52	12/23-12/29	29			14									43	77						
1985	1	1/1-1/5													0	34						
	2	1/6-1/12				7									7	86						
	3	1/13-1/19	8			37									45	222						
	4	1/20-1/26	79	7		55									141	309						
	5	1/27-2/2	22	59		72									153	407						
	6	2/3-2/9	33	106		26						9			174	417						
	7	2/10-2/16	9	26		39						6			80	154						
	8	2/17-2/23	81	10		17							21		129	268						
	9	2/24-3/2	28	6		54							11		99	334						
	10	3/3-3/9	12	9		41							21		83	348						
	11	3/10-3/16	100	9		11							15		135	311						
	12	3/17-3/23	33	6		50							5		94	452						
	13	3/24-3/30	47	23		267							15		352	1,338						
	14	3/31-4/6	17	30		201							12		260	1,269						
	15	4/7-4/13		17		100							19		136	1,052						
	16	4/14-4/20		5		143								1	149	1,294						
Winter	District Total		630	392	0	2,868		38	0	0	0	0	167	0	4,095	22,486						
	Area Total		1,022			3,073																
			Fishery closed except District 183 15 April to 2 June																			
	23	6/2-6/8	426	6,594	72	4,564	3,151	1,792				115	481	1/	17,195	24,953						
	24	6/9-6/15	573	4,016	219	8,869	3,189	2,116	370			8,388	379	492	391	29,002	41,158					
	25	6/16-6/22				80 Fishery closed 13 June to 1 July														317	322	
	26	6/23-6/29													0	40						
	27	6/30-7/6	521	4,649		21,654	1,686	1,269	993	142	424	456	990	568	33,352	37,638						
	28	7/7-7/13	730	4,462		12,154	2,242	1,460	1,325		944	102	1,378	346	25,143	34,107						
	29	7/14-7/20	713	2,025	15	9,667	1,401	1,256	173		849	405	1,093	204	17,801	22,901						
	30	7/21-7/27	265	592		10,197	973	1,062	788		1,707	453	278		16,315	19,718						
	31	7/28-8/3				11	5 Fishery closed 23 July to 25 August														16	16
	32	8/4-8/10				6	6								12	51						
	33	8/11-8/17				2									2	3						
	34	8/18-8/24		3											3	6						
	35	8/25-8/31	119	636		8,549	615	668	99			150	76	198	11,110	13,230						
	36	9/1-9/7				1	2/ Fishery closed 26 August														1	13
Summer	District Total		3,347	22,977	306	75,754	13,268	9,623	3,748	142	12,427	2,074	4,896	1,707	150,269	194,156						
	Area Total		26,630			123,639																
Season	Total		3,977	23,369	306	78,622	13,268	9,661	3,748	142	12,427	2,074	5,063	1,707	154,364	216,642						

1/ District 183 catches for wk. 17-8, wk. 19-105, wk. 20-67, wk. 21-61, wk. 22-138, the total 379 is included with wk. 23.

2/ 36 fish reported in wk. 38 were added to wk. 35.

Table 3. Power troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Northern Inside Districts					Total	
			101	102	105	106	107	108	109	110	111	112	114		115
1984	40	9/30-10/6	16	153		2	71	41	140	212			357	992	
	41	10/7-10/13	46	67		33	64	5	45	1,267	270		861	2,658	
	42	10/14-10/20	131	90		7	10	34	110	827			113	1,322	
	43	10/21-10/27	101	81			1	32	107	1,090	91		363	1,866	
	44	10/28-11/3	23	103		7			86	95	47		89	450	
	45	11/4-11/10	14	57		51	29	44	28	185			13	421	
	46	11/11-11/17	54	7		7	41	83	112	436	12	73	4	829	
	47	11/18-11/24	27	40			10	7	18	224			1	327	
	48	11/25-12/1	4	2		3				17	81		16	123	
	49	12/2-12/8	6	158	50	2		40	11	254				521	
	50	12/9-12/15		5	51		11	11	43	20			6	147	
	51	12/16-12/22	18	24					9	123				174	
	52	12/23-12/29		2			2		1					5	
1985	1	1/1-1/5												0	
	2	1/6-1/12			5			9	10					24	
	3	1/13-1/19		8		5	12		30		5			60	
	4	1/20-1/26	2	6			3	2	16	12				41	
	5	1/27-2/2	1	20		15		11	21	29		20	23	140	
	6	2/3-2/9	4	13	50	33		15	16	27			26	184	
	7	2/10-2/16				31								31	
	8	2/17-2/23		18				3	17				9	47	
	9	2/24-3/2	4	26	12	45	25	20					4	136	
	10	3/3-3/9	4	19	51	21	1	11	64	6			17	194	
	11	3/10-3/16		18	1	12	34		3		3		30	101	
	12	3/17-3/23	48	17	75	33		13	33	17			11	250	
	13	3/24-3/30	44		353	11	4	1	170	30		62	151	826	
	14	3/31-4/6	8	33	276	19		26	146	43			291	842	
	15	4/7-4/13			287	13	5		155	49			315	824	
	16	4/14-4/20			252	20	3	24	358	47			322	1,026	
Winter District Total			555	967	1,463	370	326	432	1,749	5,010	509	155	3,022	3	14,561
Area Total			4,113						10,448						
			Fishery Closed except District 183 15 April to 2 June.												
23	6/2-6/8		271	762	503		77		1,618	1,546		102		4,879	
24	6/9-6/15		577	888	1,022	510	450	91	1,661	4,030	171	242		3,642	
			Fishery Closed 13 June to 1 July.												
25	6/16-6/22		5											5	
26	6/23-6/29		40											40	
27	6/30-7/6		51	132	218	15	153	19	1,222	295	34	258	45	2,442	
28	7/7-7/13		478	363	218	271	153		1,682	1,663	252	399	76	6,155	
29	7/14-7/20		305	293	81	166	75	2	622	994	40	247	49	2,874	
30	7/21-7/27		277	63	33	53	5		704	1,140	28	112		2,415	
			Fishery Closed 23 July to 25 August.												
31	7/28-8/3													0	
32	8/4-8/10		23									15		38	
33	8/11-8/17													0	
34	8/18-8/24													0	
35	8/25-8/31		523	33	30	166		10	138	392		50		1,342	
			Fishery Closed 26 August.												
36	9/1-9/7		1									1		2	
Summer District Total			2,551	3,134	2,105	1,181	913	122	7,647	10,060	525	1,426	0	170	29,834
Area Total			10,006						19,828						
Season Total			3,106	4,101	3,568	1,551	1,239	554	9,396	15,070	1,034	1,581	3,022	173	44,395

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Table 3. Power troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1985 (continued).

Year	Stat. Week	Inclusive Dates	Southern Outside			Northern Outside Districts								Total	GRAND TOTAL	
			103	104	152	113	114	116	154	156	157	181	183			189
1984	40	9/30-10/6		2		362									364	1,356
	41	10/7-10/13		25		426									451	3,109
	42	10/14-10/20	3	5		68		16							92	1,414
	43	10/21-10/27	6			158		22							186	2,052
	44	10/28-11/3	38			32									70	520
	45	11/4-11/10				53									53	474
	46	11/11-11/17	33			29									62	891
	47	11/18-11/24				67									67	394
	48	11/25-12/1				101									101	224
	49	12/2-12/8	3			146									149	670
	50	12/9-12/15	14			57									71	218
	51	12/16-12/22		5		67									72	246
	52	12/23-12/29	16			14									30	35
1985	1	1/1-1/5													0	0
	2	1/6-1/12				6									6	30
	3	1/13-1/19				37									37	97
	4	1/20-1/26	70	3		50									123	164
	5	1/27-2/2	22	59		72									153	293
	6	2/3-2/9	26	106		24									156	340
	7	2/10-2/16	9	26		39									74	105
	8	2/17-2/23	81	10		14									105	152
	9	2/24-3/2	27	6		20									53	189
	10	3/3-3/9	12	9		33									54	248
	11	3/10-3/16	93	9		10									112	213
	12	3/17-3/23	24	6		48									78	328
	13	3/24-3/30	27	23		214									264	1,090
	14	3/31-4/6	17	30		197									244	1,086
	15	4/7-4/13		17		98									115	939
	16	4/14-4/20		5		137									142	1,168
Winter District Total			521	346	0	2,579		38	0	0	0	0	0	0	3,484	18,045
Area Total			867			2,617										
			Fishery Closed except District 183 15 April to 2 June													
23	6/2-6/8		237	5,937	72	4,033	1,781	1,480		115		122 1/		13,777	18,656	
24	6/9-6/15		344	3,789	219	8,433	2,485	2,015	370		8,388	369	442	391	27,245	36,887
25	6/16-6/22					80	Fishery Closed 13 June to 1 July					129		209	214	
26	6/23-6/29														0	40
27	6/30-7/6		346	4,169		20,831	943	1,086	993	142	424	456	806	568	30,764	33,206
28	7/7-7/13		471	4,099		11,451	1,372	1,317	1,291		944	102	881	346	22,274	28,429
29	7/14-7/20		489	1,808	15	9,086	816	1,138	173		849	405	816	204	15,799	18,673
30	7/21-7/27		145	525		9,842	633	978	780		1,707	453	205		15,268	17,683
31	7/28-8/3					11	Fishery Closed 23 July to 25 August							11	11	
32	8/4-8/10					6	6								12	50
33	8/11-8/17					2									2	2
34	8/18-8/24														0	0
35	8/25-8/31		97	595		7,951	393 2/	645	99		150	61	198	9,544	10,886	
36	9/1-9/7					1								1	1	3
Summer District Total			2,129	20,922	306	71,727	8,429	8,014	3,706	142	12,427	2,064	3,333	1,707	134,906	164,740
Area Total			23,357			111,549										
Season Total			2,650	21,268	306	74,306	8,429	8,052	3,706	142	12,427	2,064	3,333	1,707	138,390	182,785

1/ District 183 catches for wk. 19-39, wk. 20-54, wk. 21-8, wk. 22-19, the total 120 is included with wk. 23.

2/ 36 fish reported in wk. 38 were added to wk. 35.

Table 4. Hand troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Northern Inside Districts					Total	
			101	102	105	106	107	108	109	110	111	112	114		115
1984	40	9/30-10/6	9	32	6		23	22	4	76			79	251	
	41	10/7-10/13	17			2	13	5	3	94			409	543	
	42	10/14-10/20	36	15			10	19	34	154			113	387	
	43	10/21-10/27		12		8		5	3	52			268	348	
	44	10/28-11/3	2	14		3		9	32	15			15	90	
	45	11/4-11/10	34	5		5	3	18	5	14			38	122	
	46	11/11-11/17	23				19	19		50			13	124	
	47	11/18-11/24		6			9	5		5			1	26	
	48	11/25-12/1	7	20		5	9	47	1		28		38	155	
	49	12/2-12/8		15		14	8	26		8			54	125	
	50	12/9-12/15	11				10	25		1			16	63	
	51	12/16-12/22	2	7				8	2				16	35	
	52	12/23-12/29						14		4			11	29	
	1985	1	1/1-1/5					20					14	34	
		2	1/6-1/12					19			10		26	55	
		3	1/13-1/19					2	31	13	10		61	117	
4		1/20-1/26	1			5		63				58	127		
5		1/27-2/2	4	8		3	3	27	3	4		62	114		
6		2/3-2/9				9		32	1	1		16	59		
7		2/10-2/16				5	2	26				10	43		
8		2/17-2/23				19	2	36				35	92		
9		2/24-3/2		1		3		57		6		32	99		
10		3/3-3/9				8	3	36	2			22	71		
11		3/10-3/16			8	2	3	52		2		8	75		
12		3/17-3/23			8	3	17	39		2		39	108		
13		3/24-3/30			33	3	1	31	1	10		81	160		
14		3/31-4/6	2		36	3	8	10	5	5	28	70	167		
15		4/7-4/13			49	3	2	4	21	1		12	92		
16		4/14-4/20			34	3		6		18		58	119		
Winter	District Total		148	135	174	106	147	711	130	542	0	56	1,681	0	3,830
	Area Total		1,421						2,409						
	Fishery Closed except District 1&3 15 April to 2 June.														
23	6/2-6/8	75	259	138	42	413	482	1,135		335			2,879		
24	6/9-6/15	86	219	156	292	261	9	239	985	34	233		2,514		
25	6/16-6/22	Fishery Closed 13 June to 1 July.													
26	6/23-6/29														
27	6/30-7/6	101	187	48	35	92	21	489	426	42	328	75	1,844		
28	7/7-7/13	88	108	249	49	96	14	253	905	67	729	251	2,609		
29	7/14-7/20	120	192	67	16	27	8	202	804	65	470	255	2,226		
30	7/21-7/27	47	48	27	8	6		96	436	34	189	97	988		
31	7/28-8/3	Fishery Closed 23 July to 25 August.													
32	8/4-8/10														
33	8/11-8/17	1													
34	8/18-8/24		3												
35	8/25-8/31	47	19	6	18	1	3	93	253	5	310	23	778		
36	9/1-9/7	Fishery Closed 26 August.													
Summer	District Total		565	1,035	691	460	896	55	1,854	4,944	247	2,605	0	701	14,053
	Area Total		3,702						10,351						
Season Total			713	1,170	865	566	1,043	766	1,984	5,486	247	2,661	1,681	701	17,883

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Table 4. Hand troll harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1 October 1984 to 26 August 1985 (continued).

Year	Stat. Week	Inclusive Dates	Southern Outside			Northern Outside Districts									Total	GRAND TOTAL	
			103	104	152	113	114	116	154	156	157	181	183	189			
1984	40	9/30-10/6		6		66										72	323
	41	10/7-10/13		12		34										46	589
	42	10/14-10/20		19		9										28	415
	43	10/21-10/27	18			23										41	389
	44	10/28-11/3	4			6										10	100
	45	11/4-11/10				6										6	128
	46	11/11-11/17				7							12			19	143
	47	11/18-11/24				6							20			26	52
	48	11/25-12/1		5		2										7	162
	49	12/2-12/8				9										9	134
	50	12/9-12/15	10													10	73
	51	12/16-12/22	3													3	38
	52	12/23-12/29	13													13	42
1985	1	1/1-1/5														0	34
	2	1/6-1/12				1										1	56
	3	1/13-1/19	8													8	125
	4	1/20-1/26	9	4		5										18	145
	5	1/27-2/2														0	114
	6	2/3-2/9	7			2							9			18	77
	7	2/10-2/16											6			6	49
	8	2/17-2/23				3							21			24	116
	9	2/24-3/2	1			34							11			46	145
	10	3/3-3/9				8							21			29	100
	11	3/10-3/16	7			1							15			23	98
	12	3/17-3/23	9			2							5			16	124
	13	3/24-3/30	20			53							15			88	248
	14	3/31-4/6				4							12			16	183
	15	4/7-4/13				2							19			21	113
	16	4/14-4/20				6							1			7	126
Winter	District Total		109	46	0	289	0	0	0	0	0	0	167	0		611	4,441
	Area Total		155			456											
	23	6/2-6/8	189	657		531	1,370	312					359	1/	3,418	6,297	
	24	6/9-6/15	229	227		436	704	101				10	50		1,757	4,271	
	25	6/16-6/22													108	108	
	26	6/23-6/29													0	0	
	27	6/30-7/6	175	480		823	743	183					184		2,588	4,432	
	28	7/7-7/13	259	363		703	870	143	34				497		2,869	5,678	
	29	7/14-7/20	224	217		581	585	118					277		2,002	4,228	
	30	7/21-7/27	120	67		355	340	84	8				73		1,047	2,035	
	31	7/28-8/3													5	5	
	32	8/4-8/10													0	1	
	33	8/11-8/17													0	1	
	34	8/18-8/24		3											3	6	
	35	8/25-8/31	22	41		598	222	23					15		921	1,699	
	36	9/1-9/7													0	10	
Summer	District Total		1,218	2,055	0	4,027	4,839	964	42	0	0	10	1,563	0		28,771	
	Area Total		3,273			11,445											
Season Total			1,327	2,101	0	4,316	4,839	964	42	0	0	10	1,730	0	611	33,212	

1/ District 183 catches for wk. 17-8, wk. 19-66, wk. 20-13, wk. 21-53, wk. 22-119, the total 259 is included with wk. 23.

Table 5. Purse seine harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1985.

Stat. Week	Date	Districts											Total	
		101	102	103	104	105	106	107	109	110	112	113		114
27	6/30-7/6										347			347
28	7/7-7/13	4			1,343						607			1,954
29	7/14-7/20	306	1,800		927					569	952	180	104	4,838
30	7/21-7/27	358	99		3,297					570	311	1,680	416	6,731
31	7/28-8/3	241	38		3,689				182	735	190	212	56	5,351
32	8/4-8/10	197	225		2,540	14			142	283	133	317		3,851
33 1/	8/11-8/17	7	18	4					2		5			36
34	8/18-8/24				30	2								32
35	8/25-8/31										1			1
District Totals		1,113	2,100	4	11,826	16	0	0	326	2,157	2,554	2,389	576	23,141

1/ Fishery closed to the taking of chinook salmon after 12 August (Stat. Weeks 33, 34, 35).

Table 6. Gill net harvest of chinook salmon in Southeastern Alaska by district and statistical week, 1985.

Stat Week	Date	District					Total	
		101	102	106	108	111		
25	6/16-6/22	663		150		522	1,499	
26	6/23-6/29	715		268		473	1,988	
27	6/30-7/6	440		110		423	1,436	
28	7/7-7/13	227		306		274	1,679	
29	7/14-7/20	166		253		229	868	
30	7/21-7/27	271		311		239	900	
31	7/28-8/3	173		152	15	208	658	
32	8/4-8/10	61	11	34		69	366	
33	8/11-8/17	38		11		84	214	
34	8/18-8/24	35		18	1	20	326	
35	8/25-8/31	274		53		18	436	
36	9/1-9/7	5		22	1	43	124	
37	9/8-9/14	10		3	3	17	93	
38	9/15-9/21	3		3		31	72	
39	9/22-9/28			4		1	13	
40	9/29-10/5						31	
41	10/6-10/12						17	
42	10/13-10/19						1	
Total		3,081	11	1,698	20	2,651	3,260	10,721

Table 7. Commercial trap harvest of chinook salmon on the Annette Island Indian Fishery Reserve, Southeastern Alaska District 101-28, 1985.

Stat. Week	Inclusive Dates	Catch	Poundage	Average Weight
27	30 Jun-06 Jul	107	1,930	18.0
28	07 Jul-13 Jul	145	2,430	16.8
29	14 Jul-20 Jul	53	888	16.8
30	21 Jul-27 Jul	32	479	15.0
31	28 Jul-03 Aug	23	347	15.1
32	04 Aug-10 Aug	6	105	17.5
Total		366	6,179	16.9

Table 8. Canadian inriver harvest of chinook salmon from the Alsek, Taku, and Stikine Rivers, 1985.

Stat. Week	Ending Date	Stikine River													Stikine Total	Canadian Total		
		Alsek 1/			Taku Commercial			Lower River Commercial			Upper River Commercial			Upper River Subsistence				
		Total	Large	Small 2/	Total	Large	Small	Total	Large	Small	Total	Large	Small	Total				
24	June 15											54	3	57	57	57		
25	22		0	0	0	0	0	0			0	119	14	133	133	133		
26	29		140	7	147	75	29	104	50	0	50	118	22	140	294	441		
27	July 06		26	0	26	closed			No Fishing 3/			0	63	0	63	63	89	
28	13		59	0	59	78	19	97	No Fishing			0	0	1	9	106	165	
29	20		47	5	52	74	35	109	12	0	12	250	6	256	377	429		
30	27		36	12	48	17	7	24	0	0	0	101	9	110	134	182		
31	Aug 03		10	0	10	6	0	6	0	0	0	45	9	54	60	70		
32	10		7	0	7	5	1	6	0	0	0	33	30	63	69	76		
33	17		0	0	0	0	0	0	0	0	0	2	0	2	2	2		
34	24		1	0	1	1	0	1				0	0	0	1	2		
35	31		0	0	0	0	0	0				0	0	0	0	0		
36	Sept 07		0	0	0	0	0	0						0	0	0		
Totals		300	326	24	350	256	91	347	62	0	62	793	94	887	1296	1946		

1/ Includes 150 subsistence and 150 sport caught.

2/ Canadian data provided by size class, small fish were defined as less than 5 pounds, less than 500 mm, and aged .2 or less.

3/ High water conditions.

Table 9. Sport harvest of chinook salmon in Southeastern Alaska, 1985. (Data from Mills 1986)

Area	Small < 711 mm	Large > 711 mm	Total
Ketchikan	187	5,983	6,170
Prince of Wales Island	37	497	534
Petersburg-Wrangell	31	4,029	4,060
Sitka	37	1,393	1,430
Juneau	424	9,952	10,376
Haines-Skagway	34	2,007	2,041
Glacier Bay	1	185	186
Yakutat	0	61	61
Total	751	24,107	24,858

Table 10. Age composition of the winter troll harvest of chinook salmon by area, 1985^{1/}.

Area	Statistic	Brood Year and Age Class								Total
		1982 0.2	1981 0.3	1981 1.2	1980 0.4	1980 1.3	1979 0.5	1979 1.4	1978 1.5	
Northern 2/ Outside	Sample Number		41	3	28	31	1	16		120
	Percent		34.2	2.5	23.3	25.8	0.8	13.3		100.0
	Std. Error		4.3	1.4	3.9	4.0		3.1		
	Number		286	21	196	217	7	112		839
Southern Outside	Sample Number	1	65	16	13	38	1	6		140
	Percent	0.7	46.4	11.4	9.3	27.1	0.7	4.3		100.0
	Std. Error		4.2	2.7	2.5	3.8		1.7		
	Number	2	143	35	29	84	2	13		308
Northern Inside	Sample Number	3	182	19	92	168	2	82	2	550
	Percent	0.5	33.1	3.5	16.7	30.5	0.4	14.9	0.4	100.0
	Std. Error	0.3	2.0	0.8	1.6	2.0	0.3	1.5	0.3	
	Number	14	861	90	435	794	9	388	9	2,600
Southern Inside	Sample Number	2	293	76	80	241	5	58		755
	Percent	0.3	38.8	10.1	10.6	31.9	0.7	7.7		100.0
	Std. Error	0.2	1.8	1.1	1.1	1.7	0.3	1.0		
	Number	6	832	216	227	684	14	165		2,144
All Districts	Sample Number	6	581	114	213	478	9	162	2	1,565
	Percent	0.4	36.0	6.1	15.0	30.2	0.6	11.5	0.2	100.0
	Std. Error	0.2	1.3	0.6	1.0	1.2	0.2	0.9	0.1	
	Number	22	2,122	362	887	1,779	32	678	9	5,891

1/ Includes catches from 3 March to 14 April only.

2/ District 114 is included in the Northern inside area.

Table 11. Age composition of the summer troll fishery harvest of chinook salmon by area and period, 1985.

		Brood Year and Age Class										
		1982	1982	1981	1981	1980	1980	1980	1979	1979	1978	Total
		0.2	1.1	0.3	1.2	0.4	1.3	2.2	0.5	1.4	1.5	
Northern Outside	Statistical Weeks	23 - 24 (June 2 - 15)										
	Sample Number	7		180	53	131	112		4	50	1	538
	Percent	1.3		33.5	9.9	24.3	28.8		0.7	9.3	0.2	100.0
	Std. Error	0.5		2.0	1.3	1.9	1.8		0.4	1.3		
	Number	364		9,354	2,754	6,887	5,820		206	2,598	52	27,957
	Statistical Weeks	27 - 28 (June 30 - July 13)										
	Sample Number	22	3	207	100	255	150	1	10	30		778
Percent	2.8	0.4	26.6	12.9	32.8	19.3	0.1	1.3	3.9		100.0	
Std. Error	0.6	0.2	1.6	1.2	1.7	1.4		0.4	0.7			
Number	1,250	170	11,761	5,682	14,489	8,523	57	568	1,785		44,285	
Statistical Week	29 (July 14 - 20)											
Sample Number	43		329	130	184	209			36		931	
Percent	4.6		35.3	14.0	19.8	22.4			3.9		100.0	
Std. Error	0.7		1.6	1.1	1.3	1.4			0.6			
Number	638		4,822	1,906	2,697	3,064			528		13,647	
Statistical Week	30 (July 21 - 27)											
Sample Number	34	3	247	142	174	197		10	35		842	
Percent	4.0	0.4	29.3	16.9	20.7	23.4		1.2	4.2		100.0	
Std. Error	0.7	0.2	1.6	1.3	1.4	1.5		0.4	0.7			
Number	585	52	4,249	2,443	2,993	3,389		172	602		14,485	
Statistical Week	35 (August 25 - 31)											
Sample Number	169	2	337	234	117	148		6	17	2	1,032	
Percent	16.4	0.2	32.7	22.7	11.3	14.3		0.6	1.6	0.2	100.0	
Std. Error	1.2	0.1	1.5	1.3	1.0	1.1		0.2	0.4	0.1		
Number	1,595	19	3,181	2,208	1,104	1,397		57	160	19	9,740	
Combined Periods (Percentages are weighted by period catches)												
Sample Number	275	8	1,300	659	861	816	1	30	168	3	4121	
Percent	4.0	0.2	30.3	13.6	25.5	20.2	0.1	0.9	5.1	0.1	100.0	
Std. Error	0.3	0.1	0.9	0.6	0.9	0.8		0.2	0.4	0.1		
Number	4,424	241	33,367	14,993	28,090	22,193	57	1,085	5,593	71	110,834	

-Continued-

Table 11. Age composition of the summer troll fishery harvest of chinook salmon by area and period, 1985 (continued).

		Brood Year and Age Class									
		1982	1982	1981	1981	1980	1980	1979	1979	1978	Total
		0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5	
Southern Outside	Statistical Weeks	23 - 24		(June 2 - June 15)							
	Sample Number	7		75	36	45	86	1	23		273
	Percent	2.6		27.5	13.2	16.5	31.5	0.4	8.4		100.0
	Std. Error	1.0		2.7	2.1	2.2	2.8		1.7		
	Number	385		3,268	1,569	1,962	3,749	44	1,003		11,900
	Statistical Weeks	27 - 28		(June 30 - July 13)							
	Sample Number	41		258	146	139	149	4	28	2	767
	Percent	5.3		33.6	19.0	18.1	19.4	0.5	3.7	0.3	100.0
	Std. Error	0.8		1.7	1.4	1.4	1.4	0.3	0.7	0.2	
	Number	554		3,486	1,972	1,078	2,013	54	378	27	10,362
	Statistical Week	29		(July 14 - 20)							
	Sample Number	13		118	72	76	71	1	21		372
	Percent	3.5		31.7	19.4	20.4	19.1	0.3	5.6		100.0
	Std. Error	1.0		2.4	2.1	2.1	2.0		1.2		
	Number	96		875	533	562	525	7	155		2,753
	Statistical Week	30		(July 21 - 27)							
	Sample Number	14		67	29	25	19		4		158
	Percent	8.9		42.4	18.4	15.8	12.0		2.5		100.0
	Std. Error	2.3		3.9	3.1	2.9	2.6		1.3		
	Number	76		363	157	136	103		22		857
Statistical Week	35		(August 25 - 31)								
Sample Number	58	2	100	66	37	36	3	6	1	309	
Percent	18.8	0.6	32.4	21.4	12.0	11.7	1.0	1.9	0.3	100.0	
Std. Error	2.2	0.5	2.7	2.3	1.8	1.8	0.6	0.8			
Number	142	5	245	161	90	88	7	15	2	755	
Combined Periods (Percentages are weighted by period catches)											
Sample Number	133	2	618	349	322	361	9	82	3	1,879	
Percent	4.4	0.1	38.9	16.5	17.4	24.3	0.4	5.9	0.1	100.0	
Std. Error	0.6	0.1	1.4	1.1	1.2	1.4	0.2	0.8	0.1		
Number	1,173	5	8,237	4,392	4,628	6,478	112	1,573	29	26,627	

-Continued-

Table 11. Age composition of the summer troll fishery harvest of chinook salmon by area and period, 1985 (continued).

		Brood Year and Age Class									
		1982	1982	1981	1981	1980	1980	1979	1979	1978	Total
		0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5	
Northern Inside	Statistical Weeks	23 - 24	(June 2 - June 15)								
	Sample Number	2		145	65	46	247		37	1	543
	Percent	0.4		26.7	12.0	8.5	45.5		6.8	0.2	100.0
	Std. Error	0.3		1.9	1.4	1.2	2.1		1.1		
	Number	71		5,115	2,293	1,623	8,711		1,385	35	19,153
	Statistical Weeks	27 - 28	(June 30 - July 13)								
	Sample Number	3		46	25	17	62	1	5		159
	Percent	1.9		28.9	15.7	10.7	39.0	0.6	3.1		100.0
	Std. Error	1.1		3.6	2.9	2.5	3.9		1.4		
	Number	253		3,882	2,110	1,435	5,233	84	422		13,419
	Statistical Week	29	(July 14 - 20)								
	Sample Number	2		31	12	5	42		3		95
	Percent	2.1		32.6	12.6	5.3	44.2		3.2		100.0
	Std. Error	1.5		4.8	3.4	2.3	5.1		1.8		
	Number	108		1,600	650	271	2,277		163		5,149
Statistical Week	30	(July 21 - 27)									
Sample Number		1	49	40	5	46		2		143	
Percent		0.7	34.3	28.0	3.5	32.2		1.4		100.0	
Std. Error			4.0	3.8	1.5	3.9		1.0			
Number		27	1,306	1,065	133	1,225		53		3,809	
Statistical Week	35	(August 25 - 31)									
Sample Number	14		15	18		16				63	
Percent	22.2		23.8	28.6		25.4				100.0	
Std. Error	5.3		5.4	5.7		5.5					
Number	418		447	537		477				1,879	
Combined Periods (Percentages are weighted by period catches)											
Sample Number	21	1	286	160	73	413	1	47	1	1003	
Percent	2.0	0.1	28.6	15.3	8.0	41.3	0.2	4.5	0.1	100.0	
Std. Error	0.5		1.6	1.2	1.0	1.7		0.7			
Number	850	27	12,430	6,655	3,462	17,923	84	1,943	35	43,409	

-Continued-

Table 11. Age composition of the summer troll fishery harvest of chinook salmon by area and period, 1985 (continued).

		Brood Year and Age Class								
		1982	1982	1981	1981	1980	1980	1979	1978	
		0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5	Total
Southern Inside	Statistical Weeks	23	- 24	(June 2 - June 15)						
	Sample Number	1		85	88	21	102	19		316
	Percent	0.3		26.9	27.8	6.6	32.3	6.0		100.0
	Std. Error			2.5	2.5	1.4	2.6	1.3		
	Number	21		1,749	1,810	432	2,098	391		6,501
	Statistical Weeks	27	- 28	(June 30 - July 13)						
	Sample Number	8		21	60	23	19	2		133
	Percent	6.0		15.8	45.1	17.3	14.3	1.5		100.0
	Std. Error	2.1		3.2	4.3	3.3	3.0	1.1		
	Number	226		594	1,695	650	537	57		3,759
	Statistical Week	29		(July 14 - 20)						
	Sample Number	15		42	87	6	26		1	177
	Percent	8.5		23.7	49.2	3.4	14.7		0.6	100.0
	Std. Error	2.1		3.2	3.8	1.4	2.7			
	Number	115		321	663	46	199		8	1,352
	Statistical Week	30		(July 21 - 27)						
	Sample Number	13		17	56	9	14	1		110
	Percent	11.8		15.5	50.9	8.2	12.7	0.9		100.0
	Std. Error	3.1		3.5	4.8	2.6	3.2			
	Number	67		88	289	46	72	5		567
Statistical Week	35		(August 25 - 31)							
Sample Number	35	1	8	55		1			100	
Percent	35.0	1.0	8.0	55.0		1.0			100.0	
Std. Error	4.8		2.7	5.0						
Number	308	9	68	470		9			856	
Combined Periods (Percentages are weighted by period catches)										
Sample Number	72	1	173	346	59	162	22	1		836
Percent	5.6	0.1	21.6	37.8	9.0	22.4	3.5	0.1		100.0
Std. Error	0.7		1.6	1.9	1.2	1.6	0.7			
Number	729	9	2,820	4,927	1,174	2,915	453	8		13,035

Table 12. Length at age for chinook salmon caught in the winter troll fishery by area, 1985.

		Brood Year and Age Class							
		1982	1981	1981	1980	1980	1979	1979	1978
		0.2	0.3	1.2	0.4	1.3	0.5	1.4	1.5
Northern 2/ Outside	Avg. Length		719.4	731.0	820.3	795.7	894.0	868.7	
	Std. Error		7.4	19.9	10.3	11.1		18.0	
	Sample Size		41	3	28	31	1	16	
Southern Outside	Avg. Length	620.0	682.4	644.1	807.3	715.1	850.0	830.8	
	Std. Error		5.6	8.5	15.3	10.8		30.8	
	Sample Size	1	65	16	13	38	1	6	
Northern Inside	Avg. Length	631.3	713.5	656.0	818.1	754.4	734.5	869.6	891.5
	Std. Error	3.8	3.9	6.5	5.6	5.4	120.5	15.0	23.5
	Sample Size	3	182	19	92	168	2	82	2
Southern Inside	Avg. Length	605.0	693.1	636.4	807.2	720.6	885.2	811.0	
	Std. Error	15.0	2.9	3.3	7.9	5.1	31.9	10.5	
	Sample Size	2	293	76	80	241	5	58	
Combined Areas (Unweighted)									
All Fish	Avg. Length	620.7	700.2	643.2	813.6	736.9	848.8	847.1	891.5
	Std. Error	6.8	2.1	3.1	4.2	3.5	34.2	9.0	23.5
	Sample Size	6	581	114	213	478	9	162	2

1/ Includes catches from 3 March to 14 April only.

2/ District 114 is included in the Northern inside area.

Table 13. Length at age for chinook salmon caught in the summer troll fishery, by area and period, 1985.

		Brood Year and Age Class									
		1982	1982	1981	1981	1980	1980	1980	1979	1979	1978
		0.2	1.1	0.3	1.2	0.4	1.3	2.2	0.5	1.4	1.5
Northern Outside	Statistical Weeks	23	- 24	(June 2 - 15)							
	Avg. Length	659.2		744.7	681.7	826.7	779.2		847.5	842.4	965.0
	Std. Error	8.9		5.0	7.1	6.2	6.2		41.2	13.0	
	Sample Size	6		180	53	130	112		4	49	1
	Statistical Weeks	27	- 28	(June 30 - July 13)							
	Avg. Length	656.1	558.3	746.6	680.5	857.2	780.4	705.0	955.0	894.5	
	Std. Error	7.3	71.7	4.2	4.2	3.6	6.5		28.9	13.1	
	Sample Size	22	3	207	100	255	150	1	10	30	
	Statistical Week	29		(July 14 - 20)							
	Avg. Length	673.7		763.7	688.0	861.3	774.3			895.1	
	Std. Error	6.9		3.3	4.3	5.3	5.4			13.5	
	Sample Size	42		328	130	184	209			36	
	Statistical Week	30		(July 21 - 27)							
	Avg. Length	664.9	433.3	764.5	688.0	857.2	789.9		936.5	874.6	
	Std. Error	6.0	36.1	3.5	3.4	4.3	4.8		17.4	12.7	
	Sample Size	34	3	247	142	174	197		10	35	
	Statistical Week	35		(August 25 - 31)							
	Avg. Length	667.2	692.5	773.1	690.1	868.4	789.5		941.7	889.4	990.0
	Std. Error	3.6	127.5	3.4	3.7	5.7	6.0		27.2	12.3	30.0
	Sample Size	169	2	337	234	117	140		6	17	2
Combined Periods (Unweighted)											
	Avg. Length	666.9	545.0	760.9	687.1	855.0	782.6	705.0	931.8	874.7	981.7
	Std. Error	2.7	52.2	1.7	1.9	2.2	2.6		14.4	6.3	19.2
	Sample Size	273	8	1,299	659	860	816	1	30	167	3

-Continued-

Table 13. Length at age for chinook salmon caught in the summer troll fishery, by area and period, 1985 (continued).

		Brood Year and Age Class								
		1982	1982	1981	1981	1980	1980	1979	1979	1978
		0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5
Southern Outside	Statistical Weeks	23	- 24	(June 2 - 15)						
	Avg. Length	666.7		752.2	687.3	795.0	792.5	810.0	846.5	
	Std. Error	15.2		8.1	8.0	8.7	7.4		23.4	
	Sample Size	7		75	36	45	86	1	23	
	Statistical Weeks	27	- 28	(June 30 - July 13)						
	Avg. Length	659.8		758.3	672.6	836.4	771.1	936.3	889.1	845.0
	Std. Error	6.1		3.5	3.8	5.5	4.9	16.5	13.0	35.0
	Sample Size	41		258	146	139	148	4	28	2
	Statistical Week	29		(July 14 - 20)						
	Avg. Length	655.1		747.8	670.7	863.8	777.1	905.0	888.9	
	Std. Error	6.3		5.8	5.7	7.5	7.7		10.9	
	Sample Size	13		118	72	76	71	1	21	
	Statistical Week	30		(July 21 - 27)						
	Avg. Length	690.8		764.7	674.5	797.9	816.3		840.0	
	Std. Error	16.2		10.2	10.3	14.9	15.7		33.2	
	Sample Size	14		66	29	24	19		4	
Statistical Week	35		(August 25 - 31)							
Avg. Length	662.4	735.0	774.2	699.3	847.1	808.3	868.3	860.0	910.0	
Std. Error	6.2	60.0	7.0	7.6	10.6	12.2	30.3	14.2		
Sample Size	57	2	97	65	33	35	3	6	1	
Combined Periods (Unweighted)										
Avg. Length	664.1	735.0	755.4	678.9	835.3	783.4	896.1	872.6	866.7	
Std. Error	3.9	60.0	2.6	2.8	3.8	3.5	18.6	8.7	29.6	
Sample Size	132	2	614	348	317	359	9	82	3	

-Continued-

Table 13. Length at age for chinook salmon caught in the summer troll fishery, by area and period, 1985 (continued).

		Brood Year and Age Class								
		1982	1982	1981	1981	1980	1980	1979	1979	1978
		0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5
Northern Inside	Statistical Weeks	23 - 24		(June 2 - 15)						
	Avg. Length	652.5		698.4	675.7	789.0	733.9		838.9	1,106.0
	Std. Error	22.5		4.3	5.7	10.0	4.4		13.9	
	Sample Size	2		145	65	46	247		36	1
	Statistical Weeks	27 - 28		(June 30 - July 13)						
	Avg. Length	650.0		706.0	672.2	858.6	722.3	770.0	820.2	
	Std. Error	14.4		9.8	7.2	12.5	8.2		63.2	
	Sample Size	3		46	25	17	62	1	5	
	Statistical Week	29		(July 14 - 20)						
	Avg. Length	685.0		707.7	668.3	809.2	707.2		854.0	
	Std. Error	35.0		8.7	8.8	30.6	6.9		39.5	
	Sample Size	2		31	12	5	42		3	
	Statistical Week	30		(July 21 - 27)						
	Avg. Length		395.0	706.7	676.1	773.8	727.4		836.5	
	Std. Error			7.5	7.6	48.3	8.7		8.5	
	Sample Size		1	49	40	5	45		2	
	Statistical Week	35		(August 25 - 31)						
	Avg. Length	685.6		776.3	698.7		791.3			
	Std. Error	10.2		14.8	11.5		10.0			
	Sample Size	14		15	18		16			
Combined Periods (Unweighted)										
	Avg. Length	677.3	395.0	706.1	677.3	805.6	730.9	770.0	837.8	1,106.0
	Std. Error	8.2		3.4	3.5	8.5	3.3		12.8	
	Sample Size	21	1	286	160	73	412	1	46	1

-Continued-

Table 13. Length at age for chinook salmon caught in the summer troll fishery, by area and period, 1985 (continued).

		Brood Year and Age Class							
		1982	1982	1981	1981	1980	1980	1979	1978
		0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5
Southern Inside	Statistical Weeks	23	- 24	(June 2 - June 15)					
	Avg. Length	610.0		697.5	658.2	770.2	781.3	809.9	
	Std. Error			4.6	4.5	15.8	6.8	18.0	
	Sample Size	1		85	88	21	102	19	
	Statistical Weeks	27	- 28	(June 30 - July 13)					
	Avg. Length	648.8		766.7	638.8	881.3	751.1	927.5	
	Std. Error	9.5		18.2	3.2	18.7	27.9	37.5	
	Sample Size	8		21	60	21	19	2	
	Statistical Week	29		(July 14 - 20)					
	Avg. Length	637.3		707.5	650.4	782.5	739.2		895.0
	Std. Error	9.1		9.2	5.2	27.9	11.8		
	Sample Size	15		42	87	6	26		1
	Statistical Week	30		(July 21 - 27)					
	Avg. Length	639.2		728.8	666.8	856.7	748.8	875.0	
	Std. Error	8.9		20.4	6.6	16.9	23.0		
	Sample Size	13		17	56	9	13	1	
	Statistical Week	35		(August 25 - 31)					
	Avg. Length	638.1	645.0	689.4	661.8		630.0		
	Std. Error	7.9		25.3	5.5				
	Sample Size	35	1	8	55		1		
Combined Periods (Unweighted)									
	Avg. Length	639.0	645.0	711.0	654.9	826.1	767.4	823.5	895.0
	Std. Error	4.7		4.8	2.3	11.8	6.2	17.5	
	Sample Size	72	1	173	346	57	161	22	1

Table 14. Age composition of the purse seine harvest of chinook salmon by area, 1985.

		Brood Year and Age Class										
		1983	1982	1982	1981	1981	1980	1980	1979	1979	1978	Total
		0.1	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5	
	Statistical Weeks 28 - 33 (July 7 - August 17)											
District 101	Sample Number				5	1		6	1	2		15
	Percent				33.3	6.7		40.0	6.7	13.3		100.0
	Std. Error				12.6			13.1		9.1		
	Number				371	74		446	74	148		1113
	Statistical Weeks 28 - 33 (July 7 - August 17)											
District 104	Sample Number		102	2	380	71	224	125	10	51	1	966
	Percent		10.6	0.2	39.3	7.3	23.2	12.9	1.0	5.3	0.1	100.0
	Std. Error		1.0	0.1	1.6	0.8	1.4	1.1	0.3	0.7		
	Number		1249	24	4654	869	2742	1530	122	624	12	11826
	Statistical Weeks 31 - 33 (July 28 - August 17)											
District 109	Sample Number	1	7	10	1	15						34
	Percent	2.9	20.6	29.4	2.9	44.1						100.0
	Std. Error		7.0	7.9		8.6						
	Number	10	67	96	10	143						326
	Statistical Weeks 29 - 32 (July 14 - August 10)											
District 110	Sample Number		2	4	9	12		7				34
	Percent		5.9	11.8	26.5	35.3		20.6				100.0
	Std. Error		4.1	5.6	7.7	8.3		7.0				
	Number		127	254	571	761		444				2157
	Statistical Weeks 27 - 33 (June 30 - August 17)											
District 112	Sample Number		19	10	5	24	1	3		1		63
	Percent		30.2	15.9	7.9	38.1	1.6	4.8		1.6		100.0
	Std. Error		5.8	4.6	3.4	6.2		2.7				
	Number		770	405	203	972	41	122		41		2554
	Statistical Weeks 29 - 32 (July 14 - August 10)											
District 113	Sample Number	1	13	3	22	10	5	18	1	2		75
	Percent	1.3	17.3	4.0	29.3	13.3	6.7	24.0	1.3	2.7		100.0
	Std. Error		4.4	2.3	5.3	4.0	2.9	5.0		1.9		
	Number	32	414	96	700	319	159	573	32	64		2389
	Statistical Weeks 29 - 31 (July 14 - August 3)											
District 114	Sample Number		1		7		5			3		16
	Percent		6.3		43.8		31.3			18.8		100.0
	Std. Error				12.8		12.0			10.1		
	Number		36		252		180			108		576

Table 15. Length at age for chinook salmon caught in the purse seine fishery by area, 1985.

		Brood Year and Age Class									
		1983	1982	1982	1981	1981	1980	1980	1979	1979	1978
		0.1	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5
District 101	Statistical Weeks	28 - 33 (July 7 - August 17)									
	Avg. Length				789.0	650.0		836.2	895.0	810.0	
	Std. Error				8.3			29.2		15.0	
	Sample Size				5	1		6	1	2	
District 104	Statistical Weeks	28 - 33 (July 7 - August 17)									
	Avg. Length		671.8	540.5	799.0	698.3	869.8	825.5	969.0	874.6	1010.0
	Std. Error		6.9	49.5	3.2	8.5	4.4	5.7	22.4	9.2	
	Sample Size		102	2	379	71	222	124	10	51	1
District 109	Statistical Weeks	31 - 33 (July 28 - August 17)									
	Avg. Length	350.0	533.6	419.0	640.0	560.0					
	Std. Error		18.8	18.8		10.1					
	Sample Size	1	7	10	1	15					
District 110	Statistical Weeks	29 - 32 (July 14 - August 10)									
	Avg. Length		565.0	405.0	705.0	646.3		748.6			
	Std. Error		15.0	20.2	12.5	17.3		18.0			
	Sample Size		2	4	9	12		7			
District 112	Statistical Weeks	27 - 33 (June 30 - August 17)									
	Avg. Length		525.3	428.5	661.0	552.9	995.0	738.3		920.0	
	Std. Error		10.5	28.4	52.1	16.0		23.3			
	Sample Size		19	10	5	24	1	3		1	
District 113	Statistical Weeks	29 - 33 (July 14 - August 17)									
	Avg. Length	380.0	616.5	415.0	807.9	700.5	914.0	812.1	920.0	890.0	
	Std. Error		23.8	38.8	8.4	15.6	17.4	20.6		15.0	
	Sample Size	1	13	3	21	10	5	17	1	2	
District 114	Statistical Weeks	29 - 31 (July 14 - August 3)									
	Avg. Length		575.0		810.7		876.0			923.3	
	Std. Error				28.6		36.8			47.6	
	Sample Size		1		7		5			3	

Table 16. Age composition of the gill net harvest of chinook salmon by district, 1985.

		Brood Year and Age Class									
		1983	1982	1982	1981	1981	1980	1980	1979		
		0.1	0.2	1.1	0.3	1.2	0.4	1.3	1.4	Total	
District 101	Statistical Weeks	25	- 38	(June 16 - Sept. 21)							
	Sample Number		5	1	2	36	2	33	6	85	
	Percent		5.9	1.2	2.4	42.4	2.4	38.8	7.1	100.0	
	Std. Error		2.6		1.7	5.4	1.7	5.3	2.8		
	Number		181	36	72	1,307	72	1,196	217	3,081	
District 105	Statistical Weeks	25	- 39	(June 16 - Sept. 28)							
	Sample Number		6		1	48	1	9	4	69	
	Percent		8.7		1.4	69.6	1.4	13.0	5.8	100.0	
	Std. Error		3.4			5.6		4.1	2.8		
	Number		148		25	1,181	25	221	98	1,698	
District 111	Statistical Weeks	25	- 39	(June 16 - Sept. 28)							
	Sample Number		8	1	9	89	1	73	28	209	
	Percent		3.8	0.5	4.3	42.6	0.5	34.9	13.4	100.0	
	Std. Error		1.3		1.4	3.4		3.3	2.4		
	Number		101	13	114	1,129	13	926	355	2,651	
District 115	Statistical Weeks	25	- 42	(June 16 - October 19)							
	Sample Number		2	52	3	7	324	59	3	450	
	Percent		0.4	11.6	0.7	1.6	72.0	13.1	0.7	100.0	
	Std. Error		0.3	1.5	0.4	0.6	2.1	1.6	0.4		
	Number		14	377	22	51	2,347	427	22	3,260	

Table 17. Length at age for chinook salmon caught in the gill net fisheries by district, 1985.

		Brood Year and Age Class							
		1983	1982	1982	1981	1981	1980	1980	1979
		0.1	0.2	1.1	0.3	1.2	0.4	1.3	1.4
	Statistical Weeks	25 - 38	(June 16 - Sept. 21)						
District	Avg. Length	538.0	445.0	708.5	618.3	797.5	766.4	932.5	
101	Std. Error	26.6		58.5	8.5	37.5	11.5	44.0	
	Sample Size	5	1	2	36	2	33	6	
	Statistical Weeks	25 - 39	(June 16 - Sept. 28)						
District	Avg. Length	579.2		645.0	614.5	785.0	710.6	892.5	
106	Std. Error	22.5			12.5		30.1	23.1	
	Sample Size	6		1	48	1	9	4	
	Statistical Weeks	25 - 39	(June 16 - Sept. 28)						
District	Avg. Length	551.9	410.0	682.8	577.5	685.0	725.9	841.8	
111	Std. Error	11.4		18.0	4.8		8.9	10.1	
	Sample Size	8	1	9	89	1	73	28	
	Statistical Weeks	25 - 42	(June 16 - October 19)						
District	Avg. Length	352.5	566.6	405.0	638.6	581.8	663.1	765.0	
115	Std. Error	7.5	7.7	40.7	30.0	2.7	7.6	150.2	
	Sample Size	2	52	3	7	321	59	3	

Table 18. Age and length composition of the Canadian commercial gill net harvest of chinook salmon on the Taku River, 1985.

Brood Year and Age Class				

	1980	1979	1978	

	1.3	1.4	1.5	Total

Statistical Weeks	26	- 28	(June 23 - July 13)	
Male				
Sample Number	10	3		13
Percent	41.7	12.5		54.2
Std. Error	10.3	6.9		10.4
Number	136	41		177
Avg. Length	730.2	865.3		
Std. Error	28.9	30.6		
Female				
Sample Number	6	4	1	11
Percent	25.0	16.7	4.2	45.8
Std. Error	9.0	7.8		10.4
Number	81	54	14	149
Avg. Length	731.0	813.0	820.0	
Std. Error	27.6	9.0		
All Fish				
Sample Number	16	7	1	24
Percent	66.7	29.2	4.2	100.0
Std. Error	9.8	9.5		
Number	217	95	14	326
Avg. Length	730.5	835.4	820.0	
Std. Error	20.2	16.4		

Table 19. Age composition of chinook salmon from select Southeastern Alaska sport fisheries, 1985.

Fishery (Sampling Dates)		Brood Year and Age Class										Total	
		1983		1982		1981		1980		1979			1978
		1.0	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5		
Heines Derby and Cruise 27 April-11 July	Males	Sample Number					1	41		64	2	188	
		Percent					0.9	38.0		59.3	1.9		
		Std. Error					0.6	3.1		3.1	0.9		
	Females	Sample Number				1	1		36		87	4	129
		Percent				0.0	0.8		27.9		67.4	3.1	
		Std. Error				0.6	0.6		2.0		3.0	1.1	
	Total	Sample Number				1	1	1	82		159	6	258
		Percent				0.4	0.4	0.4	32.8		63.6	2.4	
		Std. Error				0.4	0.4	0.4	3.0		3.0	1.0	
Juneau Derby 9 August-11 August	Males	Sample Number			1	2	14		28		1	46	
		Percent				4.3	30.4		68.9		2.2		
		Std. Error				0.0	1.0		1.9		0.6		
	Females	Sample Number				9	15		51		3	78	
		Percent				11.5	19.2		65.4		3.8		
		Std. Error				1.2	1.5		1.0		0.7		
	Total	Sample Number		2	7	48	171	7	410	1	22	668	
		Percent		0.3	1.0	7.2	25.6	1.0	61.4	0.1	3.3		
		Std. Error		0.2	0.4	1.0	1.7	0.4	1.9	0.1	0.7		
Juneau Coast Guard Derby 19 July-21 July	Males	Sample Number				2	1		7			18	
		Percent				20.0	10.0		70.0				
		Std. Error				6.3	4.7		7.2				
	Females	Sample Number				1	1		5			7	
		Percent				14.3	14.3		71.4				
		Std. Error				5.5	5.5		7.1				
	Total	Sample Number				5	6		27		2	40	
		Percent				12.5	15.0		67.5		5.0		
		Std. Error				5.2	5.6		7.4		3.4		
Juneau Cruise 28 April- 28 September	Males	Sample Number		2		14	17		43		14	98	
		Percent		2.2		15.6	18.9		47.8		15.6		
		Std. Error		0.7		1.7	1.0		2.3		1.7		
	Females	Sample Number		1		10	10	3	118		10	1	169
		Percent		1.1		5.9	10.7	1.8	69.8		10.7	0.6	
		Std. Error		0.5		1.1	1.4	0.6	2.1		1.4	0.4	
	Total	Sample Number	2	6	2	51	73	9	284		44	1	472
		Percent	0.4	1.3	0.4	10.8	15.5	1.9	60.2		9.3	0.2	
		Std. Error	0.3	0.5	0.3	1.4	1.7	0.6	2.3		1.3	0.2	

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Table 19. Age composition of chinook salmon from select Southeastern Alaska sport fisheries, 1985 (continued).

Fishery (Sampling Dates)		Brood Year and Age Class									Total	
		1982		1981		1980		1979		1978		
		0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5		
Ketchikan Creel 20 May-30 June	Males	Sample Number	1	2	34	3	33		14	2	87	
		Percent	1.1	2.2	30.2	3.4	37.1		15.7	2.2		
		Std. Error	0.8	1.1	3.5	1.3	3.5		2.6	1.1		
	Females	Sample Number		1	5	3	46		18		73	
		Percent		1.4	6.8	4.1	63.8		24.7			
		Std. Error		0.8	1.8	1.4	3.5		3.1			
	Total	Sample Number	1	2	7	48	7	90		36	2	193
		Percent	0.5	1.0	3.6	24.9	3.6	46.6		18.7	1.0	
		Std. Error	0.5	0.7	1.3	3.1	1.3	3.6		2.8	0.7	
Wrangell Creel 15 April-29 June	Males	Sample Number		1	3		6		20	2	32	
		Percent		3.1	9.4		18.8		62.5	6.3		
		Std. Error			1.6	2.7		3.6		4.5		2.2
	Females	Sample Number			2		7		18	1	28	
		Percent			7.1		25.0		64.3	3.6		
		Std. Error			2.4		4.8		4.4	1.7		
	Total	Sample Number			1	7		26		79	3	116
		Percent			0.9	6.0		22.4		68.1	2.6	
		Std. Error			0.9	2.2		3.9		4.3	1.5	
Petersburg Creel 20 April- 27 September	Males	Sample Number	1	5	4	3	32		20		65	
		Percent	1.5	7.7	6.2	4.6	49.2		30.8			
		Std. Error	0.9	1.9	1.7	1.5	3.6		3.3			
	Females	Sample Number		5	4	4	48	1	41		103	
		Percent		4.9	3.9	3.9	46.6	1.0	39.8			
		Std. Error		1.6	1.4	1.4	3.6	0.7	3.6			
	Total	Sample Number	1	1	12	9	8	91	1	65	2	190
		Percent	0.5	0.5	6.3	4.7	4.2	47.9	0.5	34.2	1.1	
		Std. Error	0.5	0.5	1.8	1.5	1.5	3.6	0.5	3.4	0.7	

Table 20. Length at age (by sex) for chinook salmon from select Southeastern Alaska sport fisheries, 1985.

Fishery (Sampling Dates)	Brood Year and Age Class										Total	
	1983		1982		1981		1980		1979			1978
	1.0	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5		
Haines Derby and Creel 27 April-11 July	Males	Avg. Length					848.0	821.0		999.0	1093.0	
		Std. Error						14.0		13.0	71.0	
		Sample Size					1	41		64	2	108
	Females	Avg. Length			936.0	762.0		880.0		956.0	988.0	
		Std. Error						16.0		7.0	42.0	
		Sample Size			1	1		36		87	4	129
Total 2/	Avg. Length			936.0	762.0	848.0	849.0		971.0	1023.0		
	Std. Error						11.0		7.0	39.0		
	Sample Size			1	1	1	82		159	6	250	
Juneau Derby 9 August-11 August	Males	Avg. Length		445.0	810.0	721.0		825.0		905.0		
		Std. Error			30.0	9.0		12.0				
		Sample Size		1	2	14		28		1		46
	Females	Avg. Length			723.0	730.0		790.0		887.0		
		Std. Error			18.0	10.0		7.0		17.0		
		Sample Size			9	15		51		3		78
Total	Avg. Length	653.0	461.0	765.0	718.0	807.0	795.0	965.0	881.0			
	Std. Error	128.0	21.0	8.0	4.0	16.0	3.0		10.0			
	Sample Size	2	7	48	171	7	410	1	22		668	
Juneau Coast Guard Derby 19 July-21 July	Males	Avg. Length			705.0	735.0		800.0				
		Std. Error			45.0			11.0				
		Sample Size			2	1		7				10
	Females	Avg. Length			749.0	546.0		772.0				
		Std. Error						19.0				
		Sample Size			1	1		5				7
Total	Avg. Length			746.0	681.0		778.0		788.0			
	Std. Error			37.0	30.0		9.0		77.0			
	Sample Size			5	6		27		2		40	
Juneau Creel 20 April- 28 September	Males	Avg. Length	658.0		825.0	721.0		817.0		954.0		
		Std. Error	42.0		18.0	13.0		12.0		30.0		
		Sample Size	2		14	17		43		14		90
	Females	Avg. Length	795.0		780.0	721.0	851.0	800.0		920.0	960.0	
		Std. Error			19.0	13.0	64.0	5.0		13.0		
		Sample Size	1		10	18	3	118		18	1	169
Total	Avg. Length	278.0	703.0	470.0	787.0	715.0	867.0	799.0	923.0	960.0		
	Std. Error	8.0	23.0	40.0	9.0	5.0	29.0	4.0	13.0			
	Sample Size	2	6	2	51	73	9	284	44	1	472	

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Table 20. Length at age (by sex) for chinook salmon from select Southeastern Alaska sport fisheries, 1985 (continued).

Fishery (Sampling Dates)	Brood Year and Age Class											
			1982		1981		1980		1979		1978	Total
			0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	1.5	
Ketchikan Creel 20 May-30 June	Males	Avg. Length		560.0	910.0	739.0	955.0	903.0		1075.0	1150.0	
		Std. Error			70.0	8.0	8.0	17.0		21.0	65.0	
		Sample Size		1	2	34	3	33		14	2	89
	Females	Avg. Length			800.0	690.0	870.0	896.0		990.0		
		Std. Error				52.0	75.0	11.0		20.0		
		Sample Size			1	5	3	46		10		73
Total	Avg. Length	710.0	565.0	841.0	724.0	929.0	894.0		1027.0	1150.0		
	Std. Error		5.0	35.0	9.0	34.0	9.0		16.0	65.0		
	Sample Size	1	2	7	40	7	90		36	2	193	
Wrangell Creel 15 April-29 June	Males	Avg. Length			700.0	700.0		906.0		1040.0	1137.0	
		Std. Error				15.0		42.0		15.0	14.0	
		Sample Size			1	3		6		20	2	32
	Females	Avg. Length				730.0		800.0		945.0	893.0	
		Std. Error				15.0		21.0		13.0		
		Sample Size				2		7		10	1	20
Total	Avg. Length			700.0	723.0		869.0		1003.0	1056.0		
	Std. Error				11.0		15.0		10.0	82.0		
	Sample Size			1	7		26		79	3	116	
Petersburg Creel 20 April- 27 September	Males	Avg. Length		350.0	804.0	760.0	1056.0	812.0		950.0		
		Std. Error			24.0	59.0	49.0	13.0		10.0		
		Sample Size		1	5	4	3	32		20		65
	Females	Avg. Length			840.0	706.0	940.0	823.0	970.0	952.0		
		Std. Error			35.0	20.0	22.0	9.0		12.0		
		Sample Size			5	4	4	40	1	41		103
Total	Avg. Length	610.0	350.0	812.0	734.0	900.0	824.0	970.0	966.0	1063.0		
	Std. Error			21.0	27.0	20.0	7.0		10.0	47.0		
	Sample Size	1	1	12	9	0	91	1	65	2	190	

- 1/ All measurements were made from tip-of-snout to fork-of-tail.
 2/ Totals include unsexed fish.

Table 21. Peak escapement estimates and weir counts for chinook salmon in Southeastern Alaska and transboundary rivers, 1985. Abbreviations for types of surveys are: (A) aerial (fixed wing), (B) boat, (F) foot, (H) helicopter, and (W) weir.

Stream Name	Stream Number	Count	Method	Date	Organization
Keta River	101-30-030	624	(H)	8/29	ADF&G 1/
Martin River	101-30-060	69	(F)	9/12	ADF&G
Humbback Creek	101-30-083	1	(F)	8/24	ADF&G
Carroll Creek	101-45-078	23	(F)	8/23	ADF&G
Ketchikan Creek	101-47-025	576	(?)	7/25	ADF&G
Wilson River	101-55-020	420	(H)	8/29	ADF&G
Blossom River	101-55-040	709	(H)	8/24	ADF&G
Big Goat Creek	101-60-030	44	(F)	9/6	ADF&G
Chickamin River:					
Chickamin River	101-71-004	745	(H)	8/15	ADF&G
Barrier Creek	101-71-004	129	(H)	8/15	ADF&G
South Fork	101-71-004	169	(H)	8/7	ADF&G
Falls Creek	101-71-004	2	(H)	7/31	ADF&G
Indian Creek	101-71-004	125	(H)	8/7	ADF&G
Butler Creek	101-71-004	93	(H)	8/7	ADF&G
Leduc Creek	101-71-004	8	(H)	8/7	ADF&G
Clear Falls Creek	101-71-004	12	(H)	8/7	
Clear Creek	101-71-006	37	(H)	8/7	ADF&G
Humpy Creek	101-71-008	50	(H)	8/29	ADF&G
King Creek	101-71-014	377	(H)	8/29	ADF&G
Grace Creek	101-71-050	12	(F)	8/14	ADF&G
Portage Creek	101-71-063	3	(F)	9/6	ADF&G
Herman Creek	101-75-005	19	(F)	9/7	ADF&G
Grant Creek	101-75-010	55	(F)	9/7	ADF&G
Unuk River:					
Eulachon River	101-75-015	293	(F)	8/14	ADF&G
Sawmill Creek	101-75-030	13	(H)	8/7	ADF&G
Sawmill Slough	101-75-030	4	(H)	8/15	ADF&G
Lake Creek	101-75-030	22	(H)	8/7	ADF&G
Gene Lake Creek	101-75-030	547	(F)	8/15	ADF&G
Cripple Creek	101-75-030	284	(F)	8/9	ADF&G
Klahini River	101-75-050	20	(F)	9/7	ADF&G
Aiken Cove	102-30-087	1	(A)	9/24	ADF&G
Blackbear Creek	103-60-031	2	(F)	9/21	ADF&G
Crystal Creek	106-44-031	1,800	(A)	7/15	ADF&G
Aaron Creek	107-40-024	102	(A)	8/30	ADF&G
Toe Lake Creek	107-40-047	14	(F)	9/7	ADF&G
Harding River	107-40-049	243	(F)	9/7	ADF&G
Bradfield River:					
North Fork	107-40-052	58	(A)	8/30	ADF&G
East fork	107-40-053	85	(A)	8/30	ADF&G
Eagle River	107-40-055	179	(F)	9/7	ADF&G

-Continued-

Table 21. Peak escapement estimates and weir counts for chinook salmon in Southeastern Alaska and transboundary rivers, 1985. Abbreviations for types of surveys are: (A) aerial (fixed wing), (B) boat, (F) foot, (H) helicopter, and (W) weir (continued).

Stream Name	Stream Number	Count	Method	Date	Organization
Stikine River:					
North Arm Creek	100-40-010	45	(A)	8/8	ADF&G
Goat Creek	100-40-017	18	(A)	8/13	ADF&G
Andrews Creek	100-40-020	320	(F)	8/11	ADF&G
Tahltan River	100-00-100	1,490	(H)	8/6	ADF&G
Beatty River	100-00-115	147	(H)	8/2	ADF&G
Little Tahltan River	100-00-120	3,462 2/	(W)	8/10	ADF&G
Sashin Creek	109-10-006	1,912 3/	(W)		NMFS 4/
Falls Creek	109-20-007	4	(W)	8/19	ADF&G
Farragut River	110-14-007	3	(A)	8/15	ADF&G
Chuck River	110-32-009	20	(A)	8/1	ADF&G
King Salmon River	111-17-010	251 5/	(W)	7/28	ADF&G
Taku River:					
Nakina River	111-32-220	2,647	(H)	8/5	ADF&G
Kowatua Creek	111-32-240	699	(H)	8/26	CDFO
Tatsamenie River	111-32-255	848	(H)	8/26	CDFO 6/
Little Tatsamenie Lk	111-32-254	332	(W)	9/8	CDFO
Hackett River	111-32-260	434	(W)	8/21	CDFO
Nahlin River	111-31-270	2,236	(H)	7/25	ADF&G
Tseta Creek	111-32-275	303	(H)	8/1	ADF&G
Dudidontu River	111-32-280	475	(H)	8/1	ADF&G
Snettisham	111-33-	48	(W)	8/25	ADF&G
Chilkat River:					
Big Boulder Creek	115-32-054	70	(H)	8/12	ADF&G
Little Boulder Creek	115-32-055	13	(F)	8/20	ADF&G
31 Mile Creek	115-32-057	7	(F)	8/23	ADF&G
Kelsall River	115-32-064	75	(H)	8/12	ADF&G
Tahini River	115-32-068	53	(H)	8/4	ADF&G
Stonehouse Creek	115-32-301	50	(H)	8/12	ADF&G
Alsek River:					
Kluckshu River	182-30-020	1,450	(W)	10/11	CDFO
Takhnanni River	182-30-043	184	(H)	8/3	CDFO
Blanchard River	182-30-050	232	(H)	8/3	CDFO
Dangerous River	182-60-010	0	(A)	8/14	ADF&G
Situk River	182-70-010	1,902	(W)	8/16	ADF&G

- 1/ ADF&G - Alaska Department of Fish and Game.
2/ Includes 316 jacks.
3/ Includes 916 jacks.
4/ NMFS - National Marine Fishery Service.
5/ Includes 47 jacks.
6/ CDFO - Canadian Department of Fisheries and Oceans.

Table 22. Estimated total escapement of chinook salmon to Southeastern Alaska and transboundary river natural runs, 1985.

System/ Tributary	Index Escapement	Tributary Expansion Factor	Aerial Survey Expansion Factor	System Total Escapement	Category Expansion Factor	Total Escapement
Major Systems (3 Total)						
Aisek (Klukshu)	1,457	1/0.64	1	2277		
Take (Nakina, Nahlin)	4,883	1/0.6	1/0.75	10,851		
Stikine (Little Tahltan)	1,598 1/	1/0.25	1/0.625	10,227		
Major Systems Subtotal:				23,355	1	23,355
Medium Systems (12 Total)						
Situk	1,521	1	1	1,521		
Chilkat/Big Boulder	70	1/0.14	1/0.80	625		
Andrews Creek	319	1	1/0.625	510		
Behm Canal Systems						
Chickamin	957	1	1/0.625	1,531		
Blossom	709	1	1/0.625	1,134		
Keta	624	1	1/0.625	998		
Unuk 2/	1,163	1	1/0.625	1,861		
Medium Systems Subtotal:				8,190	9/7	10,517
Minor Systems (22 Total)						
King Salmon	117 1/	1	1/0.8	146		
Minor Systems Subtotal:				146	22/1	3,212
Total All Systems:						37,084

1/ Aerial survey count.

2/ Unuk total includes counts from Cripple Creek, Genes Lake, Eulachon Creek, Clear Creek, Lake Creek, and Sawmill Creek.

Table 23. Age composition of chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985.

System (Stream Number)			Brood Year and Age Class							Total		
			1983	1982	1982	1981	1981	1980	1980		1979	1978
			1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5	
Wild Runs												
Blossum Creek 101-55-040	Males	N				12			9	7		28
		x				23.1			17.3	13.5		53.8
	Females	N				1	1	12	10			24
		x				1.9	1.9	23.1	19.2			46.2
	Total	N				13	1	21	17			52
		x				25.0	1.9	46.4	32.7			100.0
Chickamin River 101-71-004	Males	N				1		1				2
		x				4.0		4.0				8.0
	Females	N			1	1		12	9			23
		x			4.0	4.0	0.0	48.0	36.0			92.0
	Total	N			1	2		13	9			25
		x			4.0	8.0		52.0	36.0			100.0
Cripole Creek 101-75-300	Males	N	1	2	1	7		4	2			17
		x	3.0	6.1	3.0	21.2		12.1	6.1			51.5
	Females	N	2			1		9	4			16
		x	6.1			3.0		27.3	12.1			48.5
	Total	N	4	2	1	8		14	7			36
		x	11.1	5.6	2.8	22.2		38.9	19.4			100.0
Genes Lake Creek 101-75-	Males	N		4		6		2				12
		x		16.7		25.0		8.3				50.0
	Females	N				1		11				12
		x				4.2		45.8				50.0
	Total	N		4		7		13				24
		x		16.7		29.2		54.2				100.0
Stikine River 1/ 100-40-015	Males	N		4		10		1	1			16
		x		20.0		50.0		5.0	5.0			80.0
	Females	N						2	2			4
		x						10.0	10.0			20.0
	Total	N		4		10		3	3			20
		x		20.0		50.0		15.0	15.0			100.0

-Continued-

Table 23. Age composition of chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class									Total
		1983	1982	1982	1981	1981	1980	1980	1979	1978	
		1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5	
Wild Runs											
Little Tahltan River Live weir samples 100-00-120	Males	N		3		4		15	62		84
		X		1.3		1.7		6.5	26.7		36.2
	Females	N			1	1		28	118		148
		X			0.4	0.4		12.1	50.9		63.8
	Total	N		3	1	5		43	180		232
		X		1.3	0.4	2.2		18.5	77.6		100.0
Little Tahltan River Carcass samples 100-00-120	Males	N		45		16		19	21		101
		X		28.7		10.2		12.1	13.4		64.3
	Females	N				2		11	43		56
		X				1.3		7.0	27.4		35.7
	Total	N		45		18		30	64		157
		X		28.7		11.5		19.1	40.8		100.0
Little Tahltan River Live and carcass 100-00-120	Males	N		48		20		34	83		185
		X		12.3		5.1		8.7	21.3		47.6
	Females	N			1	3		39	161		204
		X			0.3	0.8		18.0	41.4		52.4
	Total	N		48	1	23		73	244		389
		X		12.3	0.3	5.9		18.8	62.7		100.0
Falls Lake 109-20-013	Males	N				2		1			3
		X				50.0		25.0			75.0
	Females	N				1					1
		X				25.0					25.0
	Total	N				3		1			4
		X				75.0		25.0			100.0
Farragut River 110-14-007	Males	N				2	1	20	19		42
		X				3.5	1.8	35.1	33.3		73.7
	Females	N						3	12		15
		X						5.3	21.1		26.3
	Total	N				2	1	23	31		57
		X				3.5	1.8	40.4	54.4		100.0

-Continued-

Table 23. Age composition of chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)	Brood Year and Age Class									Total	
	1983	1982	1982	1981	1981	1980	1980	1979	1978		
	1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5		
Wild Runs											
Hackett River 111-32-260	Males	N		22		8		18	9		57
		%		32.8		11.9		26.9	13.4		85.1
	Females	N						2	7	1	10
		%						3.0	10.4	1.5	14.9
	Total	N		22		8		20	16	1	67
		%		32.8		11.9		29.9	23.9	1.5	100.0
Nahlin River 111-32-270	Males	N		2		7		37	12	1	59
		%		0.9		3.2		17.1	5.6	0.5	27.3
	Females	N					2	92	63		157
		%					0.9	42.6	29.2		72.7
	Total	N		2		9		129	75	2	217
		%		0.9		4.1		59.4	34.6	0.9	100.0
Redoubt Lake 113-41-043	Males	N									0
		%									0.0
	Females	N							1		1
		%							100.0		100.0
	Total	N							1		1
		%							100.0		100.0
Tahini River 115-32-060	Males	N		2		4		41	11		58
		%		2.7		5.3		54.7	14.7		77.3
	Females	N						4	13		17
		%						5.3	17.3		22.7
	Total	N		2		4		45	24		75
		%		2.7		5.3		60.0	32.0		100.0
Number Males		4	1	873	1	486	1	723	418	1	2,508
Percent		0.1	.0	21.0	.0	11.7	.0	17.4	10.0	.0	60.3
Number Females		0	2	0	3	26	1	572	1,047	3	1,654
Percent		0.0	.0	0.0	0.1	0.6	.0	13.7	25.2	0.1	39.7
Total Number		4	4	873	4	513	2	1,296	1,466	5	4,167
Total Percent		0.1	0.1	21.0	0.1	12.3	.0	31.1	35.2	0.1	100.0

-Continued-

Table 23. Age composition of chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)	Brood Year and Age Class									Total	
	1983	1982	1982	1981	1981	1980	1980	1979	1978		
	1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5		
Wild Runs											
King Salmon River 111-17-010	Males	N				4		12	1		17
		%				13.3		40.0	3.3		56.7
	Females	N						4	9		13
		%						13.3	30.0		43.3
	Total	N				4		16	10		30
		%				13.3		53.3	33.3		100.0
Taku River (Canyon Island) 111-32-032	Males	N		56		14		4	3		77
		%		52.3		13.1		3.7	2.0		72.0
	Females	N					5		12	13	30
		%					4.7		11.2	12.1	28.0
	Total	N		56		19		16	16		107
		%		52.3		17.8		15.0	15.0		100.0
Nakina River 111-32-220	Males	N	3	667		359		491	182		1,702
		%	0.1	25.7		13.8		18.9	7.0		65.5
	Females	N				2		318	574	2	896
		%				0.1		12.2	22.1	0.1	34.5
	Total	N	3	667		362		809	756	2	2,599
		%	0.1	25.7		13.9		31.1	29.1	0.1	100.0
Little Tatsamie Lk. 111-32-254	Males	N	1	18		4		7	4		34
		%	2.1	38.3		8.5		14.9	8.5		72.3
	Females	N				4		5	4		13
		%				8.5		10.6	8.5		27.7
	Total	N	1	18		8		12	8		47
		%	2.1	38.3		17.0		25.5	17.0		100.0
Tatsamie River 111-32-255	Males	N				6		7	1		14
		%				21.4		25.0	3.6		50.0
	Females	N				2		8	4		14
		%				7.1		28.6	14.3		50.0
	Total	N				8		15	5		28
		%				28.6		53.6	17.9		100.0

-Continued-

Table 23. Age composition of chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class							Total	
		1983	1982	1981	1981	1980	1980	1979		
		0.1	1.1	0.3	1.2	0.4	1.3	1.4		
Hatchery Runs										
Ketchikan Creek 101-47-025	Males	N	1	3	1	191		130	11	337
		%	0.2	0.5	0.2	33.8		23.8	1.9	59.6
Deer Mountain Hatchery	Females	N			10	2	185	31	228	
		%			1.8	0.4	32.7	5.5	48.4	
Total		N	1	3	1	212	2	315	42	576
		%	0.2	0.5	0.2	36.8	0.3	54.7	7.3	100.0
Crystal Creek 106-44-031	Males	N			19		53	5	77	
		%			15.3		42.7	4.0	62.1	
	Females	N			2		34	11	47	
		%			1.6		27.4	8.9	37.9	
Total		N			21		87	16	124	
		%			16.9		70.2	12.9	100.0	
Shettisham Hatchery	Males	N			23		3	9	35	
		%			47.9		6.3	18.8	72.9	
	Females	N						13	13	
		%						27.1	27.1	
Total		N			23		3	22	48	
		%			47.9		6.3	45.8	100.0	
Number Males			1	3	1	233	0	186	449	
Percent			0.1	0.4	0.1	31.6	0.0	25.2	68.9	
Number Females			0	0	0	12	2	219	288	
Percent			0.0	0.0	0.0	1.6	0.3	29.7	39.1	
Total Number			1	3	1	256	2	405	748	
Total Percent			0.1	0.4	0.1	34.2	0.3	54.1	100.0	

1/ Stikine River samplers are from three lower river test fish sites combined.

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985.

System (Stream Number)		Brood Year and Age Class								
		1983	1982	1982	1981	1981	1980	1980	1979	1978
		1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5
Wild Runs										
Blossom Creek 101-55-040	Males	Ave.				752.7		853.8	950.7	
		S.E.				43.85		38.10	38.13	
		N				11		8	7	
	Females	Ave.				930.0	1000.0	811.3	919.0	
		S.E.						22.22	18.35	
		N				1	1	12	10	
	Total	Ave.				767.5	1000.0	828.3	932.1	
		S.E.				42.67		18.11	18.74	
		N				12	1	20	17	
Chickamin River 101-71-004	Males	Ave.				680.0		820.0		
		S.E.								
		N				1		1		
	Females	Ave.			950.0	760.0		877.9	946.7	
		S.E.						14.11	14.91	
		N			1	1		12	9	
	Total	Ave.			950.0	720.0		873.5	946.7	
		S.E.				40.00		13.72	14.91	
		N			1	2		13	9	
Cripple Creek 101-75-300	Males	Ave.	540.0	425.0	810.0	541.0		776.7	940.0	
		S.E.		35.00		41.42		41.06		
		N	1	2	1	5		3	1	
	Females	Ave.						830.0	970.0	
		S.E.						16.36	65.00	
		N						5	2	
	Total	Ave.	540.0	425.0	810.0	541.0		810.0	960.0	
		S.E.		35.00		41.42		19.27	38.84	
		N	1	2	1	5		8	3	
Benes Lake Creek 101-75-	Males	Ave.		412.5		589.2		682.5		
		S.E.		38.54		25.90		62.50		
		N		4		6		2		
	Females	Ave.				685.0		826.8		
		S.E.						19.45		
		N				1		11		
	Total	Ave.		412.5		682.9		804.6		
		S.E.		38.54		25.82		23.30		
		N		4		7		13		

-Continued-

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class								
		1983	1982	1982	1981	1981	1980	1980	1979	1978
		1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5
Wild Runs										
Stikine River 100-40-015	Males	Ave.		451.3		538.0		695.0		785
		S.E.		23.9		23.97				
		N		4		10		1		1
	Females	Ave.						787.5		818.0
		S.E.						37.50		68.00
		N						2		2
Total		Ave.		451.3		538.0		756.7		801.7
		S.E.		23.92		23.97		37.60		35.63
		N		4		10		3		3
Little Tahitan I/ River Live weir samples 100-00-120	Males	Ave.		290.0		525.0		672.0		794.2
		S.E.		5.77		28.72		23.91		8.15
		N		3		4		15		62
	Females	Ave.			630.0	590.0		695.0		735.9
		S.E.						18.90		3.81
		N				1	1	20		118
Total		Ave.		290.0	630.0	538.0		687.0		769.1
		S.E.		5.77		25.77		18.91		3.90
		N		3	1	5		43		180
Little Tahitan I/ River Carcass samples 100-00-120	Males	Ave.		289.3		377.3		653.2		768.1
		S.E.		9.87		29.06		22.20		13.66
		N		44		15		19		21
	Females	Ave.				625.0		668.2		730.9
		S.E.						35.00		7.10
		N						2		43
Total		Ave.		289.3		406.5		658.7		743.1
		S.E.		9.87		32.54		15.72		6.85
		N		44		17		30		64
Little Tahitan I/ River Live and carcass 100-00-120	Males	Ave.		289.0		483.5		661.5		787.6
		S.E.		9.85		26.41		16.12		7.07
		N		47		19		34		83
	Females	Ave.			630.0	613.3		687.4		749.3
		S.E.						23.33		3.47
		N				1	3	39		161
Total		Ave.		289.0	630.0	430.9		675.3		762.3
		S.E.		9.85		27.52		9.19		3.51
		N		47	1	22		73		244

-Continued-

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class								
		1983 1.0	1982 0.2	1982 1.1	1981 0.3	1981 1.2	1980 0.4	1980 1.3	1979 1.4	1978 1.5
Wild Runs										
Falls Lake 109-20-013	Males	Ave.				596.5		800.0		
		S.E.				35.50				
		N				2		1		
	Females	Ave.				593.0				
		S.E.								
		N				1				
	Total	Ave.				596.7		800.0		
		S.E.				20.50				
		N				3		1		
Farragut River 110-14-007	Males	Ave.				580.0	920.0	740.3	911.1	
		S.E.				16.00		12.42	16.10	
		N				2	1	20	19	
	Females	Ave.						851.7	892.5	
		S.E.						6.82	14.23	
		N						3	12	
	Total	Ave.				580.0	920.0	754.8	903.9	
		S.E.				16.00		13.45	11.26	
		N				2	1	23	31	
King Salmon River 111-17-010	Males	Ave.				566.3		787.7	913.0	
		S.E.				9.87		14.40		
		N				4		12	1	
	Females	Ave.						797.3	887.6	
		S.E.						22.57	6.90	
		N						4	9	
	Total	Ave.				566.3		790.1	890.1	
		S.E.				9.87		11.91	6.74	
		N				4		16	10	
Nahlin River 111-32-270	Males	Ave.		345.0		620.0		769.7	863.2	930.0
		S.E.		5.00		35.60		9.62	20.39	
		N		2		6		36	11	1
	Females	Ave.				695.0		754.3	826.6	
		S.E.				35.00		4.79	7.02	
		N				2		86	61	
	Total	Ave.		345.0		639.4		758.9	832.2	930.0
		S.E.		5.00		30.57		4.44	6.83	
		N		2		8		122	72	1

-Continued-

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class									
		1983	1982	1982	1981	1981	1980	1980	1979	1978	
		1.0	0.2	1.1	0.3	1.2	0.4	1.3	1.4	1.5	
Wild Runs											
Taku River (Canyon Is.) 111-32-032	Males	Ave.		352.1		587.5		738.8		886.7	
		S.E.		4.94		17.44		35.73		39.38	
		N		56		14		4		3	
	Females	Ave.				691.2		772.1		836.9	
		S.E.				77.84		9.72		17.49	
		N				5		12		13	
	Total	Ave.		352.1		614.8		763.8		846.3	
		S.E.		4.94		25.14		11.39		16.21	
		N		56		19		16		16	
Little Tatsamnie Lake 111-32-254	Males	Ave.		352.0				788.0		938.0	
		S.E.		12.41						68.00	
		N		5					1	2	
	Females	Ave.				478.0					
		S.E.				98.00					
		N				2					
	Total	Ave.		352.0		478.0		788.0		938.0	
		S.E.		12.41		98.00				68.00	
		N		5		2		1		2	
Tatsamnie Lake 111-32-256	Males	Ave.				671.7		837.1		798.0	
		S.E.				28.00		48.63			
		N				6		7		1	
	Females	Ave.				718.0		798.0		862.5	
		S.E.				100.00		14.76		51.21	
		N				2		8		4	
	Total	Ave.				681.3		812.0		848.0	
		S.E.				29.00		23.89		42.24	
		N				8		15		5	
Nakina River 2/ 111-32-228	Males	Ave.	287.5		329.7		536.3		738.5	873.6	
		S.E.	8.00		24.56		92.36		89.83	78.69	
		N	3		667		359		491	182	
	Females	Ave.				737.5		782.8		848.3	887.5
		S.E.				8.00		42.00		47.48	8.00
		N				2		318		574	2
	Total	Ave.	287.5		329.7		537.6		751.0	848.3	887.5
		S.E.	8.00		24.56		92.06		74.72	56.54	8.00
		N	3		667		362		809	756	2

-Continued-

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)		Brood Year and Age Class								
		1983 1.0	1982 0.2	1982 1.1	1981 0.3	1981 1.2	1980 0.4	1980 1.3	1979 1.4	1978 1.5
Wild Runs										
Hackett River 1/ 111-32-260	Males	Ave.		282.1		448.9		646.6	714.3	
		S.E.		4.24		19.87		18.85	25.76	
		N		22		8		16	9	
	Females	Ave.						661.8	768.4	775.8
		S.E.						35.80	18.64	
		N						2	7	1
	Total	Ave.		282.1		448.9		648.2	734.5	775.8
		S.E.		4.24		19.87		16.98	17.17	
		N		22		8		18	16	1
Redoubt Lake 113-41-843	Males	Ave.								
		S.E.								
		N								
	Females	Ave.						878.8		
		S.E.								
		N							1	
Total	Ave.						878.8			
	S.E.									
	N							1		
Tahini River 115-32-866	Males	Ave.		387.5		593.8		748.3	925.8	
		S.E.		22.58		41.45		14.17	23.91	
		N		2		4		41	11	
	Females	Ave.						837.5	898.1	
		S.E.						11.89	9.78	
		N						4	13	
	Total	Ave.		387.5		593.8		756.2	918.4	
		S.E.		22.58		41.45		13.48	12.28	
		N		2		4		45	24	

Table 24. Mean length at age (by sex) for chinook salmon from escapements to Southeastern Alaska and transboundary rivers, 1985 (continued).

System (Stream Number)	Brood Year and Age Class								
	1983	1982	1981	1981	1980	1980	1979		
	0.1	1.1	0.3	1.2	0.4	1.3	1.4		
Hatchery Runs									
Ketchikan Creek 181-47-025	Males	Ave.	485.0	586.7	800.0	675.0	818.8	909.5	
		S.E.		49.36		4.59		5.45	28.5
		N	1	3	1	191		130	11
Deer Mountain Hatchery	Females	Ave.			749.7	910.0	808.8	866.5	
		S.E.			18.07	25.00	3.51	8.26	
		N			10	2	185	31	
	Total	Ave.	485.0	586.7	800.0	675.6	910.0	812.9	
		S.E.		49.36		4.49	25.00	3.06	9.87
		N	1	3	1	212	2	315	42
Crystal Creek 106-44-031	Males	Ave.			671.3		786.5	806.0	
		S.E.			14.10		7.87	20.70	
		N			19		53	5	
	Females	Ave.			695.0		806.8	823.2	
		S.E.			15.00		6.11	19.07	
		N			2		34	11	
	Total	Ave.			673.6		794.4	817.8	
		S.E.			12.06		5.43	14.30	
		N			21		87	16	
Shettishan Hatchery 111-33-000	Males	Ave.			540.6		661.7	806.4	
		S.E.			14.62		57.61	14.73	
		N			23		3	9	
	Females	Ave.						852.7	
		S.E.						14.04	
		N						13	
	Total	Ave.			540.6		661.7	833.8	
		S.E.			14.62		57.61	11.10	
		N			23		3	22	

1/ Lengths for these fish are from post-orbital to hyperal plate.

2/ Weighted mean lengths (see Methods).

Table 25. Southeastern Alaska commercial troll, seine, and gill net harvest of chinook salmon, freshwater-age 0., 1985.

Fishery		Area				Total
		Northern Outside	Southern Outside	Northern Inside	Southern Inside	
Winter Troll 1/	Number	489	176	1,319	1,079	3,063
	Percent	58.3	57.1	50.7	50.3	52.0
Summer Troll	Number	66,886	14,150	16,826	4,723	102,585
	Percent	60.8	53.1	38.8	36.2	53.1
Seine	Number	1,805	8,767	1,799	445	12,816
	Percent	60.9	74.1	35.7	40.0	61.2
Gillnet	Number	-	-	670	523	1,193
	Percent	-	-	11.3	10.9	11.2

1/ Winter troll includes only the catches made from 3 March to 14 April 1985.

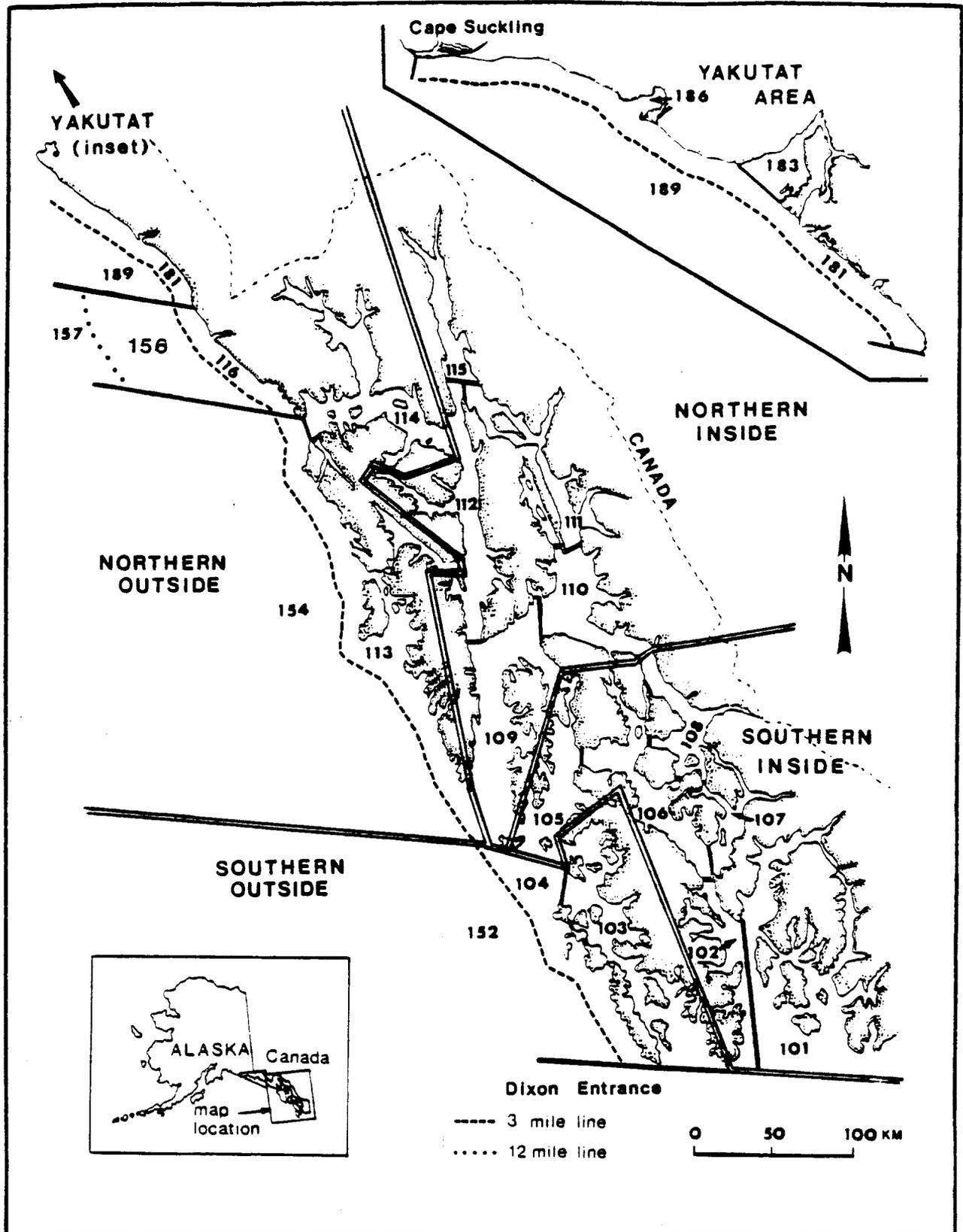


Figure 1. Map of Southeastern Alaska showing the statistical fishing districts and four areas used for analysis of the troll data.

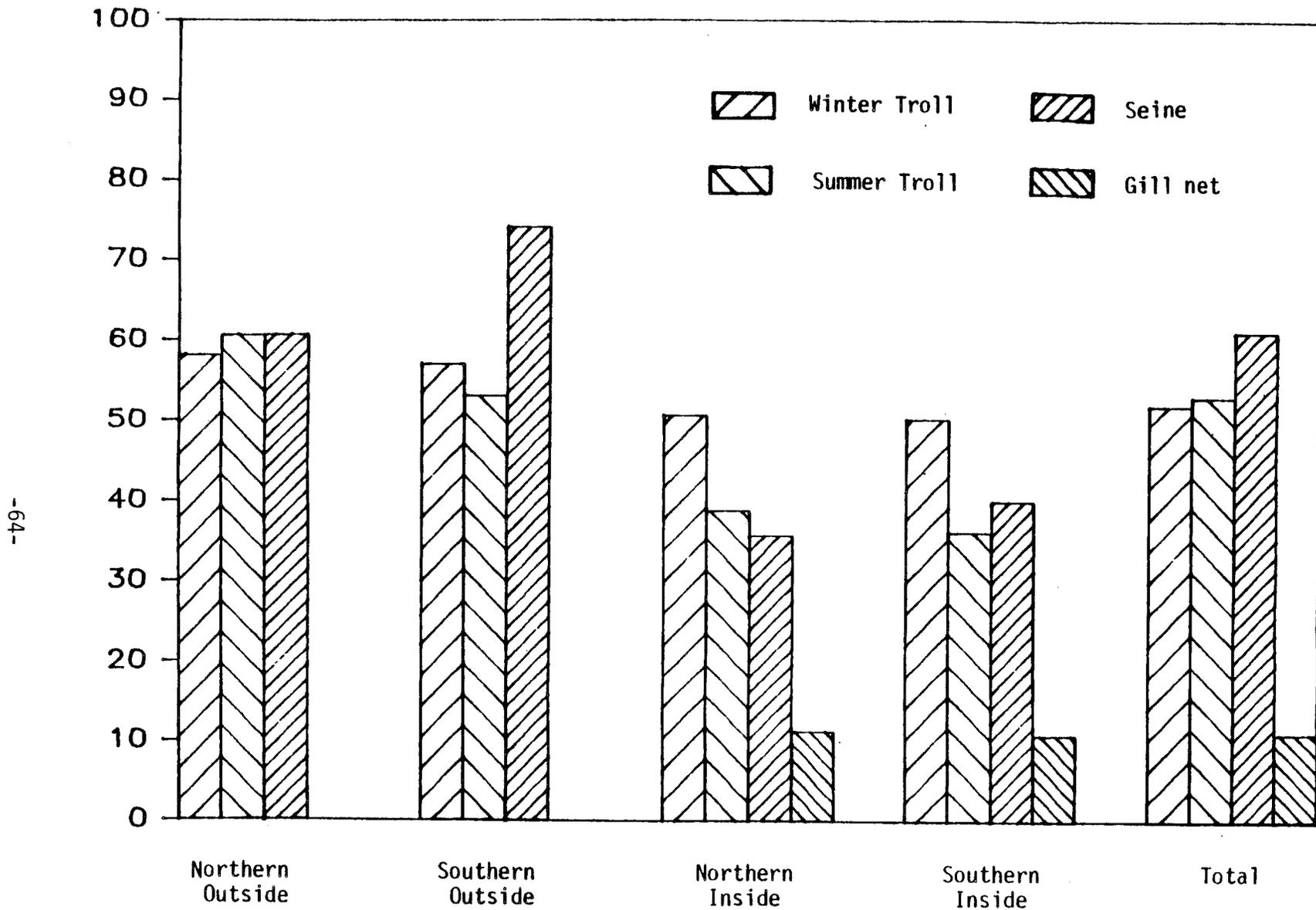


Figure 2. Percent freshwater-age 0. chinook salmon in the Southeastern Alaska troll, seine, and gill net harvests, 1985.

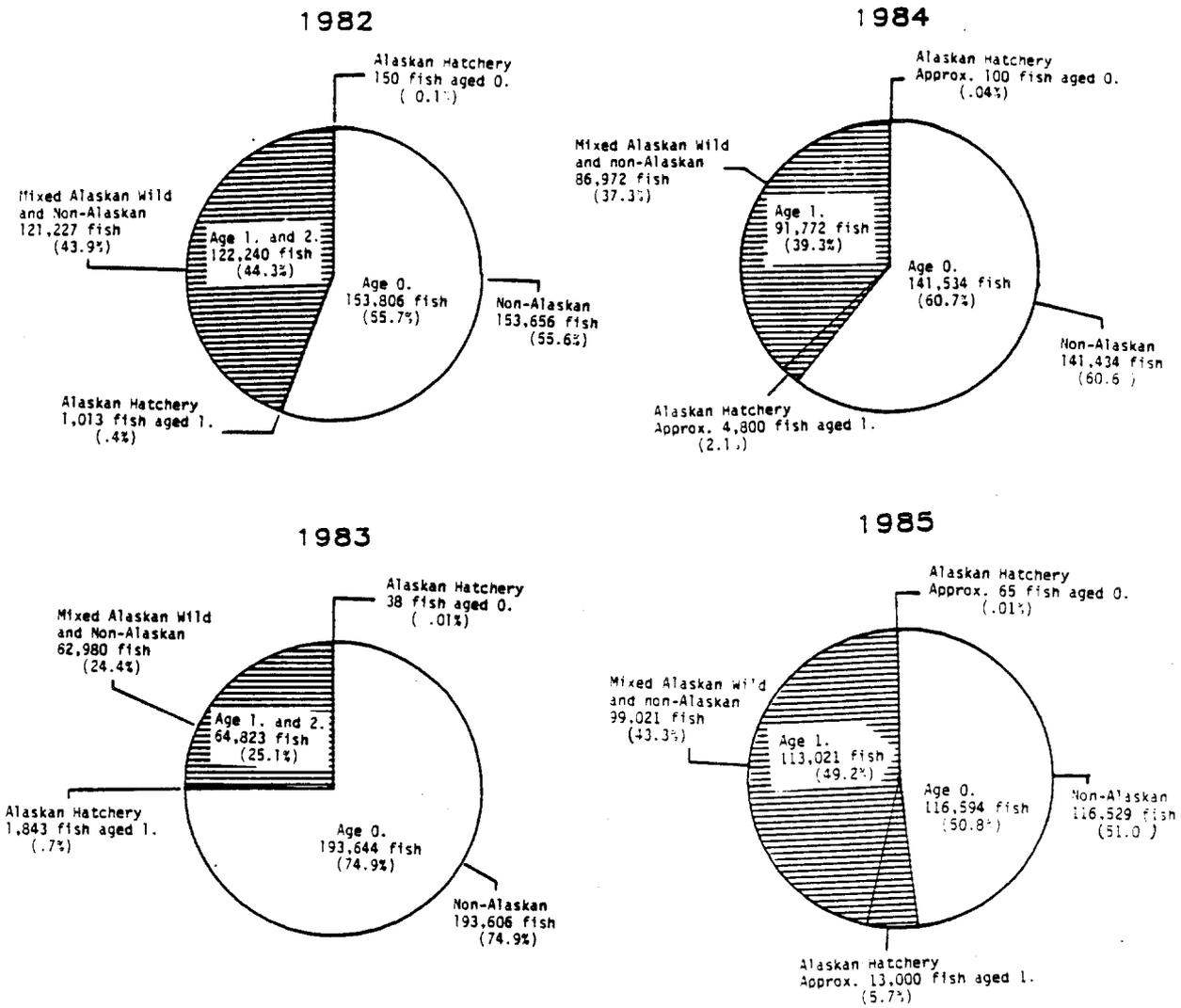


Figure 3. Age composition and coded microwire tag based estimate of the minimum number of non-Alaskan chinook salmon harvested in Southeastern Alaska commercial summer troll, seine, and gill net fisheries in 1982, 1983, 1984, and 1985.

APPENDIX - Abundance, Age, Sex, and Size Data

Appendix Table 1. Sample size needed to describe the age composition of a three, four, five, six, or seven-age class population of increasing size with a precision of $\pm 5\%$ and a probability of 0.10.

bva#33,samsize.prn in EXACT

Population Size	Sample Size Needed With The Following Number of Groups ¹					
	2	3	4	5	6	7
500	218	238	251	261	267	273
1,000	278	312	334	352	364	376
1,500	307	349	376	399	414	429
2,000	323	370	401	427	445	462
2,500	334	384	418	446	466	485
3,000	341	394	430	460	481	501
3,500	347	402	439	470	492	513
4,000	351	408	446	478	501	523
4,500	355	412	452	485	508	530
5,000	358	416	456	490	513	537
6,000	362	422	463	498	522	546
7,000	365	426	468	504	529	554
8,000	367	430	472	509	534	559
9,000	369	432	476	512	538	563
10,000	371	434	478	515	541	567
15,000	375	441	486	524	551	578
20,000	378	444	490	529	556	583
25,000	379	446	492	531	559	587
30,000	380	447	494	533	561	589
35,000	381	448	495	535	563	591
40,000	381	449	496	536	564	592
45,000	382	449	496	537	565	593
50,000	382	450	497	537	566	594
60,000	383	451	498	538	567	595
70,000	383	451	498	539	567	596
80,000	383	451	499	539	568	597
90,000	383	452	499	540	568	597
100,000	384	452	499	540	569	597
infinite	385	454	502	543	572	601

¹ Based on Cochran (1977) using the following formula:

$$n' = \frac{n_0}{1 + \frac{(n_0 - 1)}{N}}$$

Where: n' = adjusted sample size
 n_0 = sample size needed for an infinitely large population
 N = population size

Appendix Table 2. Hand and power troll harvest of chinook salmon in pounds by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Southern Outside			Northern Inside Districts					Northern Outside Districts					Total						
			101	102	105	106	107	108	103	104	152	109	110	111	112	114	115	113	114	116	154		156	157	181	183	189	
1984	40	9/30-10/6	279	2,057	83	27	917	716			95	1,428	3,481			5,332											28,690	
	41	10/7-10/13	704	731		375	917	105			417	681	17,209	3,743		17,249											48,742	
	42	10/14-10/20	1,063	1,150		86	211	722			52	272	1,962	12,104		3,531			183								23,308	
	43	10/21-10/27	1,066	1,005		120	14	484			230		1,426	14,568	1,092	8,670			382								31,473	
	44	10/28-11/3	256	1,265		143		95			451		1,560	1,389	700	1,340											7,686	
	45	11/4-11/10	546	663		711	385	767					417	2,673		822											7,711	
	46	11/11-11/17	809	69		79	709	1,273			375		1,609	6,679	174	861	243							139			13,536	
	47	11/18-11/24	311	472			239	151					358	3,174		37								252			6,821	
	48	11/25-12/1	114	200		123	88	501			143		31	233	937	339	711										4,751	
	49	12/2-12/8	68	1,988	627	182	81	715			27		113	3,534		722											18,433	
	50	12/9-12/15	113	74	652		243	422			317		675	327		278											3,738	
	51	12/16-12/22	207	347				91			35	58	170	1,439		263											3,440	
	52	12/23-12/29		42			27	178			354		12	57		100											1,849	
	1985	1	1/1-1/5													207											433	
		2	1/6-1/12			54							125	92		483											1,069	
		3	1/13-1/19		98		56	170	325			87	658	159	63	888											3,887	
4		1/20-1/26	28	59		71	32	793			1,839	249	121		932												4,251	
5		1/27-2/2	68	338		174	25	462			254	419	688		262	1,371											5,719	
6		2/3-2/9	34	148	784	492		535			488	1,381	258	159		578								121			5,519	
7		2/10-2/16				417	29	272			189	320				116											2,824	
8		2/17-2/23		199		322	24	428			958	188			318												3,558	
9		2/24-3/2	35	328	142	582	338	951			329	77			93												4,487	
10		3/3-3/9	36	226	681	317	45	527			134	182			959	70											4,562	
11		3/10-3/16		196	181	222	426	993			1,262	161			54	34	49										4,135	
12		3/17-3/23	587	223	996	493	193	679			377	107			478	236									23		6,240	
13		3/24-3/30	458		4,938	188	88	387			489	368			2,454	588											18,761	
14		3/31-4/6	113	334	3,518	299	188	468			235	498			2,169	611											18,382	
15		4/7-4/13		4,338	226	84	44				282				2,384	714												14,587
16		4/14-4/20		3,664	338	36	339				52				5,199	895												17,929
Winter District Total			7,787	12,220	28,562	6,835	5,421	13,537			7,514	5,162	0	26,158	71,399	6,766	2,875	66,933	23								297,241	
Area Total			65,562						12,676			174,154					44,849											
			Fishery Closed except District 183 15 April to 2 June.																									
23	6/2-6/8	5,159	12,813	8,856	547	6,814				6,187	184,917	1,438	29,484	31,841		6,155											377,529	
24	6/9-6/15	18,286	15,758	16,187	11,313	9,665	1,265			9,815	64,489	4,388	24,786	62,769	3,253	6,897											639,391	
25	6/16-6/22	44																									4,494	
26	6/23-6/29	364																									364	
27	6/30-7/6	2,351	3,543	3,593	846	3,422	567			7,711	84,872		26,651	18,446	788	8,088											663,821	
28	7/7-7/13	7,867	13,483	6,251	3,659	3,288	178			11,384	76,361		28,323	33,228	3,482	14,662											952,889	
29	7/14-7/20	5,188	6,226	2,484	2,838	1,318	139			11,836	36,197	376	11,986	21,548	1,892	9,299											373,429	
30	7/21-7/27	4,868	1,362	899	725	144				4,173	9,512		12,268	17,892	617	3,689											332,318	
31	7/28-8/3																										312	
32	8/4-8/10	346																									698	
33	8/11-8/17	11																									55	
34	8/18-8/24	58																									128	
35	8/25-8/31	5,867	633	467	2,885	7	168			1,681	11,896		3,466	7,738	58	4,823											228,695	
36	9/1-9/7	5																									188	
Summer District Total			48,676	53,788	38,657	21,133	24,562	2,381			51,827	387,434	6,386	136,884	185,454	9,194	52,262										3,166,287	
Area Total			181,189						444,767			393,847					2,146,564											
Season Total			48,463	66,888	59,219	27,168	29,983	15,838			58,541	392,596	6,386	162,962	256,853	15,968	55,137											3,463,528

1/ District 183 catches in pounds for wk. 17=98, wk. 19=1387, wk. 20=779, wk. 21=935, wk. 22=2054; the total, 5253, is included with wk. 23.
 2/ 399 pounds reported in wk 38 were added to wk. 35.

Appendix Table 3. Power troll harvest of chinook salmon in pounds by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Southern Outside			Northern Inside Districts						Northern Outside Districts						Total			
			101	102	105	106	107	108	103	104	152	109	110	111	112	114	115	113	114	116	154	156	157		181	183	189
1984	40	9/30 10/6	101	1,672		27	672	401			32	1,304	2,632			4,205	5,297										16,583
	41	10/7 10/13	523	731		353	700	60			207	646	16,070	3,743	11,700	6,046										41,027	
	42	10/14 10/20	1,436	907		86	101	452	52	50		1,471	10,160		2,071	956			183							18,013	
	43	10/21 10/27	1,066	865			14	421	35			1,357	13,902	1,092		4,975	2,171		302							26,220	
	44	10/28 11/3	239	1,115		100				404		1,145	1,166	700	1,103	397										6,377	
	45	11/4 11/10	161	595		626	353	545				340	2,472		166	656										5,922	
	46	11/11 11/17	630	69		79	512	1,075	375			1,609	6,052	174	861	63	344									11,043	
	47	11/18 11/24	311	410			126	90				350	1,063		11	959										5,320	
	48	11/25 12/1	51	10		20							233	937	104	1,300										2,751	
	49	12/2 12/8	60	1,685		627	26		452	27		113	3,403			2,240										8,649	
	50	12/9 12/15		74		652		120	113	209		675	316		77	637										2,073	
	51	12/16 12/22	109	261						50		146	1,439			830										2,923	
	52	12/23 12/29		42				27		197		12			199	477										0	
1985	1	1/1 1/5														85										364	
	2	1/6 1/12			54			100				125															
	3	1/13 1/19		90		56	142					457		63		503										1,399	
	4	1/20 1/26	19	59			32	26	900	33		249	121			700										2,219	
	5	1/27 2/2	14	217		141	140	254	729			347	420		262	316	1,145									4,001	
	6	2/3 2/9	34	140	704	402	166	316	1,301			241	346		337	392										4,547	
	7	2/10 2/16				343			109	320						695										1,467	
	8	2/17 2/23		199			33	950	100			310			144	239										1,991	
	9	2/24 3/2	35	320	142	533	330	237	317	77					67	311										2,309	
	10	3/3 3/9	36	226	601	233	15	120	134	102		929	70		249	493										3,200	
	11	3/10 3/16		196	6	101	370		1,169	161		54		49	510	152										2,064	
	12	3/17 3/23	507	223	009	446	160	201	107			470	219		171	23	014									4,390	
	13	3/24 3/30	450		4,532	125	75	19	272	360		2,426	375	1,013	2,153	3,445										15,261	
	14	3/31 4/6	93	334	3,116	250	316	235	490			2,070	556		4,607	3,597										15,752	
	15	4/7 4/13			3,623	179	49		202			2,107	690		4,645	1,452										12,947	
	16	4/14 4/20			3,200	299	36	245	52			5,199	636		4,473	1,954										16,102	
Winter District Total			6,151	10,544	10,314	4,513	3,762	5,299	6,256	4,557	0	24,264	64,365	6,766	2,136	42,395	23	30,177	405	0	0	0	0	0	0	0	237,967
Area Total			40,543						10,013			139,949						30,662									
			Fishery Closed except District 183 15 April to 2 June.																								
	23	6/2 6/8	4,191	9,360	6,003		1,103		3,306	94,490	1,430	21,044	10,063		1,417	69,736	26,001	23,292		2,520			1,553 1/				206,005
	24	6/9 6/15	9,139	12,741	14,007	6,049	6,127	1,126	5,751	60,050	4,500	21,512	50,603	2,715	2,002	149,294	30,963	31,267	5,905	136,206	5,512	7,145	5,739				579,001
	25	6/16 6/22	44													605					2,207						2,056
	26	6/23 6/29	364																							364	
	27	6/30 7/6	722	1,604	2,033	293	2,391	267	5,153	74,740		19,734	4,175	330	3,652	793	390,409	12,374	16,200	19,522	2,530	7,919	7,005	13,641	10,003	597,146	
	28	7/7 7/13	5,900	11,925	3,321	3,106	1,915		7,477	70,400		24,339	21,169	2,639	5,100	950	211,040	10,757	21,319	21,490	16,225	2,525	15,505	6,392	471,750		
	29	7/14 7/20	3,357	3,794	1,523	1,001	950	20	7,004	32,462	376	9,196	11,064	419	3,295	560	165,253	11,303	10,159	3,240	14,033	7,204	14,001	1,732	315,506		
	30	7/21 7/27	3,470	005	530	639	56		2,360	0,330		10,931	12,700	205	1,300		103,664	9,007	15,427	14,660	20,102	7,959	3,524		304,037		
	31	7/28 8/3														250										250	
	32	8/4 8/10	346																							604	
	33	8/11 8/17														115	70									44	
	34	8/18 8/24														44										0	
	35	8/25 8/31	5,371	337	306	1,706		132	1,311	11,147		2,116	4,941		620	27	143,379	6,007	10,624	1,734		2,260	001	3,130	196,090		
	36	9/1 9/7	5													5										17	
			Fishery Closed 26 August.																								
Summer District total			33,109	40,574	29,491	14,474	12,542	1,545	33,250	352,539	6,306	109,672	123,603	6,396	10,506	2,303	1,313,090	123,370	136,360	66,559	2,530	205,165	34,040	57,050	29,796	2,754,030	
Area Total			131,015						392,095			260,560						1,969,560									
Season Total			39,340	51,118	47,005	18,987	16,304	6,804	39,506	357,096	6,306	133,936	107,960	13,162	20,722	42,395	2,326	1,352,067	123,370	136,053	66,559	2,530	205,165	34,040	57,050	29,796	2,992,005

1/ District 183 catches in pounds for wk. 19=530, wk. 20=588, wk. 21=117, wk. 22=289; the total, 1524, is included with wk. 23.
 2/ 399 pounds reported in wk 38 were added to wk. 35.

Appendix Table 5. Purse seine harvest in pounds of chinook salmon in Southeastern Alaska by district and statistical week, 1985.

Stat. Week	Date	Districts											Total	
		101	102	103	104	105	106	107	109	110	112	113		114
27	6/30-7/6										2,331			2,331
28	7/7-7/13	78			24,835						5,524			30,437
29	7/14-7/20	4,184	11,927		16,841					4,804	9,745	2,047	1,526	51,074
30	7/21-7/27	4,960	1,356		71,210					5,036	3,772	27,979	5,573	119,894
31	7/28-8/3	3,113	669		84,980			2,017	8,057	2,545	3,937	547		105,865
32	8/4-8/10	2,675	2,791		55,285	82		1,230	2,845	1,602	5,183			71,693
33 1/	8/11-8/17	84	180	83				16			39			402
34	8/18-8/24				860	13								873
35	8/25-8/31										20			20
District	Totals	15,094	16,923	83	254,019	95	0	0	3,263	20,742	25,578	39,146	7,646	382,589

1/ Fishery closed to the taking of chinook salmon after 12 August (Stat. Weeks 33, 34, 35).

Appendix Table 6. Gill net harvest in pounds of chinook salmon in Southeastern Alaska by district and statistical week, 1985.

Stat Week	Date	District					Total	
		101	102	106	108	111		115
25	6/16-6/22	8,793		1,651		5,644	1,392	17,480
26	6/23-6/29	8,921		2,426		4,361	3,697	19,405
27	6/30-7/6	5,587		1,171		3,712	3,432	13,902
28	7/7-7/13	2,207		2,543		2,299	6,348	13,397
29	7/14-7/20	1,981		2,116		1,812	1,539	7,448
30	7/21-7/27	2,476		2,384		1,624	647	7,131
31	7/28-8/3	1,527		1,053	90	1,502	868	5,040
32	8/4-8/10	701	235	291		512	1,392	3,131
33	8/11-8/17	415		102		721	728	1,966
34	8/18-8/24	281		199	10	176	1,955	2,621
35	8/25-8/31	1,432		396		170	761	2,759
36	9/1-9/7	30		179	9	468	466	1,152
37	9/8-9/14	91		43	29	142	609	914
38	9/15-9/21	32		23		373	368	796
39	9/22-9/28			49		17	100	166
40	9/29-10/5						305	305
41	10/6-10/12						214	214
42	10/13-10/19						12	12
Total		34,474	235	14,626	138	23,533	24,833	97,839

Appendix Table 7. Average weight (lb) of chinook salmon harvested by hand and power troll by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Southern Outside			Northern Inside Districts						Northern Outside Districts						Total					
			101	102	105	106	107	108	103	104	152	109	110	111	112	114	115	113	114	116	154	156	157		101	103	109		
1984	40	9/30-10/6	11.2	11.1		13.5	9.0	11.4		11.9		9.9	12.1		12.2		14.7										12.3		
	41	10/7-10/13	11.2	10.9		10.7	11.9	10.5		11.3		14.2	12.7	13.9		13.6		14.2									13.2		
	42	10/14-10/20	11.2	11.0		12.3	10.6	13.6		17.3	11.3		13.6	12.4		15.2		14.2		11.4						12.7			
	43	10/21-10/27	10.6	10.8			14.0	13.1		9.6			13.0	12.0	12.0		13.7		13.0		13.7					12.9			
	44	10/28-11/3	10.2	10.8		14.3				10.7			13.2	12.6	15.1		12.9		12.6							12.4			
	45	11/4-11/10	11.4	10.7		12.7	12.0	12.4					12.6	13.4		16.1		12.3								12.0			
	46	11/11-11/17	11.5	9.9		11.3	11.0	12.5		11.4			14.4	13.7	14.5	11.0	14.3		12.1							13.1			
	47	11/18-11/24	11.5	10.3			12.6	12.6					19.9	13.9			10.5		14.1							13.5			
	48	11/25-12/1	10.4	9.5		15.4								13.7	11.6		13.2		12.0							12.3			
	49	12/2-12/8	11.3	11.5	12.5		11.4		10.0	9.0			10.3				13.5		15.3							13.0			
	50	12/9-12/15		14.0	12.0			11.6	11.7	13.2			15.7	15.6			12.6		11.2							12.0			
	51	12/16-12/22	10.4	11.2							11.6		15.5	11.7					12.4							12.1			
	52	12/23-12/29		21.0			13.5			12.2			12.0					14.2								13.6			
1985	1	1/1-1/5																											
	2	1/6-1/12			10.0			10.6					12.5					14.1								12.4			
	3	1/13-1/19		12.3			11.2	12.1					15.3		12.6			15.0								13.9			
	4	1/20-1/26	9.3	9.0			10.7	12.2		13.2	11.4		15.6	10.1				15.4								13.0			
	5	1/27-2/2	12.0	12.1		9.7		12.2		11.5	12.4		17.5	14.5		13.1	16.1		15.9							14.1			
	6	2/3-2/9	8.5	11.4	15.7		11.7		11.4	12.4	13.0		15.2	12.0			13.0		16.2							13.2			
	7	2/10-2/16				11.6				12.1	12.3							17.0								13.1			
	8	2/17-2/23		11.1					10.0	11.7	10.0		10.7				15.6		16.0							13.3			
	9	2/24-3/2	13.0	12.1	11.0		12.1	13.2	12.4	11.0	12.0						17.4		15.6							13.4			
	10	3/3-3/9	9.0	11.9	13.4		10.9	11.3	11.2	11.2	11.3		14.5	11.7			14.0		15.4							13.1			
	11	3/10-3/16		10.9	11.2		15.9	11.5		12.6	17.9		10.0		16.3		17.5		15.0							13.3			
	12	3/17-3/23	12.2	13.1	12.0		13.7		13.1	11.4	17.0		14.2	12.4			10.4	7.7	17.6							13.0			
	13	3/24-3/30	10.4		12.0		12.9	17.6	12.1	10.4	16.0		14.4	12.7		16.3		15.6								14.0			
	14	3/31-4/6	11.3	10.1	11.3		13.6		13.0	13.0	16.3		14.4	12.7			16.2		10.1							14.5			
	15	4/7-4/13			12.9		14.1	12.0			11.9		13.5	14.3			14.0		14.7							13.0			
	16	4/14-4/20			12.0		14.7	12.0	11.3		10.4		14.5	13.0			14.0		14.4							13.9			
Winter District Total			11.1	11.1	12.6	12.7	11.5	11.0		11.9	13.2		13.9	12.9	13.3	13.6	14.2	7.7	14.0		12.0						13.2		
Area Total						11.0				12.4					13.5				14.6										
			Fishery Closed except District 103 15 April to 2 June.																										
	23	6/2-6/8	14.9	12.5	13.0		13.9			14.5	15.9	19.9	14.0	11.9		14.1		17.3	15.1	15.4				21.9	14.1	15.1			
	24	6/9-6/15	15.5	14.2	13.7	14.1	13.6	12.7		15.7	16.0	20.5	13.0	12.5	15.9	12.0		17.6	15.6	15.5	16.0			16.2	14.9	16.0	14.7	15.5	
			Fishery Closed 13 June to 1 July.																										
	25	6/16-6/22	8.0															7.6					17.1			14.0			
	26	6/23-6/29	9.1																							9.1			
	27	6/30-7/6	15.5	11.1	13.5	16.9	14.0	14.2		14.8	18.1		15.6	14.5	10.3	13.7		16.5	10.7	13.5	14.0	19.7	17.0	10.7	15.5	16.3	19.0	17.6	
	28	7/7-7/13	12.5	12.5	13.4	11.4	12.9			15.5	17.1		14.6	12.9	10.7	13.0		11.3	10.4	13.7	16.1	16.7		17.2	24.0	16.9	10.5	16.2	
	29	7/14-7/20	12.0	12.0	16.0	11.2	12.0	13.9		15.5	17.9	25.1	14.5	12.0	10.4	13.0		10.6	10.1	13.2	16.0	10.7		16.5	10.0	17.6	10.3	16.3	
	30	7/21-7/27	12.6	12.3	15.0	11.9	13.1			15.7	16.1		15.3	11.4	10.0	12.3			10.7	13.7	15.0	10.0		16.5	17.6	16.7		16.9	
			Fishery Closed 23 July to 25 August.																										
	31	7/28-8/3																	23.5							19.5			
	32	8/4-8/10	15.0															9.4		19.2	13.0					13.5			
	33	8/11-8/17																	22.0							10.3			
	34	8/18-8/24																											
	35	8/25-8/31	10.3	12.2	13.0	10.9		12.3		13.5	18.7		15.0	12.0		11.2		12.0	10.1	14.5	16.5	17.5		15.1	13.2	15.0	16.7		
	36	9/1-9/7	5.0																5.0							14.5			
			Fishery Closed 26 August.																										
Summer District Total			13.1	12.9	13.0	12.9	13.6	13.0		15.2	16.9	20.6		14.4	12.4	11.9	13.0		11.6	18.3	14.5	15.7	10.0	17.0	16.5	16.9	16.5	17.5	16.3
Area Total						13.2				16.7						13.1				17.4									
Season Total			12.7	12.5	13.4	12.0	13.1	12.0		14.7	16.0	20.6		14.3	12.5	12.5	13.0	14.2	11.6	10.1	14.5	15.6	10.0	17.0	16.5	16.9	16.3	17.5	16.0

Appendix Table 8. Average weight (lb) of chinook salmon harvested by power troll by district and statistical week, 1 October 1984 to 26 August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Southern Outside			Northern Inside Districts					Northern Outside Districts						Total													
			101	102	105	106	107	108	103	104	152	109	110	111	112	114	115	113	114	116	154	156		157	101	103	109									
1984	40	9/30-10/6	11.3	10.9		13.5	9.5	11.7			16.0	9.9	12.4			11.8											14.6	12.2								
	41	10/7-10/13	11.4	10.9		10.7	12.2	12.0			11.5	14.4	12.7	13.9		13.7											14.2	13.2								
	42	10/14-10/20	11.0	11.0		12.3	10.1	13.3			17.3	10.0	13.4	12.3		10.3			11.4								14.1	12.7								
	43	10/21-10/27	10.6	10.7			14.0	13.2			9.2	12.7	12.0	12.0		13.7			13.7								13.7	12.8								
	44	10/28-11/3	10.4	10.8		14.3					10.6	13.3	12.3	15.1		12.4											12.4	12.3								
	45	11/4-11/10	11.5	10.4		12.3	12.2	12.4				12.4	13.4			12.0											12.4	12.5								
	46	11/11-11/17	11.7	9.9		11.3	12.5	13.0			11.4	14.4	13.9	14.5	11.0	15.0											11.9	13.3								
	47	11/18-11/24	11.5	10.3			12.6	12.9				19.9	13.7			11.0											14.3	13.5								
	48	11/25-12/1	12.0	9.0		9.3							13.7	11.6		11.5											12.9	12.3								
	49	12/2-12/8	11.3	10.7	12.5	13.0		11.3	9.0			10.3	13.4														15.4	12.9								
	50	12/9-12/15		14.0	12.0		10.9	10.3	14.9			15.7	15.0			12.0												11.2	13.2							
	51	12/16-12/22	10.5	10.9								11.6	16.2	11.7														12.4	11.9							
	52	12/23-12/29		21.0				13.5				12.3				12.0												14.2	13.6							
1985	1	1/1-1/5														12.5											14.2	12.1								
	2	1/6-1/12			10.0			11.1								15.2											15.0	14.4								
	3	1/13-1/19		12.3		11.2	11.0							12.6														15.6	13.5							
	4	1/20-1/26	9.5	9.0			10.7	13.0	12.9	11.0		15.6	10.1															15.6	13.7							
	5	1/27-2/2	14.0	10.9		9.4	13.5		11.5	12.4		16.5	14.0		13.1	13.7												15.9	13.4							
	6	2/3-2/9	8.5	11.4	15.7	12.2		11.1	12.2	13.0		15.1	12.0			13.0												16.3	14.0							
	7	2/10-2/16				11.1			12.1	12.3																		17.0	14.0							
	8	2/17-2/23		11.1				11.0	11.7	10.0					10.7			16.0										17.1	13.1							
	9	2/24-3/2	13.0	12.3	11.0	11.0	13.2	11.9	11.7	12.0					18.7			16.0										15.6	12.6							
	10	3/3-3/9	9.0	11.9	13.4	11.1	15.0	10.9	11.2	11.3		14.5	11.7					14.6										14.9	13.3							
	11	3/10-3/16		10.9	6.0	15.1	11.1		12.6	17.9		10.0		16.3				17.3										15.2	13.4							
	12	3/17-3/23	12.2	13.1	11.9	13.5		12.3	11.7	17.0		14.2	12.9					15.5	7.7									17.0	14.0							
	13	3/24-3/30	10.4		12.0	11.4	10.0	19.0	10.1	16.0		14.3	12.5		16.3			14.3										16.1	14.0							
	14	3/31-4/6	11.6	10.1	11.3	13.2		12.2	13.0	16.3		14.2	12.9					16.1										10.3	14.5							
	15	4/7-4/13			12.6	13.0	9.0			11.9		13.6	14.1					14.7										14.8	13.0							
	16	4/14-4/20			12.7	15.0	12.0	10.2		10.4		14.5	13.5					13.9										14.3								
Winter District Total			11.1	10.9	12.5	12.2	11.5	12.2	12.0	13.2		13.9	12.0	13.3	13.0	14.0	7.7	14.0		12.0									13.2							
Area Total						11.0			12.5					13.4						14.0																
			Fishery Closed except District 103 15 April to 2 June.																																	
	23	6/2-6/8	15.5	12.3	13.7		14.3		14.3	15.9	19.9	13.5	11.7			13.9											17.3	15.0	15.7	21.9	12.7	15.3				
	24	6/9-6/15	15.0	14.3	13.7	13.4	13.6	12.4	16.7	16.1	20.5	13.0	12.6	15.9	11.9											17.7	15.7	15.5	16.0	16.2	14.9	16.2	14.7	15.7		
	25	6/16-6/22	0.0						Fishery Closed 13 June to 1 July.																			7.6				17.1	13.3			
	26	6/23-6/29	9.1																															9.1		
	27	6/30-7/6	14.2	12.2	13.0	19.5	15.6	14.1	14.9	17.9		16.1	14.2	9.9	14.2		17.6	10.7	13.1	15.0	19.7	17.0	10.7	15.5	16.9	19.0	18.7	13.1	15.0	19.0	18.0	18.0				
	28	7/7-7/13	12.5	12.4	15.2	11.5	12.5		15.9	17.2		14.5	12.7	10.5	13.0		12.5	10.4	13.7	16.2	16.6	17.2	24.0	17.6	10.5	16.6	18.4	13.7	16.2	16.6	17.2	24.0	17.6	10.5		
	29	7/14-7/20	11.7	12.9	10.0	10.0	12.7	10.0	16.0	10.0	25.1	14.0	11.9	10.5	13.3		11.4	10.2	13.9	16.0	10.7	16.5	10.0	10.2	10.3	16.9	10.2	13.9	16.0	10.7	16.5	10.0	10.2	10.3		
	30	7/21-7/27	12.5	12.0	16.3	12.1	11.2		16.3	15.9		15.5	11.1	10.2	12.4			18.7	14.4	15.0	10.0		16.5	17.6	17.2	17.2	18.7	14.4	15.0	10.0						
	31	7/28-8/3							Fishery Closed 23 July to 25 August.																											23.5
	32	8/4-8/10	15.0														9.7												19.2	13.0				13.7		
	33	8/11-8/17																											22.0					22.0		
	34	8/18-8/24																																		
	35	8/25-8/31	10.3	10.2	12.9	10.0	13.2	13.5	10.7			15.3	12.6		12.4			10.0	15.3	16.5	17.5								15.1	13.1	15.0	15.0	18.0			
	36	9/1-9/7	5.0						Fishery Closed 26 August.													5.0														5.7
Summer District Total			13.0	12.9	14.0	12.3	13.7	12.7	15.6	16.9	20.6	14.3	12.3	12.2	13.0	13.5		10.3	14.6	17.0	10.0	17.0	16.5	16.9	17.1	17.5								16.7		
Area Total						13.2			16.0					13.1								17.7														
Season Total			12.7	12.5	13.4	12.2	13.2	12.3	14.9	16.0	20.6	14.3	12.5	12.7	13.1	14.0	13.4		10.2	14.6	17.0	10.0	17.0	16.5	16.9	17.1	17.5							16.4		

Appendix Table 9. Average weight (lb) of chinook salmon harvested by hand troll by district and statistical week, 1 October 1984 to August 1985.

Year	Stat. Week	Inclusive Dates	Southern Inside Districts						Southern Outside			Northern Inside Districts					Northern Outside Districts						Total					
			101	102	105	106	107	108	103	104	152	109	110	111	112	114	115	113	114	116	154	156		157	181	183	189	
1984	40	9/30-10/6	10.9	12.0	13.0		10.7	10.7		10.5		11.0	11.2		14.3		14.0											12.7
	41	10/7-10/13	10.6				11.0	10.5	9.0		10.8		11.7	12.9		13.4		14.3										13.1
	42	10/14-10/20	11.9	10.9			11.0	14.2		11.7		14.4	13.1		12.3		15.1											12.8
	43	10/21-10/27		11.7			15.0	12.6		9.7		23.0	12.8		13.0		14.1											13.5
	44	10/28-11/3	8.5	10.7			14.3	10.6		11.8		13.0	14.9		15.8		13.7											13.1
	45	11/4-11/10	11.3	13.6			17.0	10.7	12.3			13.8	14.4		17.3		11.8											14.0
	46	11/11-11/17	11.3					10.4	10.4				12.5		13.8		13.3											14.0
	47	11/18-11/24		10.3				12.6	12.2				22.2		26.0		11.3							11.6	12.6			11.8
	48	11/25-12/1	9.0	9.5			19.0	9.8	10.7		28.6		31.0		12.1		13.9											12.3
	49	12/2-12/8		20.2			11.1	10.1	10.1				16.4		13.4		14.2											13.3
	50	12/9-12/15	10.3					12.3	12.4		10.8		11.0		12.6		11.8											11.8
	51	12/16-12/22	9.0	12.3					11.4		11.7		12.0		16.4		13.6											13.6
	52	12/23-12/29							12.7		12.1		14.3		16.4		13.6											13.6
	1985	1	1/1-1/5						11.3						14.8		12.7											12.7
		2	1/6-1/12						10.3					9.2		15.5		14.0										12.6
		3	1/13-1/19					14.0	10.5	10.9		15.5	15.9		14.6		13.5											13.5
4		1/20-1/26	9.0			14.2	12.2	15.4	11.0					16.1		13.4												14.0
5		1/27-2/2	11.5	15.1			11.0	8.3	11.6			24.0	13.0		17.0		15.1											15.1
6		2/3-2/9					10.0	11.5	13.1			17.0	13.0		15.1		14.5									13.4	12.6	
7		2/10-2/16					14.0	14.5	10.5						11.6		11.0											11.4
8		2/17-2/23					16.9	12.0	10.8						15.5		15.7											13.5
9		2/24-3/2		8.0			16.3	12.5	12.0				15.5		17.5		15.6											14.5
10		3/3-3/9					10.5	10.0	11.3			15.0			15.0		12.2											12.7
11		3/10-3/16				11.9	20.5	16.0	11.4	13.3			17.0		18.4		22.0											13.0
12		3/17-3/23				13.4	15.7	11.4	13.3	10.7			8.5		19.2		33.5											14.9
13		3/24-3/30				12.1	10.3	13.0	11.9	10.9			28.0	13.3		17.1		13.8										14.1
14		3/31-4/6	10.0			10.9	16.3	13.5	15.2			18.2	11.0		14.3		16.0											14.4
15		4/7-4/13				14.6	15.7	17.5	11.0			13.2	24.0		17.5		7.5											13.8
16		4/14-4/20				13.4	13.0	15.7					14.4		14.8		10.2											14.5
Winter	District Total		11.1	12.4	12.9	14.4	11.3	11.6	11.5	13.2		14.6	13.0		13.2	14.6										11.9	13.3	
	Area Total					12.0			12.0					14.2							13.6							
			Fishery Closed except District 183 15 April to 2 June.																									
23	6/2-6/8	12.9	13.3	14.3	13.0	13.0		14.8	15.9		15.7	12.1		14.1		17.2	15.2	14.0							14.6	14.5		
24	6/9-6/15	13.3	13.7	13.5	15.3	13.6	15.4		14.3	15.6		13.4	12.3	15.8	13.8		16.0	15.3	15.5				14.3	14.3		14.1		
25	6/16-6/22	Fishery Closed 13 June to 1 July.																										
26	6/23-6/29																									0		
27	6/30-7/6	16.1	10.4	15.8	15.8	11.2	14.3	14.6	19.4		14.1	14.7	10.5	13.3		15.7	16.8	14.0	13.8						13.6	15.0		
28	7/7-7/13	12.4	13.7	11.8	11.3	13.4	12.1	14.8	16.2		15.7	13.3	11.4	13.0		11.0	17.4	13.8	15.5	19.9					15.6	14.3		
29	7/14-7/20	12.9	12.7	14.3	14.8	13.3	14.9	14.4	17.2		13.8	12.0	10.4	12.8		10.5	17.3	12.3	16.2						15.6	13.7		
30	7/21-7/27	12.7	11.6	13.4	10.8	14.7		15.0	17.5		13.9	11.9	9.0	12.2		9.8	18.0	12.6	15.7	17.3					15.3	13.9		
31	7/28-8/3	Fishery Closed 23 July to 25 August.																										
32	8/4-8/10													6.0												6		
33	8/11-8/17	11.0																								11		
34	8/18-8/24		16.7						23.3																	20.0		
35	8/25-8/31	10.6	15.6	13.5	12.2	7.0	9.3	13.2	18.3		14.5	11.1	10.0	11.0		12.0	18.4	13.2	18.0					13.5	14.5			
36	9/1-9/7	Fishery Closed 26 August.																										
Summer	District Total		13.3	12.8	13.3	14.5	13.4	13.7	14.6	17.0		14.6	12.5	11.3	12.9		11.2	17.3	14.1	14.8	19.4			14.3	15.0	14.3		
	Area Total					13.3			16.1					12.9							15.5							
Season Total			12.8	12.7	13.2	14.5	13.1	11.8	14.3	16.9		14.6	12.6	11.3	12.9	14.6	11.2	17.2	14.1	14.8	19.4			14.3	14.7	14.2		

Appendix Table 10. Average weight (lb) of chinook salmon harvested in Southeastern Alaska by purse seine gear, by district and statistical week, 1985.

Stat. Week	Date	Districts											Total	
		101	102	103	104	105	106	107	109	110	112	113		114
27	6/30-7/6										6.7			6.7
28	7/7-7/13	19.5			18.5						9.1			15.6
29	7/14-7/20	13.7	6.6		18.2					8.4	10.2	11.4	14.7	10.6
30	7/21-7/27	13.9	13.7		21.6					8.8	12.1	16.7	13.4	17.8
31	7/28-8/3	12.9	17.6		23.0			11.1	11.0	12.9	18.6	9.8		19.8
32	8/4-8/10	13.6	12.4		21.8	5.9		8.7	10.1	12.0	16.4			18.6
33 1/	8/11-8/17	12.0	10.0	20.8				8.0		7.8				11.2
34	8/18-8/24				28.7	6.5								27.3
35	8/25-8/31									20.0				20.0
District	Totals	13.6	7.8	20.8	21.5	5.9		10.0	9.6	10.0	16.4	13.3		16.5

1/ Fishery closed to the taking of chinook salmon after 12 August (Stat. Weeks 33, 34, 35).

Appendix Table 11. Average weight (lb) of chinook salmon harvested in Southeastern Alaska by gill net gear by district and statistical week, 1985.

Stat Week	Date	District					Total	
		101	102	106	108	111		
25	6/16-6/22	13.3		11.0		10.8	8.5	11.7
26	6/23-6/29	12.5		9.1		9.2	6.9	9.8
27	6/30-7/6	12.7		10.6		8.8	7.4	9.7
28	7/7-7/13	9.7		8.3		8.4	7.3	8.0
29	7/14-7/20	11.9		8.4		7.9	7.0	8.6
30	7/21-7/27	9.1		7.7		6.8	8.2	7.9
31	7/28-8/3	8.8		6.9	6.0	7.2	7.9	7.7
32	8/4-8/10	11.5	21.4	8.6		7.4	7.3	8.6
33	8/11-8/17	10.9		9.3		8.6	9.0	9.2
34	8/18-8/24	8.0		11.1	10.0	8.8	7.8	8.0
35	8/25-8/31	5.2		7.5		9.4	8.4	6.3
36	9/1-9/7	6.0		8.1	9.0	10.9	8.8	9.3
37	9/8-9/14	9.1		14.3	9.7	8.4	10.2	9.8
38	9/15-9/21	10.7		7.7		12.0	10.5	11.1
39	9/22-9/28			12.3		17.0	12.5	12.8
40	9/29-10/5						9.8	9.8
41	10/6-10/12						12.6	12.6
42	10/13-10/19						12.0	12.0
Total		11.2	21.4	8.6	6.9	8.9	7.6	9.1

Appendix Table 12. Age composition of chinook salmon sampled in conjunction with the troll observer project, 1985.

		Brood Year and Age Class										
		1983	1983	1982	1982	1981	1981	1980	1980	1979	1979	Total
		0.1	1.0	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4	
District 102	Statistical Weeks	37 - 38		(Sept. 8 - 21)								
	Sample Number	1		2								3
	Percent	33.3		66.7								100.0
	Std. Error			33.3								
District 106	Statistical Weeks	36 - 37		(Sept. 1 - 14)								
	Sample Number			9	2	5		1				17
	Percent			52.9	11.8	29.4		5.9				100.0
	Std. Error			12.5	8.1	11.4						
District 109	Statistical Week	37		(Sept. 8 - 14)								
	Sample Number			2	2		2		1		7	
	Percent			28.6	28.6		28.6		14.3		100.0	
	Std. Error			18.4	18.4		18.4					
District 110	Statistical Weeks	35 - 38		(August 25 - Sept. 21)								
	Sample Number	2	2		5	3	3		3		18	
	Percent	11.1	11.1		27.8	16.7	16.7		16.7		100.0	
	Std. Error	7.6	7.6		10.9	9.0	9.0		9.0			
District 113	Statistical Weeks	35 - 36		(August 25 - Sept. 7)								
	Sample Number	7	2	46	10	31	14	23	8	3	2	146
	Percent	4.8	1.4	31.5	6.8	21.2	9.6	15.8	5.5	2.1	1.4	100.0
	Std. Error	1.8	1.0	3.9	2.1	3.4	2.4	3.0	1.9	1.2	1.0	
District 114	Statistical Weeks	36 - 38		(Sept. 1 - 21)								
	Sample Number	1	2	6	11	5		2				27
	Percent	3.7	7.4	22.2	40.7	18.5		7.4				100.0
	Std. Error		5.1	8.2	9.6	7.6		5.1				

Appendix Table 13. Mean length at age for chinook salmon sampled in conjunction with the troll observer project, 1985.

		Brood Year and Age Class									
		1983	1983	1982	1982	1981	1981	1980	1980	1979	1979
		0.1	1.0	0.2	1.1	0.3	1.2	0.4	1.3	0.5	1.4
District 102	Statistical Weeks	37	- 38	(Sept. 8 - 21)							
	Avg. Length		235.0		485.0						
	Std. Error				50.0						
	Sample Size		1		2						
District 106	Statistical Weeks	36	- 37	(Sept. 1 - 14)							
	Avg. Length			654.4	577.5		699.0		875.0		
	Std. Error			16.0	52.5		10.0				
	Sample Size			9	2		5		1		
District 109	Statistical Week	37		(Sept. 8 - 14)							
	Avg. Length			567.5		635.0	647.5		665.0		
	Std. Error			7.5		25.0	62.5				
	Sample Size			2		2	2		1		
District 110	Statistical Weeks	35	- 38	(August 25 - Sept. 21)							
	Avg. Length	422.5		585.0	419.0	841.7	665.0		760.0		
	Std. Error	12.5		20.0	10.4	27.4	57.7		25.2		
	Sample Size	2		2	5	3	3		3		
District 113	Statistical Weeks	35	- 36	(August 25 - Sept. 7)							
	Avg. Length	416.3	252.5	622.4	464.8	787.4	680.6	870.7	782.3	936.7	915.0
	Std. Error	21.9	2.5	8.5	26.6	12.7	17.0	12.3	20.1	24.0	20.0
	Sample Size	7	2	46	10	31	14	23	8	3	2
District 114	Statistical Weeks	36	- 38	(Sept. 1 - 21)							
	Avg. Length	448.0	375.0	583.0	483.3		650.8		675.5		
	Std. Error		75.0	22.0	22.0		48.4		65.5		
	Sample Size	1	2	6	11		5		2		

Appendix Table 14. Little Tahltan River (108-80-120) weir count for chinook salmon, 1985.

		Number				Proportions	
Date	Small 1/	Large 2/	Daily Total	Cumulative	Daily	Cumulative	
July	4	9	49	58	58	0.01675	0.01675
	5	1	5	6	64	0.00173	0.01848
	6	1	14	15	79	0.00433	0.02281
	7	1	26	27	106	0.00780	0.03061
	8	2	82	84	190	0.02426	0.05487
	9	0	162	162	352	0.04678	0.10165
	10	0	69	69	421	0.01992	0.12157
	11	1	7	8	429	0.00231	0.12388
	12	0	8	8	437	0.00231	0.12619
	13	0	43	43	480	0.01242	0.13861
	14	0	26	26	506	0.00751	0.14612
	15	0	11	11	517	0.00318	0.14929
	16	0	22	22	539	0.00635	0.15565
	17	1	66	67	606	0.01935	0.17499
	18	5	233	238	844	0.06873	0.24372
	19	0	16	16	860	0.00462	0.24834
	20	4	92	96	956	0.02772	0.27606
	21	1	14	15	971	0.00433	0.28039
	22	3	39	42	1,013	0.01213	0.29252
	23	5	75	80	1,093	0.02310	0.31562
	24	2	37	39	1,132	0.01126	0.32688
	25	9	72	81	1,213	0.02339	0.35027
	26	9	111	120	1,333	0.03465	0.38493
	27	31	118	149	1,482	0.04303	0.42795
	28	4	74	78	1,560	0.02252	0.45048
	29	14	91	105	1,665	0.03032	0.48080
	30	20	306	326	1,991	0.09414	0.57494
	31	24	284	308	2,299	0.08894	0.66388
Aug	1	12	43	55	2,354	0.01588	0.67976
	2	9	184	193	2,547	0.05573	0.73549
	3	9	30	39	2,586	0.01126	0.74675
	4	14	189	203	2,789	0.05862	0.80537
	5	7	47	54	2,843	0.01559	0.82096
	6	39	219	258	3,101	0.07450	0.89547
	7	7	18	25	3,126	0.00722	0.90269
	8	12	66	78	3,204	0.02252	0.92521
	9	7	59	66	3,270	0.01906	0.94427
	10	5	36	41	3,311	0.01184	0.95611
	11	28	16	44	3,355	0.01271	0.96881
	12	4	30	34	3,389	0.00982	0.97863
	13	9	33	42	3,431	0.01213	0.99076
	14	1	6	7	3,438	0.00202	0.99278
	15	3	8	11	3,449	0.00318	0.99596
	16	1	4	5	3,454	0.00144	0.99740
	17	3	5	8	3,462	0.00231	0.99971
	18	0	1	1	3,463	0.00029	1.00000

Mean Date of Run = July 27; Variance (Days Squared) = 100.6.

- 1/ Presumed to be males (jacks).
 2/ Males and females.

Appendix Table 15. King Salmon River (111-17-010) weir count for chinook salmon, 1985.

Date	Number					Proportions	
	Females	Large Males	Small Males	Daily Total	Cumulative	Daily	Cumulative
July 3	1	0	0	1	1	0.00398	0.00398
4	0	0	1	1	2	0.00398	0.00797
5	2	1	1	4	6	0.01594	0.02390
6	2	2	2	6	12	0.02390	0.04781
7	0	0	1	1	13	0.00398	0.05179
8	0	2	1	3	16	0.01195	0.06375
9	1	1	1	3	19	0.01195	0.07570
10	1	2	2	5	24	0.01992	0.09562
11	5	5	1	11	35	0.04382	0.13944
12	0	2	5	7	42	0.02789	0.16733
13	0	12	0	12	54	0.04781	0.21514
14	0	8	3	11	65	0.04382	0.25896
15	4	5	1	10	75	0.03984	0.29880
16	16	15	5	36	111	0.14343	0.44223
17	7	8	1	16	127	0.06375	0.50598
18	7	16	5	28	155	0.11155	0.61753
19	16	15	8	39	194	0.15538	0.77291
20	4	7	2	13	207	0.05179	0.82470
21	4	2	0	6	213	0.02390	0.84861
22	2	5	0	7	220	0.02789	0.87649
23	0	0	0	0	220	0.00000	0.87649
24	1	2	0	3	223	0.01195	0.88845
25	1	1	2	4	227	0.01594	0.90438
26	0	0	1	1	228	0.00398	0.90837
27	6	1	0	7	235	0.02789	0.93625
28	0	2	2	4	239	0.01594	0.95219
29	5	5	2	12	251	0.04781	1.00000

Mean Date of Run = July 17; Variance (Days Squared) = 29.3.

Appendix Table 16. Nakina River (111-32-220) carcass weir count for chinook salmon, 1985.

Date	Number				Proportions	
	Male	Female	Daily Total	Cumulative	Daily	Cumulative
August 2	2	1	3	3	0.00116	0.00116
3	5	5	10	13	0.00386	0.00502
4	16	21	37	50	0.01430	0.01932
5	0	2	2	52	0.00077	0.02009
6	23	15	38	90	0.01468	0.03478
7	38	27	65	155	0.02512	0.05989
8	47	28	75	230	0.02898	0.08887
9	66	27	93	323	0.03594	0.12481
10	83	28	111	434	0.04289	0.16770
11	99	78	177	611	0.06839	0.23609
12	83	68	151	762	0.05835	0.29444
13	143	81	224	986	0.08655	0.38099
14	141	79	220	1,206	0.08501	0.46600
15	148	67	215	1,421	0.08308	0.54907
16	180	102	282	1,703	0.10896	0.65804
17	137	67	204	1,907	0.07883	0.73686
18	97	46	143	2,050	0.05526	0.79212
19	84	49	133	2,183	0.05139	0.84351
20	70	43	113	2,296	0.04366	0.88717
21	63	27	90	2,386	0.03478	0.92195
22	61	19	80	2,466	0.03091	0.95286
23	43	5	48	2,514	0.01855	0.97141
24	23	4	27	2,541	0.01043	0.98184
25	28	1	29	2,570	0.01121	0.99304
26	9	3	12	2,582	0.00464	0.99768
27	5	1	6	2,588	0.00232	1.00000

Appendix Table 17. Little Tatsamenie Lake (111-32-254) weir count for chinook salmon, 1985.

Date	Number		Proportions	
	Daily Total	Cumulative	Daily	Cumulative
Aug. 9	1	1	0.00301	0.00301
10	1	2	0.00301	0.00602
11	0	2	0.00000	0.00602
12	3	5	0.00904	0.01506
13	2	7	0.00602	0.02108
14	3	10	0.00904	0.03012
15	13	23	0.03916	0.06928
16	5	28	0.01506	0.08434
17	13	41	0.03916	0.12349
18	16	57	0.04819	0.17169
19	6	63	0.01807	0.18976
20	45	108	0.13554	0.32530
21	3	111	0.00904	0.33434
22	18	129	0.05422	0.38855
23	8	137	0.02410	0.41265
24	24	161	0.07229	0.48494
25	1	162	0.00301	0.48795
26	5	167	0.01506	0.50301
27	37	204	0.11145	0.61446
28	86	290	0.25904	0.87349
29	10	300	0.03012	0.90361
30	25	325	0.07530	0.97892
31	5	330	0.01506	0.99398
Sept. 1	0	330	0.00000	0.99398
2	1	331	0.00301	0.99699
3	0	331	0.00000	0.99699
4	0	331	0.00000	0.99699
5	0	331	0.00000	0.99699
6	0	331	0.00000	0.99699
7	0	331	0.00000	0.99699
8	1	332	0.00301	1.00000

Mean Date of Run = Aug 24; Variance (Days Squared) = 25.3.

Appendix Table 18. Hackett River (111-32-260) weir count for chinook salmon, 1985.

Date	Number		Proportions	
	Daily Total	Cumulative	Daily	Cumulative
Aug. 5	6	6	0.01382	0.01382
6	9	15	0.02074	0.03456
7	41	56	0.09447	0.12903
8	85	141	0.19585	0.32488
9	12	153	0.02765	0.35253
10	24	177	0.05530	0.40783
11	55	232	0.12673	0.53456
12	29	261	0.06682	0.60138
13	81	342	0.18664	0.78802
14	65	407	0.14977	0.93779
15	8	415	0.01843	0.95622
16	10	425	0.02304	0.97926
17	3	428	0.00691	0.98618
18	3	431	0.00691	0.99309
19	2	433	0.00461	0.99770
20	0	433	0.00000	0.99770
21	1	434	0.00230	1.00000

Mean Date of Run = Aug 11; Variance (Days Squared) = 8.6.

Appendix Table 19. Klukshu (182-30-200) weir count for chinook salmon, 1985.

Date	Number		Proportions		Date	Number		Proportions	
	Daily Total	Cumulative	Daily	Cumulative		Daily Total	Cumulative	Daily	Cumulative
June 19	2	2	0.00137	0.00137	Aug 1	36	1,333	0.02471	0.91489
20	0	2	0.00000	0.00137	2	22	1,355	0.01510	0.92999
21	0	2	0.00000	0.00137	3	5	1,360	0.00343	0.93342
22	0	2	0.00000	0.00137	4	15	1,375	0.01030	0.94372
23	0	2	0.00000	0.00137	5	5	1,380	0.00343	0.94715
24	0	2	0.00000	0.00137	6	4	1,384	0.00275	0.94990
25	4	6	0.00275	0.00412	7	0	1,384	0.00000	0.94990
26	0	6	0.00000	0.00412	8	0	1,384	0.00000	0.94990
27	0	6	0.00000	0.00412	9	0	1,384	0.00000	0.94990
28	4	10	0.00275	0.00686	10	1	1,385	0.00069	0.95058
29	0	10	0.00000	0.00686	11	0	1,385	0.00000	0.95058
30	0	10	0.00000	0.00686	12	0	1,385	0.00000	0.95058
July 1	0	10	0.00000	0.00686	13	5	1,390	0.00343	0.95402
2	2	12	0.00137	0.00824	14	16	1,406	0.01090	0.96500
3	0	12	0.00000	0.00824	15	7	1,413	0.00480	0.96980
4	0	12	0.00000	0.00824	16	9	1,422	0.00618	0.97598
5	0	12	0.00000	0.00824	17	1	1,423	0.00069	0.97666
6	3	15	0.00206	0.01030	18	0	1,423	0.00000	0.97666
7	2	17	0.00137	0.01167	19	0	1,423	0.00000	0.97666
8	5	22	0.00343	0.01510	20	0	1,423	0.00000	0.97666
9	6	28	0.00412	0.01922	21	0	1,423	0.00000	0.97666
10	7	35	0.00480	0.02402	22	2	1,425	0.00137	0.97804
11	8	43	0.00549	0.02951	23	0	1,425	0.00000	0.97804
12	3	46	0.00206	0.03157	24	0	1,425	0.00000	0.97804
13	4	50	0.00275	0.03432	25	0	1,425	0.00000	0.97804
14	2	52	0.00137	0.03569	26	0	1,425	0.00000	0.97804
15	72	124	0.04942	0.08511	27	1	1,426	0.00069	0.97872
16	74	198	0.05079	0.13590	28	26	1,452	0.01784	0.99657
17	69	267	0.04736	0.18325	29	0	1,452	0.00000	0.99657
18	98	365	0.06726	0.25051	30	0	1,452	0.00000	0.99657
19	199	564	0.13658	0.38710	31	3	1,455	0.00206	0.99863
20	27	591	0.01853	0.40563	Sept. 1	0	1,455	0.00000	0.99863
21	57	648	0.03912	0.44475	2	0	1,455	0.00000	0.99863
22	97	745	0.06658	0.51132	3	1	1,456	0.00069	0.99931
23	117	862	0.08030	0.59163	4	0	1,456	0.00000	0.99931
24	39	901	0.02677	0.61839	5	0	1,456	0.00000	0.99931
25	135	1036	0.09266	0.71105	6	0	1,456	0.00000	0.99931
26	30	1066	0.02059	0.73164	7	0	1,456	0.00000	0.99931
27	35	1101	0.02402	0.75566	8	0	1,456	0.00000	0.99931
28	63	1164	0.04324	0.79890	9	0	1,456	0.00000	0.99931
29	108	1,272	0.07412	0.87303	10	0	1,456	0.00000	0.99931
30	14	1,286	0.00961	0.88264	11	1	1,457	0.00069	1.00000
31	11	1,297	0.00755	0.89019					

Mean Date of Run = July 24; Variance (Days Squared) = 79.2.

Appendix Table 20. Situk River (182-70-010) weir count for chinook salmon, 1985.

Date	Number		Proportions	
	Daily Total	Cumulative	Daily	Cumulative
June 24	1	1	0.00050	0.00050
25	3	4	0.00151	0.00202
26	0	4	0.00000	0.00202
27	4	8	0.00202	0.00404
28	0	8	0.00000	0.00404
29	9	17	0.00454	0.00858
30	23	40	0.01160	0.02018
July 1	18	58	0.00908	0.02926
2	1	59	0.00050	0.02977
3	3	62	0.00151	0.03128
4	58	120	0.02926	0.06054
5	39	159	0.01968	0.08022
6	17	176	0.00858	0.08880
7	11	187	0.00555	0.09435
8	13	200	0.00656	0.10091
9	14	214	0.00706	0.10797
10	14	228	0.00706	0.11504
11	29	257	0.01463	0.12967
12	6	263	0.00303	0.13269
13	32	295	0.01615	0.14884
14	1	296	0.00050	0.14934
15	64	360	0.03229	0.18163
16	37	397	0.01867	0.20030
17	20	417	0.01009	0.21039
18	51	468	0.02573	0.23613
19	30	498	0.01514	0.25126
20	83	581	0.04188	0.29314
21	0	581	0.00000	0.29314
22	52	633	0.02624	0.31937
23	21	654	0.01060	0.32997
24	57	711	0.02876	0.35873
25	62	773	0.03128	0.39001
26	18	791	0.00908	0.39909
27	26	817	0.01312	0.41221
28	48	865	0.02422	0.43643
29	36	901	0.01816	0.45459
30	73	974	0.03683	0.49142
31	64	1,038	0.03229	0.52371
Aug. 1	20	1,058	0.01009	0.53380
2	71	1,129	0.03582	0.56963
3	10	1,139	0.00505	0.57467
4	57	1,196	0.02876	0.60343
5	151	1,347	0.07619	0.67962
6	212	1,559	0.10696	0.78658
7	35	1,594	0.01766	0.80424
8	41	1,635	0.02069	0.82492
9	63	1,698	0.03179	0.85671
10	24	1,722	0.01211	0.86882
11	28	1,750	0.01413	0.88295
12	62	1,812	0.03128	0.91423
13	113	1,925	0.05701	0.97124
14	17	1,942	0.00858	0.97982
15	34	1,976	0.01715	0.99697
16	6	1,982	0.00303	1.00000

Mean Date of Run = July 28; Variance (Days Squared) = 154.0

Appendix Table 21. Number of chinook salmon sampled in the Nakina River, by sex and length group, for age (scales) and length data, 1985.

Males								
Mid-Eye to Fork Length	Number Sampled For Length	Number Sampled for Scale Data by Age Class						Total
		1.0	1.1	1.2	1.3	1.4	1.5	
175-199	0							0
200-224	0							0
225-249	0							0
250-274	11		11					11
275-299	51	1	18	1				20
300-324	235		6					6
325-349	241		9					9
350-374	139		15	3				18
375-399	37		12	11	1			24
400-424	13			2	1			3
425-449	11			11	1			12
450-474	19			12	1			13
475-499	27			23	5			28
500-524	43			21				21
535-549	45			28	1			29
550-574	58			26	5			31
575-599	48			30	4			34
600-624	50			23	10			33
625-649	38			16	15			31
650-674	53			3	16	1		20
675-699	60			4	17	1		22
700-724	72				17			17
725-749	77			1	19	3		23
750-774	81				21	3		24
775-799	55			1	32	4		37
800-824	48				12	5		17
825-849	35				8	13		21
850-874	25			1	3	6		10
875-899	37				7	11		18
900-924	32				4	13		17
925-949	23				2	13		15
950-974	23				2	7		9
975-999	13					6		6
1000-1024	2					2		2
Total	1,702	1	71	217	204	88	0	581

Females								
Mid-Eye to Fork Length	Number Sampled For Length	Number Sampled for Scale Data by Age Class						Total
		1.0	1.1	1.2	1.3	1.4	1.5	
575-599	0							0
600-624	0							0
625-649	0							0
650-674	0							0
675-699	5				3			3
700-724	22				20	3		23
725-749	59			1	20	4		25
750-774	108				17	9		26
775-799	137				8	8		16
800-824	146				6	9		15
825-849	160				2	8		10
850-874	132				2	18		20
875-899	69				1	29	1	31
900-924	33				1	14		15
925-949	18					6		6
950-974	7					2		2
975-999	1					1		1
Total	897	0	0	1	80	111	1	193

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