SALMON AGE, SEX AND LENGTH CATALOG FOR THE KUSKOKWIM AREA, 1996-1997 Progress Report

By

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and

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PREFACE

Over the years the Alaska Department of Fish and Game (ADF&G) has invested substantial resources into collecting and processing salmon age, sex and length (ASL) information from the Kuskokwim Area. From 1962 to 1981 results were presented annually in the *ADF&G Salmon Age, Sex, and Size Composition* report series. That series was replaced with the *Kuskokwim Management Area Salmon Catch and Escapement Statistics* annual report series from 1982 through 1989. ASL information often appears in other documents as well, such as project reports and annual management reports. In nearly all of these documents only current year data is presented, consequently making inter-annual comparisons is cumbersome. As a result, us of the ASL database has been limited.

Efforts to compile all historical salmon ASL information into a single report began in 1995 with the publication of the *Salmon Age, Sex and Length Catalog for the Kuskokwim Area, 1995 Progress Report* (Molyneaux and DuBois 1996). The *1995 Progress Report* was not an exhaustive compilation of all historical ASL data, but included summaries that could be compiled given available resources. Additional historical information has been included in this updated report, but the document is still incomplete. For locations and species, (e.g., W4 chinook salmon or Middle Fork Goodnews River Weir sockeye salmon) many years of ASL data exist but only a few years are presented in this report. Summaries of length information especially are often absent for specific years. As resources allow, additional historical information will be processed and added to future *Progress Reports*.

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INTRODUCTION

The Kuskokwim Management Area encompasses waters from Cape Newenham to the westernmost point of Naskonat Peninsula, including the waters around Nunivak and St. Matthew Islands (Figure 1). The Kuskokwim, Kanektok, and Goodnews Rivers are the primary salmon producing systems. These rivers drain into Kuskokwim Bay and support runs of chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, chum *O. keta*, pink *O. gorbuscha*, and coho salmon *O. keta*. All five of these salmon species are harvested in commercial, subsistence and sport fisheries in the area.

Mature salmon begin to leave marine estuaries and enter freshwater streams of the Kuskokwim Area by late May. Chinook salmon are the first species to arrive, and the bulk of the chinook runs enter freshwater environments by early July. Small numbers of chinook continue to arrive into August (Molyneaux 1997). Most sockeye salmon arrive between mid June and late July. The Kuskokwim River sockeye run, however, is more compressed than the Kuskokwim Bay runs, with the majority of fish entering the lower river by early July. Chum salmon enter freshwater between mid June and late July. A relatively small but distinct late running population of chum salmon can be found passing through the lower Kuskokwim River by mid July (Appendix A), however little is known about these late spawning fish. Pink salmon appear in area streams during July and early August and demonstrate strong even-year dominance (Burkey et al 1997). Coho salmon begin to enter freshwater in late July with the bulk of the entry completed by early September (Molyneaux 1997). Small numbers of coho salmon reportedly continue to enter rivers late into the fall and early winter when the rivers are iced over.

Escapement Monitoring

Annual assessments of salmon spawning escapements are monitored in the Kuskokwim Area by means of weirs, counting towers, sonar projects and aerial surveys (Burkey et al 1997). The ground based weir, tower and sonar projects typically include some form of ASL sampling program whereby salmon are captured with beach seines, traps or by hook and line for the purpose of collecting ASL data. In some instances carcass sampling may be employed. Streams with the longest histories of ground based escapement monitoring include the Kogrukluk[2] (1969-1997), Aniak (1980-94, 1996-97) and Middle Fork Goodnews Rivers (1981-97; Figure 1). Other streams with less extensive monitoring histories include the South Fork Salmon (1982-83), Takotna (1995 - 1997), George (1996 - 1997), Tuluksak (1991 - 1994), Kwethluk (1992; 1996-1997) and Kanektok (variable) Rivers. An overview of these projects was presented to the Alaska Board of Fisheries by Burkey et al (1997).

Most escapement monitoring projects are, or were, operated from mid June through late July of each year. This timing typically encompasses the bulk of chinook, chum and sockeye runs, but only

[2] The Kogrukluk River weir is also referred to as the Ignatti weir and the Holitna River weir.

a fraction of the pink and coho runs. The primary exception is the Kogrukluk River weir, which has been operated through the coho season nearly every year since 1981. Pink salmon counts at Kogrukluk River are incomplete because of the wide spacing of the weir pickets (Cappiello and Burkey 1997). Tuluksak and Kwethluk River weirs, which were operated in 1991-1994 and 1992 respectively, were also maintained through the pink and coho seasons. More recently, the George and Middle Fork Goodnews River weir projects were continued through most of the 1997 pink and coho runs.

A late run of chum salmon occurs in the Kuskokwim River, but they are not incorporated into any escapement monitoring program. Their existence is documented through subsistence reports (Stokes 1983, 1985), personal communication with area residents (Appendix B), aerial surveys (Appendix C), and genetic baseline collections (Seeb et al 1997). The population is assumed to be relatively small, although it was estimated to comprise about 12% (±4%) of a random mixed stock commercial catch sample collected at Bethel on July 17, 1996 (Appendix A). These late run chum salmon spawn in September and October rather than July and August as is characteristic of other Kuskokwim Area chum populations. Spawning grounds have only been documented as occurring in a few large upper Kuskokwim basin tributaries such as the Big River, Middle Fork, Pitka Fork and South Fork Kuskokwim Rivers (Figure 1). Visibility in these streams is limited due to suspension of glacial sediments. Chum salmon were found spawning in side channels where visibility was less occluded. The late spawning Kuskokwim chum salmon are genetically distinct from Yukon River fall chums, although their run timing and spawning behavior appear similar (Appendix A). No ASL information is available which is specific to the late run chum salmon of the Kuskokwim River, but they are undoubtedly included in the mixed stock commercial samples from the lower Kuskokwim River.

Commercial Fisheries

Commercial salmon fishing occurred in the Kuskokwim area prior to 1900, but the fish were mostly sold or traded for local consumption (Zagoskin [1847] 1967, Oswalt 1990). The growing number of dog teams used by miners and postal carriers near the turn of the century expanded local markets for salmon to use as dog feed, but the numbers are undocumented (Pennoyer et al.1965). The earliest export commercial salmon fishery occurred in Kuskokwim Bay in 1913. The Kuskokwim River was closed to the commercial export of fish until 1935. The river was again closed, or restricted, throughout much of the 1950's due to concerns of over-exploitation voiced by subsistence fishers. Prior to statehood, harvests were often undocumented, although effort was relatively low until export markets improved in the 1970's (Burkey et al. 1997).

The Kuskokwim Salmon Management Area is currently divided into four commercial fishing districts (Figure 1). The boundaries of these districts have shifted over the years and the changes are described in annual management reports (Burkey et al 1998). Notwithstanding the boundary changes, District 1 is located in the lower Kuskokwim River and currently extends from Kuskokwim Bay to Bogus Creek, a distance of over 200 km (130 mi). District 2 spans a distance of about 100 km (65 mi) in the middle Kuskokwim River, currently from a point near Kalskag

and extending upstream to Chuathbaluk. Since 1988, Districts 1 and 2 have been separated by a section of river about 75 km (46 mi) in length which is closed to commercial fishing. Prior to 1966, all waters above District 2 were referred to as District (or subdistrict) 3. In 1966 District 3 was deleted from the regulations, and since that time, the upper Kuskokwim River has been closed to commercial fishing (Francisco et al. 1995). District 4 is located in the marine waters of Kuskokwim Bay near the community of Quinhagak. The Kanektok River is the principle salmon producing stream for District 4. District 5 is located in Goodnews Bay and is managed as a terminal fishery supported by the salmon production of the Goodnews River.

Drift gillnets are the principal gear type used in all Kuskokwim Area commercial salmon fisheries, although set gillnets were common in some locations during the early development of the fisheries. Prior to 1985, commercial fishers in the Kuskokwim River were unrestricted with respect as to the gillnet mesh size they used, and many chose 8 or 8.5 inch (20 or 22 cm) mesh sizes during the June chinook fishery (Burkey et al 1997). Commercial gillnets are currently restricted in all Kuskokwim Area commercial fishing districts to a mesh size not to exceed 6 inches (15.2 cm), length of 50 fathoms, and a depth of 45 meshes. The mesh size restriction has been imposed in the Kuskokwim River since 1985 as an effort to improve declining chinook escapements. Commercial fishers in Kuskokwim Bay districts have been restricted to 6 inches or smaller mesh sizes since the inception of those fisheries. Results from commercial catch sampling described in this report are from restricted mesh openings unless stated otherwise.

The commercial fisheries in Districts 1 and 2 are currently directed at chum salmon in June and July and coho salmon in August (Burkey et al. 1997). Prior to 1987, the fisheries were directed at chinook salmon in June, but that practice was discontinued because of declining chinook salmon escapements in the mid-1980's. The directed chinook salmon commercial fishery has remained closed in the Kuskokwim River in order to maintain historical levels of subsistence use of the species. Currently, the commercial harvest of chinook and sockeye salmon from the Kuskokwim River is considered incidental to chum salmon.

In contrast, chinook and sockeye salmon are targeted by commercial fishers in District 4 during June and July while coho are the focus in August. Chum salmon catches are considered incidental in District 4. The District 5 commercial fishery is currently directed at sockeye in June and July, and coho salmon in August. Historically, chinook salmon were also targeted in District 5, but declining run size has shifted the management strategy towards a chinook salmon rebuilding plan which prohibits a directed commercial fishery for chinook salmon.

Subsistence Fisheries

The subsistence harvest of fish and wildlife is a prominent and vital element to the life style of residents in the Kuskokwim Area (Oswalt 1990, Coffing 1991 and 1997). Over 1,300 families participate in subsistence salmon fishing (Burkey et al. 1997). Alaska state law mandates that

subsistence use of fish populations has priority over other uses (AS 16.05.258). Subsistence fishing occurs throughout the Kuskokwim Area, but the majority of effort takes place in the lower 219 km (136 mi) of the Kuskokwim River (District 1). Traditionally, most subsistence harvest focused on chum salmon for feeding sled dogs which were used for winter transportation. But the subsistence harvest of chum salmon has declined as snow machines and airplanes replaced sled dogs as the primary means of winter transportation. The average chum salmon harvest decreased from 200,000 in the 1960's to less than 100,000 in the 1990's (Burkey et al. 1997). Subsistence harvest of chinook salmon, especially large chinook salmon, are used more for human consumption. The average subsistence chinook harvest has increased from about 33,000 in the 1960's to over 85,000 in the 1990's (Burkey et al. 1997).

The gear types used by subsistence salmon fishers include drift and set gillnets, fish wheels, rod and reel, seines and spears (Burkey et al. 1997). Drift gillnets are overwhelmingly the most common contemporary gear type in use (Coffing 1997). Unlike commercial fishing, there is no restriction on the mesh size used in subsistence gillnets. Many fishers choose 8.0 or 8.5 inch (20 or 22 cm) mesh sizes to target larger chinook salmon. The 1994 annual subsistence survey of the Kuskokwim Area included information about the gillnet mesh sizes fishers used to harvest chinook salmon (Francisco et al. 1995). Of 497 respondents, 51 percent reported that they used 8.0 inch mesh or larger, 44 percent used 6.0 inch mesh or smaller, and 5 percent used a mesh size between 6 and 8 inches.[3] These results are comparable to those reported in 1967 where of 588 fishing families surveyed, 517 reported using 'king nets' and 513 reported using 'chum nets' for subsistence fishing (ADF&G 1968).

Sport Fisheries

The sport fishing level activity is relatively low in the Kuskokwim Area as a whole, still moderate effort does occur in a few specific locations such as the Kanektok, Goodnews, Kisaralik and Aniak Rivers. These streams account for the majority of total angler-days reported for the Kuskokwim Area (Howe et al. 1996). Professional guiding outfits focus mostly on these four river systems, but there is a growing number of guides expanding into other locations such as the Holitna, George, Oskawalik and Holokuk Rivers. There is also a growing number of local area residents using rod and reel gear. While technically regulated as sport fishers, many of these local individuals identify their rod and reel catches as part of their subsistence harvest and report it as such (Stokes 1985 and Coffing 1991). Indeed, in some parts of the Kuskokwim Area the concept of 'sport' or 'recreational' fishing is commonly viewed as a contemptuous practice which is disrespectful of the fish (i.e., an important food source) and associated negatively with encroachment by non-locals. This perception obscures harvest documentation and the distinction of rod and reel as a sport-fish only gear type (Stokes 1985). This distinction has been divisive and formally called into question at the 1997 Alaska Board of Fisheries meeting in Fairbanks.

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[3] Francicso et al. (1995) list the total respondents to the gillnet mesh size question as 490 (p 28 and Table 26), however as per discussion with Michael Coffing, the actual number of respondents is 497. The percentages presented in this report have been corrected accordingly.

METHODS

The ASL composition of a returning salmon population often changes over the course of the season when observed from a given location, such as escapement monitoring projects and in-river fishing districts. Each year, salmon are sampled at these locations to estimate the age, sex and length compositions of the respective catches or escapements. Pulse samples of ASL information are collected periodically over the duration of the run to account for the temporal dynamics of populations. Ideally, a series of several well distributed pulse samples are collected for each species and each project or fishery. Each series should include a minimum of three pulse samples representative of the early, middle and late portions of the run. Collecting additional pulse samples allows for greater resolution in detecting temporal changes and greater reliability in characterizing the true composition of the escapement or catch. For populations whose ASL composition changes over the course of the season, pulse sampling has a greater power of detecting that change than does random sampling, systematic sampling, or two closely spaced "grab" samples (Geiger and Wilbur 1990).

Each pulse sample is assigned to a temporal segment, or strata, of the run which the sample is intended to characterize. The age-sex composition of the sample is then applied to the fish passage, or harvest, that occurs in each strata. This yields an estimate of the number of fish, of each age-sex class in the harvest or escapement for each strata. The apportioned fish in each strata are then summed by age and sex to estimate the age and sex composition of the population for the entire season. Average fish length for the season is described by age and sex, and derived by weighting the average length in each strata by the number of fish represented by that strata. These procedures yield weighted seasonal estimates of the salmon ASL composition for each project or fishery.

Sample Collection

Sample Size

Since 1991, the Kuskokwim Area staff have followed the convention described by Bromaghin (1993) for sample size determination in each pulse. The objectives are as follows: 210 chinook, 210 sockeye, 200 chum and 170 coho salmon. The sample sizes vary between species due to differences in the number of major age-sex groupings that need to be distinguished. These sample sizes were selected so that the 95 percent confidence intervals for simultaneous estimates of age composition proportions would be no wider than 0.10 (α = 0.05 and d = 0.10). Recommended sample sizes were increased by 8 to 9 percent to account for fish whose age could not be determined due to sampling error or illegible scales. Considering the dynamics of the ASL composition, the need for achieving the sample goals must be weighed against the need for

collecting each pulse sample over a relatively brief period of time. Consequently, the sample goals serve as guidelines rather than rigid requirements.

General Sampling Procedures

Sampling routine includes the removal of scales from the preferred area of the fish for use in age determination (INPFC 1963). Generally one scale is taken from each sockeye and chum salmon, however three scales are taken from chinook and coho salmon to account for regeneration of freshwater annuli. All scales are mounted on gum cards. Except where noted, sex is determined by visually examining external morphological characteristics such as on the development of the kype, roundness of the belly and the presence or absence of an ovipositor. Length is measured to the nearest millimeter from mid-eye to the fork of the tail. Data is recorded on computer mark-sense forms or logged electronically on a computerized fish measuring board. Data from the 1960's and early 1970's was recorded on tally sheets. The original scale cards, acetates and data forms are archived at the ADF&G office in Anchorage.

Escapement Sampling

Escapement ASL samples are collected from salmon passing weirs, counting towers, and tributary sonar sites. The goal is to estimate the seasonal ASL composition of the spawning population of a given tributary. Weir samples are generally obtained from traps built into the weir. Beach seines or gillnets are used at counting towers and sonar sites. The sample sizes and sampling frequency have varied over the years. During some years, a small number of fish were sampled each day, while in other years, a larger daily sample was taken until a pre-determined sample size was achieved for the week. Since 1993, area staff have moved towards the latter method whereby fish are sampled in pulse samples over a short time interval (i.e., one to several days) followed by a number of days without sampling. These pulse samples are taken several times throughout the season to create a series of "snap-shots" of the ASL composition.

Commercial Catch Sampling

Commercial salmon harvest is sampled for ASL data as fishers deliver their catch to floating and shore-based processors located near Bethel, Quinhagak and in Goodnews Bay. The goal is to estimate the seasonal ASL composition of the population of fish harvested in the District 1, 4 and 5 commercial fisheries. Commercial catches are generally sampled after the salmon are off-loaded from the fishing boats. Off-loading crews typically place each salmon in a species-specific tote with no regard to sex, size or stage of maturity. ADF&G's sampling crews sample fish from these totes. In Kuskokwim Bay, however, the crews sometimes obtain samples from the tender hold or individual boats as deliveries are made. In either case, the sample from each day generally includes fish from several boats, but this variable is not monitored and in some instances a sample may come from as few as two or three boats. Samples from Kuskokwim Bay have a greater likelihood of coming from small numbers of deliveries because of the limited

resources available for collecting samples. The mesh size used by fishers vary, but it is assumed to be within the legal range of specifications. Time and logistical constraints prohibit interviewing fishers for information regarding mesh size or the exact location at which the fish were caught. Department crews are instructed to sample in a manner which guards against size or sex bias. This usually entails sampling all the fish from an individual tote.

Subsistence Catch Sampling

The chinook harvest of a few subsistence fishers are typically sampled each year. Most samples are collected from the Bethel area, but in a few instances, samples have also been collected from the Aniak area. Prior to 1992, samples were limited to scales removed from fish which were hanging on drying racks. Sex and length could not be determined and details about the harvest method were lacking. In 1992, fish were sampled in the round and consequently included sex and length information. In 1993 through 1995, a small group of subsistence fishers was recruited to collect ASL data from their catches. The fishers collected three scales from each fish, and recorded sex as determined by internal examination of gonads, length using a meter stick, gear type (set net or drift gillnet), mesh size, date of capture and location of capture. Fishers received monetary compensation for the samples. The program was discontinued following difficulties in recruiting participants in 1996.

Data Processing and Reporting

Age Determination

Age is determined from the annuli of scales taken from the preferred area of the fish (INPFC 1963). The scales, which are mounted on gum cards, are impressed in cellulose acetate using methods described by Clutter and Whitesel (1956). The scale impressions are magnified with a microfiche reader and age is determined through visual identification of annuli. Ages are reported on data forms or directly entered into computer ASCII files. Since 1985, all ages have been recorded using European notation[4]. Prior to 1985, the Gilbert-Rich notation[5] was used. In this report all ages are reported in European notation.

Computer Processing Format

ASL information from recent years is recorded on computer mark-sense forms which are processed through an OPSCAN machine to produce ASCII computer files. Data from the fish measuring board is parsed to produce ASCII files comparable to those derived from mark-sense forms. The ASCII files are then processed through a number of programs to produce various

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[4] In European notation two digits are separated by a decimal and refer to the number of freshwater and marine annuli respectively. The first digit represents the freshwater age minus one. The second digit represents the number of annuli formed during the marine residency. Total age from brood year is the sum of the two ages plus one.

[5] In Gilbert-Rich notation two digits are listed without a decimal. The first digit represents the total years of life at maturity and the second number, which is usually subscripted, denotes the years of life at out-migration from freshwater.

summaries. One summary focuses on the age and sex composition, another focuses on length statistics by age and sex. Where applicable, the information is applied to escapement and catch data to provide an estimate of the total age, sex and length composition of those populations. A more streamlined computer program was developed in 1997 by biometrics staff which greatly simplifies ASL processing.

Strata Determination

A stratum, as most often used in this report, is a time interval during which fish pass a given point such as a weir or tower project, or are harvested from a given location such as District 1. The time interval usually spans approximately 7 days, but the interval may vary from one stratum to the next (e.g., chinook passage at Kogrukluk River weir from 20 through 27 June, or District 5 sockeye harvested from 1 through 18 July). The entire season is partitioned into a set of several strata based on the number and temporal distribution of ASL samples. Collectively, the strata set for a given species encompass the entire annual passage or harvest at a given location.

The ASL composition of a stratum is estimated from fish that are sampled at some time within a stratum. The samples may have been taken evenly throughout the stratum, from the mid-point, or weighted towards one end of the time interval. The sample distribution is driven by fish abundance and the availability of resources to sample the fish. For example, early in the season when fish abundance is low for a given species, a stratum may span ten to twenty days although most of the samples are collected from only the last few days when the crew was able to catch fish for sampling. For this reason, tables used in this report list both the sample dates and the stratum dates.

Although samples are collected with a strata framework in mind, the final partitioning occurs post-season when the distribution of samples can be viewed in context with the overall distribution of the population. Given that sample sizes often fall short of the ideal, the partitioning is subjective. The guiding philosophy is that the information be presented in a manner that allows users of the data to decide whether pooling strata with small sample sizes is warranted given the specific needs.

Generally the season ASL composition for escapement or harvest populations is estimated only when the distribution of samples allow, at a minimum, strata representing each third of the annual passage or harvest. This rule of thirds is necessary due to seasonal dynamics in the ASL composition of most species. When the rule is not met, the sample results are presented but no season estimates are reported. The rule does not apply to season estimates of commercial harvest when fewer than three commercial fishing periods occurred in a season (e.g., District 1 chum salmon in 1993). The rule of thirds is sometimes applied inconsistently, but this will be corrected in future *ASL Progress Reports*.

Summary Types

This report consists mostly of two types of tabular summaries, one that describes escapement or harvest data by age and sex composition, and another that summarizes the length by age and sex. Each table lists the sample dates, the stratum dates and the number of fish sampled in each stratum.

Age/Sex Tables. The age/sex tables describe the age and sex composition for each stratum as a percentage based on the stratum sample. These percentages are used to estimate the number of fish in each age/sex category for the escapement or catch that occurred during the stratum.

Stratum estimates are weighted by the magnitude of fish passage or harvest in each stratum to estimate. The escapement or harvest listed in the season summaries is derived as the sum of the stratum estimates, by age/sex category. The sums are in turn used to calculate the season percentages. Grand total escapement or catch estimates are the sum of the season estimates. The grand total sums are then used to derive the grand total percentages.

Length Tables. Data in the length tables is listed by age class and sex. Sample dates and stratum dates are identical to the age/sex tables. The length tables include statistics on mean length. standard error and the range of lengths in each age/sex category. The mean length reported for the season is weighted by fish abundance in each stratum. The weighting is derived by multiplying the mean length of each stratum by the estimated catch or escapement for that stratum. These numbers are summed for all strata in the season then divided by the total estimated catch or escapement for the season. The resulting number is the estimated season mean length for each age/sex category. The mean length reported in the grand total is the average of the season mean lengths.

RESULTS AND DISCUSSION

Tables presented in this report are arranged by species and include chinook (Tables 1 - 32), sockeye (Tables 33 - 46), chum (Tables 47 - 66) and coho salmon (Tables 67 - 90). Within each species section the tables are organized by category including escapement, commercial and subsistence. Each of these categories are in turn organized by location. Locations are generally oriented starting with the farthest interior and progressing towards the coast, then south along Kuskokwim Bay. Some escapement and subsistence samples are also arranged by gear type such as 8.0 inch drift gillnets or 6.0 inch set gillnets.

As described in the preface, the tables presented in this report are not exhaustive of all the data collected from the Kuskokwim Area. For example, data sets are not included from the South Fork Salmon River (Pitka Fork drainage) where a weir was operated in 1981 and 1982

(Schneiderhan 1982c and 1982d).[6] Many of the data summaries reported in the *ASL Progress Report* are incomplete. As time and resources allow, it is the intention of the authors to continue adding the missing information to future *ASL Progress Reports*. Sources for some of available information include the *Catch and Escapement Statistics Report Series*, annual management reports and annual project reports. Partial summaries of sport caught fish and carcass samples can be found in Marino (1989), Lisac and MacDonald (1995), Dunaway (1997), and MacDonald (1997). These documents are generally limited to individual years and the methods used to expand the ASL information to escapement and catches generally differ from the methods used in this *ASL Progress Report*.

Users of the historical *Catch and Escapement Report Series* should be cautioned that the season summaries listed in those reports are weighted by the number of fish sampled rather than the escapement or catch in each stratum. The latter method is considered an improvement in that it better accounts for seasonal changes in ASL compositions relative to sampling effort.

Escapement ASL Summaries

Kogrukluk River

This ASL Progress Report includes age/sex and length summaries for Kogrukluk River chinook salmon from 1984 through 1997 (Tables 1 and 2). Summaries for chum salmon extend from 1971 though 1997 (Tables 47 and 48), and for coho salmon from 1989 through 1997 (Tables 67 and 68). No ASL information is included for sockeye salmon, however summaries can be found in the annual project reports until 1995 when ASL sampling of this species was discontinued.

The Kogrukluk River has the most extensive history of escapement monitoring in the Kuskokwim Area (Cappiello and Burkey 1997). The Kogrukluk River is located in the head waters of the Holitna River drainage (Figure 1), a major tributary of the Kuskokwim River at river kilometer (rkm) 540 (river mile, rm, 336). The confluence of the Holitna and the Kogrukluk Rivers is approximately 200 rkm (122 rm) from the main stem Kuskokwim River. Counting tower projects were operated on the lower Kogrukluk River from 1969 through 1978 (Yanagawa 1972a, 1972b; Kuhlmann 1973, 1974, 1975; Baxter 1976 and 1977). Operational plans began to include ASL sampling of chinook salmon in 1972 (Yanagawa 1973). Chum and sockeye salmon were not regularly included in ASL sampling until 1976 when a weir project was initiated (Baxter 1976). Sampling of coho salmon started in 1981 when the operational period of the weir was extended into August and September (Baxter 1982).

[6] In the literature the South Fork Salmon River weir is misleadingly referred to as the "Salmon River weir"; in actuality the weir was located on the south fork of the Salmon River.

George River

The ASL summaries presented for George River are inclusive of all known data sets for the drainage. The George River is located at rkm 497 (rm 309) of the Kuskokwim River (Figure 1). A weir was operated at rkm 6.4 (rm 4) in 1996 and 1997. The weir operation was a cooperative project between Kuskokwim Native Association (KNA), Bering Sea Fishermen's Association (BSFA), and ADF&G (Molyneaux et al. 1997). The operational plan included ASL sampling in both years. Summaries from 1996 and 1997 describe the chinook (Tables 3 and 4) and chum salmon (Tables 49 and 50) ASL compositions. Coho salmon were first sampled in 1997 (Tables 69 and 70) when the weir's operation extended into September. Sockeye salmon were not sampled because of their low abundance.

Aniak River

Information presented about salmon ASL compositions from the Aniak River are not inclusive of all historical data. Coverage is primarily limited to chum salmon and includes age/sex summaries from 1984, 1985, 1989 and 1994 through 1997 (Table 51); and length summaries from 1995 through 1997 (Table 52). All chum salmon samples were collected with beach seines associated with a sonar escapement monitoring project. The Aniak River is located at rkm 362 (rm 225) of the Kuskokwim River (Figure 1). The sonar program has been operated at approximately rkm 19 (rm 11.8) since 1980 and ASL sampling has been included in the operations intermittently (Vania 1998). Chum salmon generally dominate over all other species during the sonar operational period, so the passage estimates are not apportioned to species. The escapement estimates described in Table 51, and the average length weighting in Table 52, are based on the unapportioned fish passage estimates.

Drift gillnets were fished in the Aniak River during the 1995 coho season as part of a feasibility study (Knuepfer 1995). The coho were sampled for ASL information and the results are summarized by mesh size in tables 71 through 76. The gillnet mesh sizes included 5 3/8 inch (13.7 cm), 2 3/4 inch (7.0 cm) and 4 inch (10.2 cm).

Information not reported in this *ASL Progress Report* includes summaries of chum and chinook salmon caught with gillnets deployed in association with the sonar project from 1980 through 1984 (Schneiderhan 1981, 1982a, 1982b, 1984, and 1985). In addition, the ASL composition of sport caught chinook, coho and resident species from the Aniak River in 1996 are described by Dunaway (1997).

Tuluksak River

The ASL summaries presented for Tuluksak River are inclusive of all known substantive data sets for the drainage. The confluence of the Tuluksak and Kuskokwim Rivers is at rkm 218 (rm 136; Figure 1). The U.S. Fish and Wildlife Service (USFWS) operated a weir at rkm 76 (rm 47.2) from

1991 through 1994 (Harper 1995a, 1995b, 1995c). Operations included a rigorous salmon ASL sampling program. Complete ASL summaries are provided for all years and include chinook (Tables 5 and 6), sockeye (Tables 33 and 34), chum (Tables 53 and 54), and coho salmon (Tables 77 and 78). Sockeye salmon are not abundant in the drainage, consequently their sample sizes are small. A few pink salmon were also sampled, but that information is not included in this report. In all cases, ADF&G staff aged the scales and processed the data.

The chum salmon information from Tuluksak River is of particular interest. The large number of strata in each season, which range from six to ten, allow for reliable trend analysis. In addition, the data sets include thorough representation of early and late running fish which tend to illustrate annual extremes in ASL composition.

Kwethluk River

Summaries presented for Kwethluk River are also inclusive of all known substantive data sets for the drainage. The confluence of the Kwethluk and Kuskokwim Rivers is at rkm 159 (rm 99; Figure 1). The USFWS operated a weir at rkm 80 (rm 49.7) in 1992 for one year (Harper 1998). Operations included a rigorous salmon ASL sampling program. Complete ASL summaries are provided for chinook (Tables 7 and 8), sockeye (Tables 35 and 36), chum (Tables 55 and 56), and coho salmon (Tables 79 and 80). The chum salmon data from Kwethluk is of particular interest because it includes nine strata and has a thorough representation of early and late running fish. Again, ADF&G staff aged the scales and processed the ASL data.

A counting tower has been operated on the Kwethluk River from 1996 through 1997 as a cooperative project between the Association of Village Council Presidents (AVCP), ADF&G and USFWS (unpublished), but efforts to collect ASL data have been unproductive.

Kanektok River

The Kanektok River joins the marine waters of Kuskokwim Bay near the community of Quinhagak (Figure 1). The salmon ASL information reported for the Kanektok River is not inclusive of all historical data. Most of the summary tables are based on samples collected as part of the 1997 salmon counting tower project operated in the lower river. The project was conducted jointly by the Native Village of Kwinhagak (NVK), ADF&G, BSFA, the Bureau of Indian Affairs (BIA) and the USFWS (Menard and Caole, *in press*). This was the first full season of the tower project and operations included a rigorous ASL sampling schedule for salmon. Beach seines were employed for collecting fish used for ASL sampling. Summaries for chinook salmon include the 1997 beach seine catches (Tables 9 and 10), and sport and carcass samples from 1991 through 1996 (Tables 11 and 12) as reported by MacDonald (1996). The carcasses were collected opportunistically from sandbars and may not be representative of the escapement population as will be discussed later. Summaries for sockeye (Tables 37 and 38), chum (Tables 57 and 58), and coho salmon (Tables 81 and 82) are all limited to the 1997 beach seine catches.

The 1997 ASL samples from the Kanektok River provide an excellent foundation for exploring inseason ASL dynamics. The sockeye and chum summaries are of particular interest. They include six and ten strata, respectively, and are well distributed throughout the runs. In addition, most stratum include good sample sizes, plus the fish were collected just a few miles from the marine environment so absorption of the scale margins is minimal. One cautionary note, however, the summaries are weighted by the tower counts and the species apportionment of those counts was sometimes in question (Menard and Caole, *in press*)

Historical information not accounted for in this report includes ASL samples collected during operation of the Kanektok River sonar project which was conducted by ADF&G from 1981 through 1987 (Schultz and Carey 1982, Schultz and Williams 1984). Salmon ASL data were collected from 1984 through 1987 (Huttunun 1984, 1985, 1986 and 1988). Most of the samples were taken with beach seines, but carcasses were used as well. Additional carcass sampling was done in 1984 as part of a survey trip (Snellgrove and Bue 1984). The ADF&G also operated counting towers on the Kanektok River in 1960 through 1962, but no ASL sampling was reported (ADF&G 1960, 1961 and 1962).

Middle Fork Goodnews River

The confluence of the Goodnews River and Middle Fork Goodnews River is at rkm 10 (rm 6.2; Figure 1). The Goodnews River joins the marine waters of Goodnews Bay near the community of Goodnews. The information presented about the salmon ASL compositions from the Middle Fork Goodnews River is not inclusive of all historical data. This report is limited to recent year collections from ADF&G escapement monitoring projects operated in the lower river. Chinook summaries include age/sex composition from 1990 through 1997 (Table 13), but length summaries are limited to 1995 through 1997 (Table 14). The information for sockeye (Tables 40 and 41) and chum salmon (Tables 59 and 60) span the same years. Coho age/sex summaries are limited to 1991 and 1995 through 1996 (Table 83), and a length summary from 1996 (Table 84). Also included are summaries of ASL information from chinook carcasses collected at a weir in 1996 (Tables 15 and 16). As will be discussed later, the carcass data are not representative of the escapement population. Overall, the Middle Fork Goodnews River ASL collections tend to have small sample sizes with limited temporal distributions. Data sets from 1997 are an exception and among the best summaries for the drainage.

The ADF&G has annually operated an escapement monitoring project on the Middle Fork Goodnews River since 1981 and procedures generally included some form of ASL sampling since 1985 (Burkey 1990).[7] Salmon passage was monitored using a counting tower from 1981 through 1990. Results of ASL sampling that began in 1985 are reported in the annual project reports (Schultz 1985 and 1987; Schultz and Burkey 1989; and Burkey 1989 and 1990). Sampling methods employed through 1990 included both carcass sampling and beach seining. The tower project was replaced with a weir in 1991 and operated through 1997. The weir includes a fish trap for collecting fish for ASL sampling. The operational period of these projects generally did not include the coho

[7] In the literature the Middle Fork Goodnews River weir /tower are often misleadingly referred to as the "Goodnews River weir/tower"; in actuality the project has always been located on the middle fork of the Goodnews River.

season until 1997. Substantial numbers of pink salmon spawn in the Goodnews River, especially during even years, but they are not included in any ASL sampling.

Commercial Catch ASL Summaries

The salmon ASL information reported for the Kuskokwim Area commercial harvests is not inclusive of all historical data.

District 1

Chinook summaries include age/sex composition from 1974 through 1997 (Table 17), but length summaries are limited to 1995-1997 (Table 18). The age/sex summaries for sockeye, chum and coho salmon include 1984-1997 (Tables 41, 61 and 85), while the length summaries are limited to 1995-97 for sockeye and coho salmon (Table 42 and 86), and 1989-97 (Table 62) for chum salmon.

The chinook summaries for 1974-1984 include a notation about "unrestricted" and "restricted" mesh sizes. Unrestricted mesh size refers to a commercial fishing period in which fishers were permitted to use gillnets with any mesh size. Most fishers used larger mesh sizes, such as 8.0 inch (20.3 cm), in order to target large chinook salmon, but no information was recorded describing the actual mesh size used to catch the fish that were sampled. Still, the samples are assumed to be representative of the overall commercial harvest. Restricted mesh size refers to a commercial fishing period in which regulations specified that fishers use mesh sizes of 6.0 inches (15.2 cm) or smaller. The most commonly used mesh sizes are between 5.5 and 6.0 inches (14.0 and 15.2 cm).

Sex was confirmed in all salmon sampled from the District 1 commercial fishery in 1997. The sex identifications were done by making small incisions into the abdominal cavity of each fish and visually inspecting the gonads to determine the presence of egg skeins or milt sacs. This was an unusual opportunity and provided unbiased validation of sex composition which was sometimes inconsistent in the historical data base. For example, all 85 age 1.2 chinook salmon were males (Table 17), and the coho data exhibited an increasing proportion of females in the catch as the season progressed (Table 85). Sometimes these patterns are not apparent in the historical database, likely because of errors in sexing male chinook salmon which lack a prominent kype, or female coho salmon which do have kype development. Both cases are contrary to the common perception that kyped fish are male while unkyped fish are female. The presence or absence of a kype is not a fail-safe method for identifying the sex of a salmon, especially those without advanced development of spawning morphology.

District 2

Catches from the District 2 commercial fishery are not generally sampled for ASL information. Summaries in the historical *Catch and Escapement Report Series* do list ASL statistics for the district, but the statistics are based on samples collected in District 1 (e.g., Huttunen 1989,

Anderson 1995, and Molyneaux and Samuelson 1992). The degree to which the District 1 statistics accurately reflect the District 2 harvest in not known, but the likelihood is deminished in years when the fishing schedule in District 2 is not evenly matched with District 1. The travel time required for fish to move between districts is another confounding influence.

District 4

Summaries of the age/sex composition of the District 4 commercial harvest of chinook, sockeye and coho salmon are reported for 1990 through 1997 (Tables 19, 43 and 87). Chum salmon age/sex summaries include 1988-1997 (Table 63). Length summaries are limited to 1995-1997 for chinook, sockeye and chum salmon (Tables 20, 44 and 64). Coho salmon length summaries only include 1996 and 1997 (Table 88). As with District 1, the sex was confirmed in all salmon sampled from the 1997 District 4 commercial fishery. Again, this was an unusual opportunity. Of 201 age 1.2 chinook salmon sampled, 99 percent were males (Table 19), and the coho data again exhibited an increasing proportion of females in the catch as the season progressed (Table 87).

District 5

Age/sex summaries describing the District 5 commercial harvest of chinook, sockeye and coho are reported for 1990 through 1997 (Tables 21, 45 and 89). The age/sex summaries for chum salmon include 1988-1997 (Table 65). Length summaries are limited to 1995-1997 for chinook, sockeye and chum salmon (Tables 22, 46 and 66); only 1996 and 1997 are reported for coho salmon (Table 90). Most of the fish sampled from District 5 in 1997 were also internally inspected to confirm their sex. Of 219 age 1.2 chinook salmon sampled, about 95 percent were reported as males and the 5 percent identified as females came from samples in which sex of most fish was not confirmed (Table 21). The coho catch samples, all of which were sex confirmed, again illustrated an increasing proportion of females with time (Table 89).

Subsistence ASL Summaries

Chinook salmon are the only species sampled from the subsistence harvest. Collection points are limited to the Bethel area and Aniak (Figure 1). Results are described by gear type and limited to samples collected between 1993 and 1995 (Tables 23-32), which are the only years when information was reported about gear type. Samples also include the date caught and sex of each fish, as determined by internal inspection of the gonads.

Unlike commercial summaries, the results of the subsistence samples are not expanded to characterize the entire subsistence harvest. The harvest techniques employed by subsistence fishers are diverse and sometimes geographically distinct (Coffing 1997). Included in the list are fish wheel, rod and reel, spears, and set and drift gillnets. Gillnets are the most commonly used gear type, but mesh sizes employed vary widely (ADF&G 1968, Francisco et al. 1995). The

limited ASL sampling effort precludes any reasonable approximation as to the actual ASL composition of the subsistence harvest.

Subsistence ASL summaries are described in the historical *Catch and Escapement Report Series* (e.g., Huttunen 1989, Anderson 1995, Molyneaux and Samuelson 1992), but some of the information may be misleading. A method commonly employed in the *Catch and Escapement Report Series* is to estimate the ASL composition of the subsistence harvest by applying statistics from the commercial catch. The assumption that the selectivity of gear used in the commercial fishery can approximate that of the subsistence fishery is generally incorrect for the reasons described earlier. Most askew are estimates for Kuskokwim River subsistence harvest. Subsistence fishers in the Kuskokwim River employ the widest variety of gear types and there is distinct geographical differences in the preferred gear type (ADF&G 1968, Francisco et al 1995, Coffing 1997). In Kuskokwim Bay, the application of commercial catch sample data to estimate the ASL composition of the subsistence harvest may have some merit because the gear types are reportedly more alike, but the assumption has not been confirmed.

Trends In ASL Composition

Information provided in this section is intended to provide a few examples of data concerns and common trends found in salmon ASL information in the Kuskokwim Area. The analysis in this *ASL Progress Report* focuses on chum salmon and it is not intended to be exhaustive. Project leaders are encouraged to use the examples described herein as the basis for expanding ASL discussions in their annual project reports.

Sources of Bias

Sampling Design. Salmon populations often demonstrate distinctive and dynamic trends in their ASL composition over the course of a single season and it is vital that sampling designs recognize and account for both the temporal and spatial variability (Clutter and Whitesel 1956). Sampling effort should be distributed throughout the run and results weighted in a manner that accounts for fish abundance. Resources or sampling conditions sometimes preclude adequate sampling effort (e.g., 1994 Middle Fork Goodnews River chum salmon, Table 59), in which case the available data should not be used to characterize the entire population unless there is clear and justifiable reason to do so. Such incomplete data sets are presented in the *ASL Progress Report* only for the purpose of providing whatever insights may be gleaned for truncated segments of the populations.

Pulse sampling began to be implemented in the Kuskokwim Area in the early 1990's as a means of accounting for temporal variability in populations. Much of the ASL data reported in the summary tables from years prior to the 1990's has been restratified into pulse samples, so results presented here may differ from those reported elsewhere.

Carcass Sampling. The use of carcasses for estimating the ASL composition of spawning escapements can be misleading. Male chinook salmon, for example, tend to drift downstream in a moribund state after spawning while females tend to remain near their redds (Kissner and Hubartt 1986). As a result, estimates of ASL composition based on chinook carcasses collected at weirs tend to be biased towards males (McPherson et al. 1997). One might assume that estimates based on carcass surveys would then be biased towards females, however Evenson (1991) and Skaugstad (1990) found that not to be the case in their surveys of the Chena and Salcha Rivers (Yukon River drainage). Not withstanding these findings, collecting and interpreting chinook carcass survey data should be done with caution. In the Chena and Salcha River studies field crews were focused on carcass recoveries. A more casual or opportunistic sampling design, as is sometimes employed, would probably be more prone to introducing bias.

The differential arrival time to the spawning grounds that occur between sex or age groups is another potential source of bias in carcass sampling. Such temporal dynamics are pronounced in sockeye (Figure 2) and chum salmon (Figure 3, 4, 6 and 7) and may exist in other species as well. In general, carcass sampling is not recommended as a means of estimating the ASL composition of escapement populations unless sampling designs can account for the inherent dynamics of populations.

Scale Absorption. The phenomenon of scale absorption can make aging of escapement samples unreliable. The margin of a salmon scale is absorbed by the fish as an energy reserve during the last few weeks of life (Clutter and Whitesel 1956). Absorption is most prominent along the lateral edges of a scale. When viewed for aging there may only be a small remnant of the outer annulus along the anterior edge of the scale. The general convention when estimating the age of a salmon from scales is to only use observable annuli, but on rare occasions, when there is reason to believe a full annulus has been absorbed, the technician or biologist may add an additional year for the missing annulus. Length information is used to help decide the correct age. The degree of scale absorption observed in the Kuskokwim Area appeared exacerbated in 1997. One hypothesis is that the exceptionally warm water temperatures reported throughout the area caused the rate of absorption to increase.

Scale absorption in Kuskokwim Area salmon is most problematic in fish sampled from the Kogrukluk River, particularly sockeye salmon. The Kogrukluk River is located approximately 740 rkm (458 rm) from the mouth of the Kuskokwim River (Figure 1). It is farther interior than any other project where ASL data is collected, and scale absorption generally appears more advanced than elsewhere in the area. Consequently the uncertainty of age estimates is heightened.

In their study of British Columbia sockeye salmon, Clutter and Whitesel (1956) reported that the degree of scale absorption varied between individuals and was most pronounced in males. This appears to be true of Kogrukluk River sockeye as well. The degree of scale absorption observed in Kogrukluk River sockeye contributed to the discontinuation of sockeye sampling at that project in 1995. Scale absorption is more moderate elsewhere in the Kuskokwim Area and the confidence of age determination is correspondingly greater.

Sex Determination. Secondary sexual characteristics become more well developed and obvious in salmon as they near their spawning grounds, consequently an experienced technician can generally identify the sex of fish observed at an escapement project. However, determining the sex of fish in the commercial harvest is not as reliable. Sexual dimorphism is not always obvious in commercially caught fish and concerns about marketing quality limit efforts to verify sex through intrusive examination of gonads. An exception occurred in 1997 when most of the commercial catch samples were examined internally to verify the sex. Samples so examined are noted in the appropriate tables.

Chum Salmon

Age Composition. Age 0.3 and 0.4 are the predominant age classes of chum salmon in the Kuskokwim Area, and age 0.3 tends to be in greater abundance. Most of the older fish arrive at area streams early in the season and their daily proportion at any given location decreases as the season progresses. Their contribution may range from 90% early in the season to less than 10% near the end of the season. This pattern is apparent in all 1997 ASL summaries for Kuskokwim Area escapements and commercial catches (Figure 3). The consistency of the pattern among seasons is illustrated in data from Tuluksak River (Figure 4). Chum salmon demonstrate similar patterns in streams of the Yukon drainage (Tobin and Harper 1995, Melegari 1996), south-central Alaska (Helle 1979), southeast Alaska (Clark and Weller 1986), British Columbia (Beacham and Starr 1982; and Beacham 1984), and Washington (Salo and Noble 1953). Indeed, this pattern appears to be the norm for chum salmon. Occasional inconsistencies seen in the historical age summaries of the Kuskokwim Area should be reviewed to confirm the reliability of the aging.

Sex Composition. The annual ratio of males to females approximates 1:1 in most Kuskokwim Area chum salmon populations (Figure 5), but males tend to predominate early and females later in the run (Figures 6 and 7). These patterns are common, if not the standard, in chum salmon populations (Bakkala 1970).

Kogrukluk River is an exception to that norm. The annual percentage of females reported at the weir has always been less than 50 percent. Furthermore the percentage has generally been on the decline since 1981 (Figure 5). Also, within season the proportion of females rarely increases (Figure 8) as is typical of other runs (Figures 6 and 7).

The cause of the sex ratio anomalies at Kogrukluk River are unknown. Disproportionate commercial harvest is a potential factor, however the sex ratio in the commercial fishery favors females only slightly (Figure 6). The lowest proportion of females yet reported for Kogrukluk River, 4%, occurred in 1997, when only one limited commercial fishing period was allowed for chum salmon (Burkey et al. 1997). For these reasons, it seems unlikely that commercial fishing is the only causative agent in the disproportionately low occurrence of females at Kogrukluk River.

Another possible explanation is that chum salmon may exhibit a behavioral phenomenon whereby males tend to continue moving upstream during the spawning period while females are more stationary. This would result in a high occurrence of males at Kogrukluk River weir because, unlike other escapement projects, the weir is located near the headwaters of a large tributary stream with an abundance of spawning habitat downstream of the weir site (Figure 1). The hypothesis is plausible given that male chum salmon remain sexually active for 10 to 14 days while most females complete their spawning in only 1 or 2 days (Schroder 1982). The fact that the proportion of females rarely increases with the progression of the run supports this explanation, still it does not explain the trend of declining percentages observed over the past sixteen years (Figure 5).

Length Composition. The length frequency of chum salmon overlap broadly by age and sex groupings, however the average length of females is generally less than males of the same age class. In addition, as runs progress the average length of chum salmon entering the spawning streams decreases by sex and age grouping as is illustrated in Figure 10 for Tuluksak River. The size at age for male chum salmon also appears to have remained relatively stable at least since 1980 (Figure 11).

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TABLES

Chinook Salmon

Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1984	6/19, 23-30	146	M	0	0.0	0	0.0	23	11.6	0	0.0	97	48.6	0	0.0	34	17.1	0	0.0	4	2.1	0	0.0	0	0.0	0	0.0	159	79.5
	(6/19 - 30)		F	0	0.0	0	0.0	0	0.0	0	0.0	5	2.7	0	0.0	29	14.4	0	0.0	7	3.4	0	0.0	0	0.0	0	0.0	41	20.5
			Subtotal	0	0.0	0	0.0	23	11.6	0	0.0	103	51.3	0	0.0	63	31.5	0	0.0	11	5.5	0	0.0	0	0.0	0	0.0	200	100.0
	7/1 - 4	200	M	0	0.0	0	0.0	202	20.0	0	0.0	546	54.0	0	0.0	76	7.5	0	0.0	25	2.5	0	0.0	0	0.0	0	0.0	850	84.0
	(7/1 - 4)		F	0	0.0	0	0.0	5	0.5	0	0.0	20	2.0	0	0.0	101	10.0	0	0.0	35	3.5	0	0.0	0	0.0	0	0.0	162	16.0
			Subtotal	0	0.0	0	0.0	207	20.5	0	0.0	567	56.0	0	0.0	177	17.5	0	0.0	61	6.0	0	0.0	0	0.0	0	0.0	1,012	100.0
	7/5 - 7	153	M	0	0.0	0	0.0	76	15.0	0	0.0	286	56.2	0	0.0	53	10.5	0	0.0	7	1.3	0	0.0	0	0.0	0	0.0	422	83.0
	(7/5 - 7)		F	0	0.0	0	0.0	0	0.0	0	0.0	7	1.3	0	0.0	60	11.8	0	0.0	20	3.9	0	0.0	0	0.0	0	0.0	87	17.0
			Subtotal	0	0.0	0	0.0	76	15.0	0	0.0	293	57.5	0	0.0	114	22.3	0	0.0	26	5.2	0	0.0	0	0.0	0	0.0	509	100.0
	7/8 - 11	135	M	0	0.0	0	0.0	87	20.0	0	0.0	226	51.9	0	0.0	39	8.9	0	0.0	3	0.7	0	0.0	0	0.0	0	0.0	355	81.5
	(7/8 - 11)		F	0	0.0	0	0.0	0	0.0	0	0.0	16	3.7	0	0.0	55	12.6	0	0.0	10	2.2	0	0.0	0	0.0	0	0.0	81	18.5
			Subtotal	0	0.0	0	0.0	87	20.0	0	0.0	242	55.6	0	0.0	94	21.5	0	0.0	13	2.9	0	0.0	0	0.0	0	0.0	436	100.0
	7/12 - 14	155	M	0	0.0	0	0.0	259	29.7	0	0.0	360	41.3	0	0.0	73	8.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	692	79.4
	(7/12 - 14)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	163	18.7	0	0.0	17	1.9	0	0.0	0	0.0	0	0.0	179	20.6
			Subtotal	0	0.0	0	0.0	259	29.7	0	0.0	360	41.3	0	0.0	236	27.1	0	0.0	17	1.9	0	0.0	0	0.0	0	0.0	871	100.0
	7/15 - 17	152	M	0	0.0	0	0.0	214	25.7	0	0.0	344	41.4	0	0.0	98	11.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	656	78.9
	(7/15 - 17)		F	0	0.0	0	0.0	0	0.0	0	0.0	11	1.3	0	0.0	153	18.4	0	0.0	11	1.3	0	0.0	0	0.0	0	0.0	176	21.1
			Subtotal	0	0.0	0	0.0	214	25.7	0	0.0	355	42.7	0	0.0	251	30.2	0	0.0	11	1.3	0	0.0	0	0.0	0	0.0	832	100.0
	7/18 - 21	122	M	0	0.0	4	0.8	103	22.1	0	0.0	198	42.6	0	0.0	61	13.1	0	0.0	4	0.8	0	0.0	0	0.0	0	0.0	370	79.5
	7/18 - 21		F	0	0.0	0	0.0	0	0.0	0	0.0	4	0.8	0	0.0	88	18.9	0	0.0	0	0.0	0	0.0	4	0.8	0	0.0	95	20.5
			Subtotal	0	0.0	4	0.8	103	22.1	0	0.0	202	43.4	0	0.0	149	32.0	0	0.0	4	0.8	0	0.0	4	0.8	0	0.0	465	100.0
	7/22 - 28	185	M	0	0.0	0	0.0	94	22.7	0	0.0	128	30.8	0	0.0	32	7.6	0	0.0	5	1.1	0	0.0	0	0.0	0	0.0	259	62.2
	(7/22 - 28)		F	0	0.0	0	0.0	0	0.0	0	0.0	20	4.9	0	0.0	121	29.2	0	0.0	16	3.8	0	0.0	0	0.0	0	0.0	157	37.8
			Subtotal	0	0.0	0	0.0	94	22.7	0	0.0	149	35.7	0	0.0	153	36.8	0	0.0	20	4.9	0	0.0	0	0.0	0	0.0	416	100.0
	7/29 - 8/9,	128	M	0	0.0	0	0.0	42	22.7	0	0.0	69	36.7	0	0.0	15	7.8	0	0.0	3	1.6	0	0.0	0	0.0	0	0.0	128	68.7
	8/12 - 14		F	0	0.0	0	0.0	0	0.0	0	0.0	3	1.6	0	0.0	50	26.6	0	0.0	6	3.1	0	0.0	0	0.0	0	0.0	59	31.3
	(7/29 - 8/21)		Subtotal	0	0.0	0	0.0	42	22.7	0	0.0	72	38.3	0	0.0	64	34.4	0	0.0	9	4.7	0	0.0	0	0.0	0	0.0	187	100.0
	Season	1,376	M	0	0.0	4	0.1	1,101	22.3	0	0.0	2,255	45.8	0	0.0	481	9.8	0	0.0	50	1.0	0	0.0	0	0.0	0	0.0	3,892	79.0
			F	0	0.0	0	0.0	5	0.1	0	0.0	86	1.8	0	0.0	820	16.6	0	0.0	121	2.4	0	0.0	4	0.1	0	0.0	1,036	21.0
			Total	0	0.0	4	0.1	1,106	22.5	0	0.0	2,341	47.5	0	0.0	1,301	26.4	0	0.0	171	3.5	0	0.0	4	0.1	0	0.0	4,928	100.0
1985	7/7 - 10	170	M	0	0.0	0	0.0	79	7.6	0	0.0	377	36.5	0	0.0	213	20.6	0	0.0	36	3.5	0	0.0	0	0.0	0	0.0	705	68.2
	(6/25 - 7/10)		F	0	0.0	0	0.0	0	0.0	0	0.0	25	2.4	0	0.0	285	27.6	0	0.0	19	1.8	0	0.0	0	0.0	0	0.0	329	31.8
			Subtotal	0	0.0	0	0.0	79	7.6	0	0.0	402	38.9	0	0.0	498	48.2	0	0.0	55	5.3	0	0.0	0	0.0	0	0.0	1,034	100.0
	7/11 - 14	200	M	0	0.0	0	0.0	143	14.5	0	0.0	379	38.5	0	0.0	202	20.5	0	0.0	5	0.5	0	0.0	0	0.0	0	0.0	729	74.0
	(7/11 - 14)		F	0	0.0	0	0.0	0	0.0	0	0.0	20	2.0	0	0.0	217	22.0	0	0.0	20	2.0	0	0.0	0	0.0	0	0.0	256	26.0
			Subtotal	0	0.0	0	0.0	143	14.5	0	0.0	399	40.5	0	0.0	419	42.5	0	0.0	25	2.5	0	0.0	0	0.0	0	0.0	985	100.0
	7/15 - 18	209	M	0	0.0	0	0.0	186	19.6	0	0.0	349	36.8	0	0.0	150	15.8	0	0.0	9	1.0	0	0.0	0	0.0	0	0.0	694	73.2
	(7/15 - 18)		F	0	0.0	0	0.0	0	0.0	0	0.0	18	1.9	0	0.0	209	22.0	0	0.0	23	2.4	0	0.0	5	0.5	0	0.0	254	26.8
			Subtotal	0	0.0	0	0.0	186	19.6	0	0.0	367	38.7	0	0.0	358	37.8	0	0.0	32	3.4	0	0.0	5	0.5	0	0.0	948	100.0
	7/19 - 22	180	M	0	0.0	0	0.0	179	27.2	0	0.0	198	30.0	0	0.0	103	15.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	480	72.8
	(7/19 - 22)		F	0	0.0	0	0.0	0	0.0	0	0.0	11	1.7	0	0.0	154	23.3	0	0.0	14	2.2	0	0.0	0	0.0	0	0.0	179	27.2
			Subtotal	0	0.0	0	0.0	179	27.2	0	0.0	209	31.7	0	0.0	256	38.9	0	0.0	14	2.2	0	0.0	0	0.0	0	0.0	659	100.0

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Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1985 (cont.)	7/23, 25-27, 29 (7/23 - 29)	165	M	0	0.0	0	0.0	118	16.4	0	0.0	178	24.8	0	0.0	104	14.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	401	55.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	17	2.4	0	0.0	283	39.4	0	0.0	17	2.4	0	0.0	0	0.0	0	0.0	318	44.2
			Subtotal	0	0.0	0	0.0	118	16.4	0	0.0	196	27.2	0	0.0	388	53.9	0	0.0	17	2.4	0	0.0	0	0.0	0	0.0	719	100.0
	7/30-8/3, 8/5-6, 8/8 - 10, 12 (7/30 - 8/15)	118	M	0	0.0	0	0.0	42	15.3	0	0.0	65	23.7	0	0.0	46	16.9	0	0.0	2	0.8	0	0.0	0	0	0	0.0	156	56.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	9	3.4	0	0.0	107	39.0	0	0.0	2	0.8	0	0.0	0	0	0	0.0	118	43.2
			Subtotal	0	0.0	0	0.0	42	15.3	0	0.0	74	27.1	0	0.0	153	55.9	0	0.0	4	1.6	0	0.0	0	0	0	0.0	274	100.0
	Season	1,042	M	0	0.0	0	0.0	746	16.2	0	0.0	1,546	33.5	0	0.0	818	17.7	0	0.0	53	1.1	0	0.0	0	0.0	0	0.0	3,165	68.5
			F	0	0.0	0	0.0	0	0.0	0	0.0	100	2.2	0	0.0	1,254	27.2	0	0.0	95	2.1	0	0.0	5	0.1	0	0.0	1,454	31.5
			Total	0	0.0	0	0.0	746	16.2	0	0.0	1,647	35.7	0	0.0	2,072	44.9	0	0.0	148	3.2	0	0.0	5	0.1	0	0.0	4,619	100.0
1986	6/30 - 7/6 (6/30 - 7/6)	176	M	0	0.0	0	0.0	27	6.8	0	0.0	245	61.9	0	0.0	40	10.2	0	0.0	9	2.3	0	0.0	0	0.0	0	0.0	321	81.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	2	0.6	0	0.0	60	15.3	0	0.0	11	2.8	0	0.0	0	0.0	0	0.0	74	18.8
			Subtotal	0	0.0	0	0.0	27	6.8	0	0.0	247	62.5	0	0.0	101	25.5	0	0.0	20	5.1	0	0.0	0	0.0	0	0.0	395	100.1
	7/7 - 10 (7/7 - 10)	187	M	0	0.0	0	0.0	64	8.6	0	0.0	509	67.9	0	0.0	72	9.6	0	0.0	8	1.1	0	0.0	0	0.0	0	0.0	653	87.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	8	1.1	0	0.0	80	10.7	0	0.0	8	1.1	0	0.0	0	0.0	0	0.0	96	12.8
			Subtotal	0	0.0	0	0.0	64	8.6	0	0.0	517	69.0	0	0.0	152	20.3	0	0.0	16	2.2	0	0.0	0	0.0	0	0.0	749	100.0
	7/11 - 14 (7/11 - 14)	188	M	0	0.0	0	0.0	126	11.2	0	0.0	595	52.7	0	0.0	84	7.4	0	0.0	24	2.1	0	0.0	0	0.0	0	0.0	829	73.4
			F	0	0.0	0	0.0	0	0.0	0	0.0	18	1.6	0	0.0	216	19.1	0	0.0	67	5.9	0	0.0	0	0.0	0	0.0	300	26.6
			Subtotal	0	0.0	0	0.0	126	11.2	0	0.0	613	54.3	0	0.0	299	26.5	0	0.0	90	8.0	0	0.0	0	0.0	0	0.0	1,129	100.0
	7/15 - 19 (7/15 - 8/28)	128	M	0	0.0	22	0.8	216	7.8	0	0.0	1,123	40.6	0	0.0	301	10.9	0	0.0	44	1.6	0	0.0	0	0.0	0	0.0	1,706	61.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	64	2.3	0	0.0	799	28.9	0	0.0	194	7.0	0	0.0	0	0.0	0	0.0	1,059	38.3
			Subtotal	0	0.0	22	0.8	216	7.8	0	0.0	1,186	42.9	0	0.0	1,100	39.8	0	0.0	238	8.6	0	0.0	0	0.0	0	0.0	2,765	100.0
	Season	679	M	0	0.0	22	0.4	433	8.6	0	0.0	2,471	49.0	0	0.0	497	9.9	0	0.0	85	1.7	0	0.0	0	0.0	0	0.0	3,509	69.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	92	1.8	0	0.0	1,155	22.9	0	0.0	279	5.5	0	0.0	0	0.0	0	0.0	1,529	30.4
			Total	0	0.0	22	0.4	433	8.6	0	0.0	2,563	50.9	0	0.0	1,652	32.8	0	0.0	365	7.2	0	0.0	0	0.0	0	0.0	5,038	100.0
1987[c]	7/15 - 16	117	M		0.0		0.0		25.6		0.0		23.9		0.0		21.4		0.0		0.9		0.0		0.0		0.0		71.8
			F		0.0		0.0		0.0		0.0		0.9		0.0		27.3		0.0		0.0		0.0		0.0		0.0		28.2
			Subtotal		0.0		0.0		25.6		0.0		24.8		0.0		48.7		0.0		0.9		0.0		0.0		0.0		100.0
	8/10 - 14	24	M		0.0		4.2		37.4		0.0		25.0		0.0		29.2		0.0		0.0		0.0		0.0		0.0		95.8
			F		0.0		0.0		0.0		0.0		0.0		0.0		4.2		0.0		0.0		0.0		0.0		0.0		4.2
			Subtotal		0.0		4.2		37.4		0.0		25.0		0.0		33.4		0.0		0.0		0.0		0.0		0.0		100.0
1988	7/6 - 9 (6/24 - 7/9)	204	M	0	0.0	0	0.0	241	6.9	0	0.0	1,694	48.5	0	0.0	412	11.8	0	0.0	35	1.0	0	0.0	0	0.0	0	0.0	2,378	68.1
			F	0	0.0	0	0.0	0	0.0	0	0.0	258	7.4	0	0.0	650	18.6	0	0.0	206	5.9	0	0.0	0	0.0	0	0.0	1,114	31.9
			Subtotal	0	0.0	0	0.0	241	6.9	0	0.0	1,952	55.9	0	0.0	1,062	30.4	0	0.0	241	6.9	0	0.0	0	0.0	0	0.0	3,492	100.0
	7/10 - 13 (7/10 - 13)	208	M	0	0.0	0	0.0	170	6.7	0	0.0	1,147	45.2	0	0.0	317	12.5	0	0.0	25	1.0	0	0.0	0	0.0	0	0.0	1,660	65.4
			F	0	0.0	0	0.0	0	0.0	0	0.0	170	6.7	0	0.0	538	21.2	0	0.0	170	6.7	0	0.0	0	0.0	0	0.0	878	34.6
			Subtotal	0	0.0	0	0.0	170	6.7	0	0.0	1,317	51.9	0	0.0	855	33.7	0	0.0	195	7.7	0	0.0	0	0.0	0	0.0	2,538	100.0
	7/14 - 17 (7/14 - 17)	209	M	0	0.0	0	0.0	166	11.0	0	0.0	598	39.7	0	0.0	137	9.1	0	0.0	8	0.5	0	0.0	0	0.0	0	0.0	908	60.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	158	10.5	0	0.0	324	21.5	0	0.0	116	7.7	0	0.0	0	0.0	0	0.0	598	39.7
			Subtotal	0	0.0	0	0.0	166	11.0	0	0.0	756	50.2	0	0.0	461	30.6	0	0.0	123	8.2	0	0.0	0	0.0	0	0.0	1,506	100.0

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Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1988 (cont.)	7/18 - 21 (7/18 - 21)	140	M	0	0.0	0	0.0	46	12.1	0	0.0	158	41.4	0	0.0	22	5.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	226	59.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	30	7.9	0	0.0	90	23.6	0	0.0	35	9.3	0	0.0	0	0.0	0	0.0	155	40.7
			Subtotal	0	0.0	0	0.0	46	12.1	0	0.0	188	49.3	0	0.0	112	29.3	0	0.0	35	9.3	0	0.0	0	0.0	0	0.0	381	100.0
	7/22 - 27 (7/22 - 8/29)	106	M	0	0.0	0	0.0	55	9.4	0	0.0	189	32.1	0	0.0	66	11.3	0	0.0	16	2.8	0	0.0	0	0.0	0	0.0	328	56.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	78	13.2	0	0.0	116	19.8	0	0.0	66	11.3	0	0.0	0	0.0	0	0.0	260	44.3
			Subtotal	0	0.0	0	0.0	55	9.4	0	0.0	266	45.3	0	0.0	183	31.1	0	0.0	83	14.1	0	0.0	0	0.0	0	0.0	588	100.0
	Season	867	M	0	0.0	0	0.0	678	8.0	0	0.0	3,785	44.5	0	0.0	955	11.2	0	0.0	84	1.0	0	0.0	0	0.0	0	0.0	5,499	64.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	694	8.2	0	0.0	1,718	20.2	0	0.0	594	7.0	0	0.0	0	0.0	0	0.0	3,006	35.3
			Total	0	0.0	0	0.0	678	8.0	0	0.0	4,479	52.7	0	0.0	2,672	31.4	0	0.0	678	8.0	0	0.0	0	0.0	0	0.0	8,505	100.0
1989[c]	7/7 - 10	110	M		0.0		0.0		10.0		0.0		19.1		0.0		32.8		0.0		0.9		0.0		0.0		0.0		62.8
			F		0.0		0.0		0.0		0.0		3.6		0.0		31.8		0.0		1.8		0.0		0.0		0.0		37.2
			Subtotal		0.0		0.0		10.0		0.0		22.7		0.0		64.6		0.0		2.7		0.0		0.0		0.0		100.0
	7/11 - 14	107	M		0.0		0.0		19.6		0.0		28.0		0.0		19.6		0.0		0.9		0.0		0.0		0.0		68.1
			F		0.0		0.0		0.0		0.0		0.0		0.0		31.9		0.0		0.0		0.0		0.0		0.0		31.9
			Subtotal		0.0		0.0		19.6		0.0		28.0		0.0		51.5		0.0		0.9		0.0		0.0		0.0		100.0
1990[d]	6/30; 7/1 - 7 (6/19 - 7/7)	152	M	0	0.0	32	1.3	808	32.9	0	0.0	1,228	50.0	0	0.0	113	4.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,181	88.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	145	5.9	0	0.0	130	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	275	11.2
			Subtotal	0	0.0	32	1.3	808	32.9	0	0.0	1,373	55.9	0	0.0	243	9.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,456	100.0
	7/8 - 14 (7/8 - 14)	135	M	0	0.0	127	3.0	1,257	29.6	0	0.0	1,950	45.9	0	0.0	64	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,398	80.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	506	11.9	0	0.0	314	7.4	0	0.0	30	0.7	0	0.0	0	0.0	0	0.0	850	20.0
			Subtotal	0	0.0	127	3.0	1,257	29.6	0	0.0	2,455	57.8	0	0.0	378	8.9	0	0.0	30	0.7	0	0.0	0	0.0	0	0.0	4,248	100.0
	7/15 - 20, 22 (7/15 - 8/23)	80	M	0	0.0	134	3.8	397	11.3	0	0.0	1,757	50.0	0	0.0	88	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,372	67.5
			F	0	0.0	0	0.0	0	0.0	0	0.0	703	20.0	0	0.0	439	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,142	32.5
			Subtotal	0	0.0	134	3.8	397	11.3	0	0.0	2,460	70.0	0	0.0	527	15.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,514	100.0
	Season	367	M	0	0.0	293	2.9	2,463	24.1	0	0.0	4,935	48.3	0	0.0	265	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,951	77.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	1,353	13.2	0	0.0	884	8.6	0	0.0	30	0.3	0	0.0	0	0.0	0	0.0	2,267	22.2
			Total	0	0.0	293	2.9	2,463	24.1	0	0.0	6,288	61.5	0	0.0	1,148	11.2	0	0.0	30	0.3	0	0.0	0	0.0	0	0.0	10,218	100.0
1991	7/6 - 10 (7/4 - 10)	80	M	0	0.0	0	0.0	112	3.8	0	0.0	702	23.8	0	0.0	923	31.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,734	58.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	112	3.8	0	0.0	1,106	37.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,218	41.3
			Subtotal	0	0.0	0	0.0	112	3.8	0	0.0	814	27.6	0	0.0	2,029	68.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,949	100.1
	7/11 - 14 (7/11 - 14)	75	M	0	0.0	0	0.0	154	8.0	0	0.0	488	25.3	25	1.3	333	17.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,002	52.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	102	5.3	0	0.0	796	41.3	0	0.0	25	1.3	0	0.0	0	0.0	0	0.0	925	48.0
			Subtotal	0	0.0	0	0.0	154	8.0	0	0.0	590	30.6	25	1.3	1,129	58.6	0	0.0	25	1.3	0	0.0	0	0.0	0	0.0	1,927	100.0
	7/15 - 18 (7/15 - 18)	74	M	0	0.0	0	0.0	155	9.5	0	0.0	440	27.0	0	0.0	199	12.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	792	48.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	176	10.8	0	0.0	639	39.2	0	0.0	23	1.4	0	0.0	0	0.0	0	0.0	838	51.4
			Subtotal	0	0.0	0	0.0	155	9.5	0	0.0	616	37.8	0	0.0	838	51.4	0	0.0	23	1.4	0	0.0	0	0.0	0	0.0	1,630	100.0
	7/19 - 23 (7/19 - 9/15)	86	M	0	0.0	0	0.0	58	5.8	0	0.0	115	11.6	0	0.0	104	10.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	277	27.9
			F	0	0.0	0	0.0	0	0.0	0	0.0	104	10.5	0	0.0	577	58.2	0	0.0	35	3.5	0	0.0	0	0.0	0	0.0	715	72.1
			Subtotal	0	0.0	0	0.0	58	5.8	0	0.0	219	22.1	0	0.0	682	68.7	0	0.0	35	3.5	0	0.0	0	0.0	0	0.0	992	100.0

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Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 4 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1991 (cont.)	Season	315	M	0	0.0	0	0.0	479	6.4	0	0.0	1,745	23.3	25	0.3	1,559	20.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,805	50.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	494	6.6	0	0.0	3,118	41.6	0	0.0	83	1.1	0	0.0	0	0.0	0	0.0	3,696	49.3
			Total	0	0.0	0	0.0	479	6.4	0	0.0	2,239	29.9	25	0.3	4,677	62.4	0	0.0	83	1.1	0	0.0	0	0.0	0	0.0	7,498	100.0
1992[f]	7/6 - 10	198	M	0	0.0	0	0.0	465	16.2	0	0.0	1,231	42.9	0	0.0	290	10.1	0	0.0	29	1.0	0	0.0	0	0.0	0	0.0	2,015	70.2
	(6/20 - 7/10)		F	0	0.0	0	0.0	0	0.0	0	0.0	86	3.0	0	0.0	726	25.3	0	0.0	29	1.0	14	0.5	0	0.0	0	0.0	855	29.8
			Subtotal	0	0.0	0	0.0	465	16.2	0	0.0	1,317	45.9	0	0.0	1,016	35.4	0	0.0	57	2.0	14	0.5	0	0.0	0	0.0	2,870	100.0
	(7/11 - 16)	0	M																										
			F																										
			Subtotal																									1,932	
	7/18 - 21	151	M	0	0.0	0	0.0	518	26.5	0	0.0	582	29.8	0	0.0	154	7.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,254	64.2
	(7/17 - 8/21)		F	0	0.0	0	0.0	14	0.7	0	0.0	78	4.0	0	0.0	582	29.8	0	0.0	25	1.3	0	0.0	0	0.0	0	0.0	699	35.8
			Subtotal	0	0.0	0	0.0	531	27.2	0	0.0	660	33.8	0	0.0	736	37.7	0	0.0	25	1.3	0	0.0	0	0.0	0	0.0	1,953	100.0
	Season	349	M																										
			F																										
			Total																									6,755	
1993[f]	6/17 - 7/7	0	M																										
			F																										
			Subtotal																									4,226	
	7/10 - 14	198	M	0	0.0	0	0.0	1,917	35.4	0	0.0	1,094	20.2	0	0.0	791	14.6	0	0.0	54	1.0	0	0.0	0	0.0	0	0.0	3,856	71.2
	(7/8 - 15)		F	0	0.0	0	0.0	27	0.5	0	0.0	81	1.5	0	0.0	1,257	23.2	0	0.0	162	3.0	27	0.5	0	0.0	0	0.0	1,560	28.8
			Subtotal	0	0.0	0	0.0	1,944	35.9	0	0.0	1,175	21.7	0	0.0	2,047	37.8	0	0.0	217	4.0	27	0.5	0	0.0	0	0.0	5,416	100.0
	7/18, 21, 23, 25	115	M	0	0.0	0	0.0	866	32.2	0	0.0	702	26.1	0	0.0	280	10.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,848	68.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	116	4.3	0	0.0	562	20.9	0	0.0	164	6.1	0	0.0	0	0.0	0	0.0	842	31.3
	(7/16 - 8/13)		Subtotal	0	0.0	0	0.0	866	32.2	0	0.0	818	30.4	0	0.0	842	31.3	0	0.0	164	6.1	0	0.0	0	0.0	0	0.0	2,690	100.0
	Season	313	M																										
			F																										
			Total																									12,332	
1994[f]	7/3 - 7	198	M	0	0.0	0	0.0	989	13.1	0	0.0	3,588	47.5	38	0.5	989	13.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,604	74.2
	(6/18 - 7/8)		F	0	0.0	0	0.0	0	0.0	0	0.0	687	9.1	0	0.0	1,186	15.7	0	0.0	76	1.0	0	0.0	0	0.0	0	0.0	1,949	25.8
			Subtotal	0	0.0	0	0.0	989	13.1	0	0.0	4,275	56.6	38	0.5	2,175	28.8	0	0.0	76	1.0	0	0.0	0	0.0	0	0.0	7,553	100.0
	7/9 - 15	0	M																										
			F																										
			Subtotal																									4,555	
	7/18	34	M	0	0.0	0	0.0	90	2.9	0	0.0	1,560	50.0	0	0.0	184	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,834	58.8
	(7/16 - 8/29)		F	0	0.0	0	0.0	0	0.0	0	0.0	643	20.6	0	0.0	643	20.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,285	41.2
			Subtotal	0	0.0	0	0.0	90	2.9	0	0.0	2,202	70.6	0	0.0	827	26.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,119	100.0
	Season	232	M																										
			F																										
			Total																									15,227	
1995	7/6 - 8	151	M	0	0.0	0	0.0	2,021	23.2	0	0.0	1,732	19.9	0	0.0	1,732	19.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,485	62.9
	(7/2 - 9)		F	0	0.0	0	0.0	174	2.0	0	0.0	636	7.3	0	0.0	2,424	27.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,234	37.1
			Subtotal	0	0.0	0	0.0	2,195	25.2	0	0.0	2,369	27.2	0	0.0	4,156	47.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,718	100.0

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Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 5 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1995 (cont.)	7/12 - 14 (7/10 - 16)	138	M	0	0.0	0	0.0	955	16.7	0	0.0	1,076	18.8	0	0.0	1,241	21.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,272	57.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	332	5.8	0	0.0	2,117	37.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,449	42.8
			Subtotal	0	0.0	0	0.0	955	16.7	0	0.0	1,407	24.6	0	0.0	3,358	58.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,721	100.0
	7/18 - 20 (7/17 - 22)	146	M	0	0.0	0	0.0	353	11.0	0	0.0	462	14.4	0	0.0	725	22.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,540	47.9
			F	0	0.0	0	0.0	21	0.7	0	0.0	331	10.3	0	0.0	1,298	40.4	0	0.0	22	0.7	0	0.0	0	0.0	0	0.0	1,673	52.1
			Subtotal	0	0.0	0	0.0	374	11.6	0	0.0	793	24.7	0	0.0	2,024	63.0	0	0.0	22	0.7	0	0.0	0	0.0	0	0.0	3,213	100.0
	7/25 - 26 (7/23 - 29)	72	M	0	0.0	0	0.0	64	6.9	0	0.0	130	13.9	0	0.0	156	16.7	13	1.4	0	0.0	0	0.0	0	0.0	0	0.0	363	38.9
			F	0	0.0	0	0.0	0	0.0	0	0.0	52	5.6	0	0.0	505	54.2	0	0.0	13	1.4	0	0.0	0	0.0	0	0.0	570	61.1
			Subtotal	0	0.0	0	0.0	64	6.9	0	0.0	182	19.5	0	0.0	661	70.8	13	1.4	13	1.4	0	0.0	0	0.0	0	0.0	933	100.0
	8/1, 3, 5, 9 (7/30 - 9/2)	26	M	0	0.0	0	0.0	25	7.7	0	0.0	63	19.2	0	0.0	38	11.5	0	0.0	0	0.0	13	3.8	0	0.0	0	0.0	140	42.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	13	3.8	0	0.0	178	53.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	190	57.7
			Subtotal	0	0.0	0	0.0	25	7.7	0	0.0	76	23.1	0	0.0	216	65.4	0	0.0	0	0.0	13	3.8	0	0.0	0	0.0	330	100.0
	Season	533	M	0	0.0	0	0.0	3,419	18.1	0	0.0	3,463	18.3	0	0.0	3,893	20.6	13	0.1	0	0.0	13	0.1	0	0.0	0	0.0	10,800	57.1
			F	0	0.0	0	0.0	196	1.0	0	0.0	1,364	7.2	0	0.0	6,521	34.5	0	0.0	36	0.2	0	0.0	0	0.0	0	0.0	8,116	42.9
			Total	0	0.0	0	0.0	3,614	19.1	0	0.0	4,827	25.5	0	0.0	10,414	55.1	13	0.1	36	0.2	13	0.1	0	0.0	0	0.0	18,915	100.0
1996	7/3 -6 (6/20 - 7/8)	156	M	0	0.0	0	0.0	1,408	16.0	0	0.0	4,683	53.2	0	0.0	907	10.3	53	0.6	53	0.6	0	0.0	0	0.0	0	0.0	7,112	80.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	449	5.1	0	0.0	845	9.6	0	0.0	396	4.5	0	0.0	0	0.0	0	0.0	1,690	19.2
			Subtotal	0	0.0	0	0.0	1,408	16.0	0	0.0	5,132	58.3	0	0.0	1,752	19.9	53	0.6	449	5.1	0	0.0	0	0.0	0	0.0	8,802	100.0
	7/12- 13 (7/9 - 14)	162	M	0	0.0	0	0.0	300	9.3	0	0.0	1,611	50.0	0	0.0	419	13.0	0	0.0	81	2.5	0	0.0	0	0.0	0	0.0	2,407	74.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	119	3.7	0	0.0	516	16.0	0	0.0	180	5.6	0	0.0	0	0.0	0	0.0	815	25.3
			Subtotal	0	0.0	0	0.0	300	9.3	0	0.0	1,730	53.7	0	0.0	934	29.0	0	0.0	261	8.1	0	0.0	0	0.0	0	0.0	3,222	100.0
	7/16 - 19 (7/15 - 9/2)	162	M	0	0.0	0	0.0	80	3.7	0	0.0	779	35.8	0	0.0	389	17.9	0	0.0	26	1.2	0	0.0	0	0.0	0	0.0	1,275	58.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	161	7.4	0	0.0	511	23.5	0	0.0	228	10.5	0	0.0	0	0.0	0	0.0	900	41.4
			Subtotal	0	0.0	0	0.0	80	3.7	0	0.0	940	43.2	0	0.0	900	41.4	0	0.0	254	11.7	0	0.0	0	0.0	0	0.0	2,175	100.0
	Season	480	M	0	0.0	0	0.0	1,788	12.6	0	0.0	7,072	49.8	0	0.0	1,715	12.1	53	0.4	159	1.1	0	0.0	0	0.0	0	0.0	10,793	76.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	729	5.1	0	0.0	1,872	13.2	0	0.0	805	5.7	0	0.0	0	0.0	0	0.0	3,406	24.0
			Total	0	0.0	0	0.0	1,788	12.6	0	0.0	7,801	54.9	0	0.0	3,588	25.3	53	0.4	964	6.8	0	0.0	0	0.0	0	0.0	14,199	100.0
1997	7/3, 5, 6 (6/19 - 7/7)	200	M	0	0.0	0	0.0	2,167	33.0	0	0.0	1,281	19.5	0	0.0	952	14.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,401	67.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	131	2.0	0	0.0	2,036	31.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,167	33.0
			Subtotal	0	0.0	0	0.0	2,167	33.0	0	0.0	1,412	21.5	0	0.0	2,988	45.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,568	100.0
	7/10 - 15 (7/8 - 16)	204	M	0	0.0	0	0.0	1,047	27.9	0	0.0	716	19.1	0	0.0	808	21.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,571	68.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	19	0.5	0	0.0	1,102	29.4	0	0.0	55	1.5	0	0.0	0	0.0	0	0.0	1,175	31.4
			Subtotal	0	0.0	0	0.0	1,047	27.9	0	0.0	735	19.6	0	0.0	1,910	51.0	0	0.0	55	1.5	0	0.0	0	0.0	0	0.0	3,746	100.0
	7/19, 20 (7/17 - 9/21)	68	M	0	0.0	0	0.0	1,223	41.2	0	0.0	481	16.2	0	0.0	437	14.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,141	72.1
			F	0	0.0	0	0.0	44	1.4	0	0.0	87	2.9	0	0.0	699	23.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	830	27.9
			Subtotal	0	0.0	0	0.0	1,267	42.6	0	0.0	568	19.1	0	0.0	1,136	38.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,971	100.0
	Season	472	M	0	0.0	0	0.0	4,437	33.4	0	0.0	2,478	18.6	0	0.0	2,197	16.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,112	68.6
			F	0	0.0	0	0.0	44	0.3	0	0.0	237	1.8	0	0.0	3,837	28.9	0	0.0	55	0.4	0	0.0	0	0.0	0	0.0	4,173	31.4
			Total	0	0.0	0	0.0	4,481	33.7	0	0.0	2,715	20.4	0	0.0	6,034	45.4	0	0.0	55	0.4	0	0.0	0	0.0	0	0.0	13,285	100.0

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Table 1. Age and sex of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 6 of 6)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
	Grand	6,131	M	0	0.0	319	0.4	15,544	17.8	0	0.0	29,750	34.1	25	0.0	12,379	14.2	66	0.1	432	0.5	13	0.0	0	0.0	0	0.0	58,527	67.1
	Total [g]		F	0	0.0	0	0.0	245	0.3	0	0.0	5,151	5.9	0	0.0	21,179	24.3	0	0.0	2,097	2.4	0	0.0	8	0.0	0	0.0	28,683	32.9
			Total	0	0.0	319	0.4	15,789	18.1	0	0.0	34,901	40.0	25	0.0	33,558	38.5	66	0.1	2,529	2.9	13	0.0	8	0.0	0	0.0	87,205	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
c The weir washed out in 1987 and 1989; these years are excluded from the "Grand Total".
d All 1990 Kogrukluk chinook salmon scales need to be re-aged due to potential aging errors.
f Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".
g The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.Years excluded are 1987, 1989, and 1992 - 1994.

Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1984	6/19, 23-30 (6/19 - 30)	M	Mean Length			530		659		865		1022			
			Std. Error			8		5		18		44			
			Range			461- 580		512- 781		704- 999		939- 1089			
			Sample Size	0	0	17	0	71	0	25	0	3	0	0	0
		F	Mean Length					662		896		909			
			Std. Error					30		10		24			
			Range					616- 750		830- 987		851- 975			
			Sample Size	0	0	0	0	4	0	21	0	5	0	0	0
	7/1 - 4 (7/1 - 4)	M	Mean Length			539		662		788		947			
			Std. Error			7		5		21		19			
			Range			444- 629		511- 815		685- 934		904- 995			
			Sample Size	0	0	40	0	108	0	15	0	5	0	0	0
		F	Mean Length			568		662		835		922			
			Std. Error			-		20		11		7			
			Range			568- 568		625- 716		729- 939		896- 954			
			Sample Size	0	0	1	0	4	0	20	0	7	0	0	0
	7/5 - 7 (7/5 - 7)	M	Mean Length			545		654		804		972			
			Std. Error			8		5		21		28			
			Range			482- 661		521- 760		704- 954		944- 100			
			Sample Size	0	0	23	0	86	0	16	0	2	0	0	0
		F	Mean Length					761		867		941			
			Std. Error					67		13		25			
			Range					694- 828		798- 975		864- 1014			
			Sample Size	0	0	0	0	2	0	18	0	6	0	0	0
	7/12 - 14 (7/12 - 14)	M	Mean Length			539		647		836		994			
			Std. Error			10		7		25		-			
			Range			448- 665		505- 775		690- 964		994- 994			
			Sample Size	0	0	27	0	70	0	12	0	1	0	0	0
		F	Mean Length					772		861		897			
			Std. Error					11		11		37			
			Range					748- 810		804- 960		842- 967			
			Sample Size	0	0	0	0	5	0	17	0	3	0	0	0
	7/12 - 14 (7/12 - 14)	M	Mean Length			546		683		834					
			Std. Error			8		8		32					
			Range			457- 727		558- 835		673- 1013					
			Sample Size	0	0	46	0	64	0	13	0	0	0	0	0
		F	Mean Length							869		915			
			Std. Error							11		29			
			Range							734- 975		880- 973			
			Sample Size	0	0	0	0	0	0	29	0	3	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1984 (cont.)	7/15 - 17 (7/15 - 17)	M	Mean Length			548		664		829					
			Std. Error			8		7		28					
			Range			457- 689		540- 808		610- 1020					
			Sample Size	0	0	39	0	63	0	18	0	0	0	0	0
		F	Mean Length					705		859		960			
			Std. Error					44		9		1			
			Range					661- 749		779- 939		959- 960			
			Sample Size	0	0	0	0	2	0	28	0	2	0	0	0
	7/18 - 21 7/18 - 21	M	Mean Length		369	532		672		823		1016			
			Std. Error		-	9		8		27		-			
			Range		369- 369	408- 600		538- 845		696- 974		1016- 1016			
			Sample Size	0	1	27	0	52	0	16	0	1	0	0	0
		F	Mean Length					820		859				873	
			Std. Error					0		11				0	
			Range					820- 820		705- 938				873- 873	
			Sample Size	0	0	0	0	1	0	23	0	0	0	1	0
	7/22 - 28 (7/22 - 28)	M	Mean Length			524		659		820		967			
			Std. Error			7		7		30		48			
			Range			436- 634		530- 800		616- 1054		919- 1015			
			Sample Size	0	0	42	0	57	0	14	0	2	0	0	0
		F	Mean Length					801		873		916			
			Std. Error					13		7		23			
			Range					713- 842		756- 994		845- 990			
			Sample Size	0	0	0	0	9	0	54	0	7	0	0	0
	7/29 - 8/9, 8/12 - 14 (7/29 - 8/21)	M	Mean Length			536		650		838		1013			
			Std. Error			10		8		24		53			
			Range			381- 664		537- 785		708- 962		960- 1066			
			Sample Size	0	0	29	0	47	0	10	0	2	0	0	0
		F	Mean Length					805		860		953			
			Std. Error					-		11		20			
			Range					805- 805		742- 1000		918- 996			
			Sample Size	0	0	0	0	2	0	34	0	4	0	0	0
	Season	M	Mean Length		369	541		663		823		970			
			Range		369- 369	381- 727		505- 845		610- 1054		904- 1089			
			Sample Size	0	1	290	0	618	0	139	0	16	0	0	0
		F	Mean Length			568		740		862		926		873	
			Range			568- 568		616- 842		705 -1000		842- 1014		873- 873	
			Sample Size	0	0	1	0	29	0	244	0	37	0	1	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1985	7/7 - 10	M	Mean Length			549		682		821		957			
	(6/25 - 7/10)		Std. Error			12		7		16		16			
			Range			495- 624		540- 816		641- 1008		899- 1002			
			Sample Size	0	0	13	0	62	0	35	0	6	0	0	0
		F	Mean Length					738		889		919			
			Std. Error					47		7		21			
			Range					613- 831		736- 989		887- 958			
			Sample Size	0	0	0	0	4	0	47	0	3	0	0	0
	7/11 - 14	M	Mean Length			538		696		794		1000			
	(7/11 - 14)		Std. Error			10		6		13		0			
			Range			423- 631		599- 854		676- 1020		1000- 1000			
			Sample Size	0	0	29	0	77	0	41	0	1	0	0	0
		F	Mean Length					771		870		897			
			Std. Error					30		6		22			
			Range					721- 857		788- 951		853- 942			
			Sample Size	0	0	0	0	4	0	44	0	4	0	0	0
	7/15 - 18	M	Mean Length			546		684		795		931			
	(7/15 - 18)		Std. Error			8		6		13		145			
			Range			444- 637		562- 791		671- 798		786- 1075			
			Sample Size	0	0	41	0	77	0	33	0	2	0	0	0
		F	Mean Length					781		891		903		950	
			Std. Error					38		7		18		-	
			Range					678- 848		782- 981		841- 954		950- 950	
			Sample Size	0	0	0	0	4	0	46	0	5	0	1	0
	7/19 - 22	M	Mean Length			540		680		798					
	(7/19 - 22)		Std. Error			7		8		15					
			Range			414- 621		534- 925		597- 941					
			Sample Size	0	0	49	0	54	0	28	0	0	0	0	0
		F	Mean Length					812		856		897			
			Std. Error					11		8		32			
			Range					790- 825		748- 995		827- 960			
			Sample Size	0	0	0	0	3	0	42	0	4	0	0	0
	7/23, 25-27, 29	M	Mean Length			559		678		787					
	(7/23 - 29)		Std. Error			9		9		14					
			Range			476- 643		481- 776		659- 940					
			Sample Size	0	0	27	0	41	0	24	0	0	0	0	0
		F	Mean Length					746		868		934			
			Std. Error					29		6		22			
			Range					663- 797		751- 955		896- 996			
			Sample Size	0	0	0	0	4	0	65	0	4	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 4 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1985 (cont.)	7/30-8/3, 8/5-6, 8/8 - 10, 12 (7/30 - 8/15)	M	Mean Length			517		676		807		954			
			Std. Error			12		12		20		-			
			Range			412- 586		538- 802		698- 1000		954- 954			
			Sample Size	0	0	18	0	28	0	20	0	1	0	0	0
		F	Mean Length					766		856		850			
			Std. Error					29		8		-			
			Range					688- 827		730- 950		850- 850			
			Sample Size	0	0	0	0	4	0	46	0	1	0	0	0
	Season	M	Mean Length			544		685		802		956			
			Range			412- 643		481- 925		597- 1020		786- 1075			
			Sample Size	0	0	177	0	339	0	181	0	10	0	0	0
		F	Mean Length					764		874		908		950	
			Range					613- 857		730- 995		827- 996		950- 950	
			Sample Size	0	0	0	0	23	0	290	0	21	0	1	0
1986	6/30 - 7/6 (6/30 - 7/6)	M	Mean Length			552		661		839		945			
			Std. Error			8		5		22		56			
			Range			495- 585		525- 835		696- 1052		815- 1050			
			Sample Size	0	0	12	0	109	0	18	0	4	0	0	0
		F	Mean Length					815		892		925			
			Std. Error					-		9		11			
			Range					815- 815		782- 971		885- 951			
			Sample Size	0	0	0	0	1	0	27	0	5	0	0	0
	7/7 - 10 (7/7 - 10)	M	Mean Length			542		678		783		938			
			Std. Error			12		5		17		70			
			Range			458- 646		515- 890		698- 960		868- 1008			
			Sample Size	0	0	16	0	127	0	18	0	2	0	0	0
		F	Mean Length					808		864		876			
			Std. Error					24		9		21			
			Range					784- 832		801- 955		855- 897			
			Sample Size	0	0	0	0	2	0	20	0	2	0	0	0
	7/11 - 14 (7/11 - 14)	M	Mean Length			540		668		790		991			
			Std. Error			9		7		23		42			
			Range			465- 611		520- 925		682- 930		880- 1064			
			Sample Size	0	0	21	0	99	0	14	0	4	0	0	0
		F	Mean Length					819		867		872			
			Std. Error					12		8		23			
			Range					795- 831		785- 959		744- 965			
			Sample Size	0	0	0	0	3	0	36	0	11	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 5 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1986 (cont.)	7/15 - 19 (7/15 - 8/28)	M	Mean Length		335	511		680		838		912			
			Std. Error		-	18		10		27		7			
			Range		335- 335	410- 584		493- 886		691- 1014		905- 919			
			Sample Size	0	1	10	0	52	0	14	0	2	0	0	0
		F	Mean Length					794		868		928			
			Std. Error					18		9		17			
			Range					769- 829		738- 970		860- 1009			
			Sample Size	0	0	0	0	3	0	37	0	9	0	0	0
	Season	M	Mean Length		335 0	527		675		822		940			
			Range		355- 355	410- 646		493- 925		682- 1052		815- 1064			
			Sample Size	0 0	1 0	59 0	0 0	387 0	0 0	64 0	0 0	12 0	0 0	0 0	0
		F	Mean Length					801		869		913			
			Range					769- 832		738- 971		744- 1009			
			Sample Size	0 0	0 0	0 0	0 0	9 0	0 0	120 0	0 0	27 0	0 0	0 0	0
1987[b]	7/15 - 16	M	Mean Length			555		720		821		970			
			Std. Error			8		10		12		-			
			Range			485- 660		590- 810	#	715- 950		970- 970			
			Sample Size	0	0	30	0	28	0	25	0	1	0	0	0
		F	Mean Length					810		869					
			Std. Error					-		8					
			Range					810- 810		765- 970					
			Sample Size	0	0	0	0	1	0	32	0	0	0	0	0
	8/10 - 14	M	Mean Length		300	537		739		839					
			Std. Error		-	24		18		17					
			Range		300- 300	415- 660		695-810		790- 900					
			Sample Size	0	1	9	0	6	0	7	0	0	0	0	0
		F	Mean Length							920					
			Std. Error							-					
			Range							920- 920					
			Sample Size	0	0	0	0	0	0	1	0	0	0	0	0
	Season[c]	M	Mean Length		300							970			
			Range		300- 300	415- 660		590- 810		715- 950		970- 970			
			Sample Size	0 0	1 0	39 0	0 0	34 0	0 0	32 0	0 0	1 0	0 0	0 0	0
		F	Mean Length					810							
			Range					810- 810		765- 970	0				
			Sample Size	0 0	0 0	0 0	0 0	1 0	0 0	33 0	0 0	0 0	0 0	0 0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 6 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1988	7/6 - 9	M	Mean Length			585		721		833		860			
	(6/24 - 7/9)		Std. Error			12		6		18		60			
			Range			510- 675		550- 935		615- 970		800- 920			
			Sample Size	0	0	14	0	99	0	24	0	2	0	0	0
		F	Mean Length					812		860		913			
			Std. Error					17		10		7			
			Range					640- 885		695- 970		870- 970			
			Sample Size	0	0	0	0	15	0	38	0	12	0	0	0
	7/10 - 13	M	Mean Length			578		717		833		863			
	(7/10 - 13)		Std. Error			13		5		10		53			
			Range			495- 655		575- 825		680- 925		810- 915			
			Sample Size	0	0	14	0	94	0	26	0	2	0	0	0
		F	Mean Length					797		862		893			
			Std. Error					9		7		15			
			Range					720- 860		765- 995		740- 780			
			Sample Size	0	0	0	0	14	0	44	0	14	0	0	0
	7/14 - 17	M	Mean Length			567		727		818		865			
	(7/14 - 17)		Std. Error			11		7		13		-			
			Range			405- 635		560- 905		685- 905		865- 865			
			Sample Size	0	0	23	0	83	0	19	0	1	0	0	0
		F	Mean Length					828		868		908			
			Std. Error					8		7		11			
			Range					770- 900		755- 1002		825- 970			
			Sample Size	0	0	0	0	22	0	45	0	16	0	0	0
	7/18 - 21	M	Mean Length			552		738		859					
	(7/18 - 21)		Std. Error			14		9		27					
			Range			440- 650		630- 910		750- 995					
			Sample Size	0	0	17	0	58	0	8	0	0	0	0	0
		F	Mean Length					825		876		910			
			Std. Error					10		7		11			
			Range					745- 860		750- 945		860- 980			
			Sample Size	0	0	0	0	11	0	33	0	13	0	0	0
	7/22 - 27	M	Mean Length			507		729		805		912			
	(7/22 - 8/29)		Std. Error			12		12		23		55			
			Range			450- 565		520- 830		695- 980		815- 1005			
			Sample Size	0	0	10	0	34	0	12	0	3	0	0	0
		F	Mean Length					826		878		902			
			Std. Error					7		14		16			
			Range					780- 885		710- 965		825- 1000			
			Sample Size	0	0	0	0	14	0	21	0	12	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 7 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1988 (cont.)	Season	M	Mean Length			570		722		829		871			
			Range			405- 675		520- 935		615- 995		800- 1005			
			Sample Size	0 0	0 0	78 0	0 0	368 0	0 0	89 0	0 0	8 0	0 0	0 0	0
		F	Mean Length					814		864		905			
			Range					640- 900		695- 1002		740- 1000			
			Sample Size	0 0	0 0	0 0	0 0	76 0	0 0	181 0	0 0	67 0	0 0	0 0	0
1989[b]	7/7 - 10	M	Mean Length			586		694		834		980			
			Std. Error			21		19		15		-			
			Range			520- 780		515- 850		600- 1030		980- 980			
			Sample Size	0	0	11	0	21	0	36	0	1	0	0	0
		F	Mean Length					799		890		918			
			Std. Error					40		11		58			
			Range					695- 880		795- 1020		860- 975			
			Sample Size	0	0	0	0	4	0	35	0	2	0	0	0
	7/11 - 14	M	Mean Length			562		702		841		680			
			Std. Error			7		14		22		-			
			Range			495- 614		560- 910		590- 1020		680- 680			
			Sample Size	0 0	0 0	21 0	0	39 0	0 0	21 0	0 0	1 0	0 0	0 0	0
		F	Mean Length							884					
			Std. Error							7					
			Range							810- 990					
			Sample Size	0	0 0	0 0	0 0	0 0	0 0	34 0	0 0	0 0	0 0	0 0	0
	Season[c]	M	Mean Length												
			Range			495- 780		515- 910		590- 1030		680- 980			
			Sample Size	0 0	0 0	32 0	0 0	51 0	0 0	57 0	0 0	2 0	0 0	0 0	0
		F	Mean Length												
			Range					695- 880		795- 1020		860- 975			
			Sample Size	0 0	0 0	0 0	0 0	4 0	0 0	69 0	0 0	2 0	0 0	0 0	0
1990[d]	6/30; 7/1 - 7 (6/19 - 7/7)	M	Mean Length		568	584		709		834					
			Std. Error		3	6		7		19					
			Range		565- 570	500- 685		540- 840		775- 930					
			Sample Size	0	2	50	0	76	0	7	0	0	0	0	0
		F	Mean Length					816		896					
			Std. Error					16		14					
			Range					740- 890		840- 975					
			Sample Size	0	0	0	0	9	0	8	0	0	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 8 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1990 (cont.)	7/8 - 14 (7/8 - 14)	M	Mean Length		555	577		728		887					
			Std. Error		20	7		8		22					
			Range		519- 598	509- 652		613- 872		865- 908					
			Sample Size	0	4	40	0	62	0	2	0	0	0	0	0
		F	Mean Length					831		855		852			
			Std. Error					11		17		-			
			Range					745- 963		760- 945		852- 852			
			Sample Size	0	0	0	0	16	0	10	0	1	0	0	0
	7/15 - 20, 22 (7/15 - 8/23)	M	Mean Length		599	605		756		872					
			Std. Error		21	13		9		49					
			Range		567- 639	527- 672		630- 873		823- 921					
			Sample Size	0	3	9	0	40	0	2	0	0	0	0	0
		F	Mean Length					842		851					
			Std. Error					11		12					
			Range					775- 939		775- 911					
			Sample Size	0	0	0	0	16	0	10	0	0	0	0	0
	Season	M	Mean Length		576	584		733		859					
			Range		519- 639	500- 685		540- 873		775- 930					
			Sample Size	0	9	99	0	178	0	11	0	0	0	0	0
		F	Mean Length					835		859		852			
			Range					740- 963		760- 975		852- 852			
			Sample Size	0	0	0	0	41	0	28	0	1	0	0	0
1991	7/6 - 10 (7/4 - 10)	M	Mean Length			507		751		887					
			Std. Error			41		16		23					
			Range			425- 555		635- 885		530- 1100					
			Sample Size	0	0	3	0	19	0	25	0	0	0	0	0
		F	Mean Length					810		890					
			Std. Error					18		7					
			Range					775- 835		810- 950					
			Sample Size	0	0	0	0	3	0	30	0	0	0	0	0
	7/11 - 14 (7/11 - 14)	M	Mean Length			578		744	660	843					
			Std. Error			22		15	-	18					
			Range			500- 640		530- 820	660- 660	735- 935					
			Sample Size	0	0	6	0	19	1	13	0	0	0	0	0
		F	Mean Length					806		902		930			
			Std. Error					20		11		-			
			Range					765- 860		710- 1035		930- 930			
			Sample Size	0	0	0	0	4	0	31	0	1	0	0	0

- continued -

Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 9 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1991 (cont.)	7/15 - 18 (7/15 - 18)	M	Mean Length			539		769		887					
			Std. Error			13		14		26					
			Range			480- 570		670- 890		775- 980					
			Sample Size	0	0	7	0	20	0	9	0	0	0	0	0
		F	Mean Length					839		894		980			
			Std. Error					12		9		-			
			Range					800- 900		825- 980		980- 980			
			Sample Size	0	0	0	0	8	0	29	0	1	0	0	0
	7/19 - 23 (7/19 - 9/15)	M	Mean Length			574		794		794					
			Std. Error			17		25		43					
			Range			550- 640		710- 915		530- 910					
			Sample Size	0	0	5	0	10	0	9	0	0	0	0	0
		F	Mean Length					816		876		913			
			Std. Error					20		7		30			
			Range					690- 910		740- 1010		870- 970			
			Sample Size	0	0	0	0	9	0	50	0	3	0	0	0
	Season	M	Mean Length			548		756	660	871					
			Range			425- 640		530- 915	660- 660	530- 1100					
			Sample Size	0	0	21	0	68	1	56	0	0	0	0	0
		F	Mean Length					821		891		937			
			Range					690- 910		710- 1035		870- 980			
			Sample Size	0	0	0	0	24	0	140	0	5	0	0	0
1992[f]	7/6 - 10 (6/20 - 7/14)	M	Mean Length			584		724		828		873			
			Std. Error			8		7		21		78			
			Range			500- 690		565- 875		640- 975		795- 950			
			Sample Size	0	0	32	0	84	0	19	0	2	0	0	0
		F	Mean Length					782		885		940	850		
			Std. Error					26		7		-	-		
			Range					660- 835		730- 1000		940- 940	850- 850		
			Sample Size	0	0	0	0	6	0	50	0	2	1	0	0
	7/18 - 21 (6/15 - 8/21)	M	Mean Length			600		741		853					
			Std. Error			8		11		20					
			Range			515- 775		570- 890		730- 975					
			Sample Size	0	0	40	0	45	0	12	0	0	0	0	0
		F	Mean Length			635		823		902		890			
			Std. Error			-		20		7		70			
			Range			635- 635		750- 960		810- 995		820- 960			
			Sample Size	0	0	1	0	6	0	45	0	2	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 10 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1993[f]	7/10 -14 (6/18 - 7/15)	M	Mean Length			586		705		821		895			
			Std. Error			7		11		19		85			
			Range			480- 865		560- 840		550- 980		810- 980			
			Sample Size	0	0	70	0	40	0	29	0	2	0	0	0
		F	Mean Length			620		773		876		908	950		
			Std. Error			-		32		8		18	-		
			Range			620- 620		710- 805		710- 995		840- 960	950- 950		
			Sample Size	0	0	1	0	3	0	46	0	6	1	0	0
	7/18, 21, 23, 25 (7/16 - 8/13)	M	Mean Length			599		682		796					
			Std. Error			8		13		19					
			Range			505- 690		545- 850		680- 910					
			Sample Size	0	0	37	0	30	0	12	0	0	0	0	0
		F	Mean Length					822		891		867			
			Std. Error					10		7		17			
			Range					800- 850		820- 950		820- 925			
			Sample Size	0	0	0	0	5	0	24	0	7	0	0	0
1994[f]	7/3 - 7 (6/18 - 7/8)	M	Mean Length			611		742	625	838					
			Std. Error			15		7	-	15					
			Range			505- 815		595- 980	625- 625	725- 1050					
			Sample Size	0	0	26	0	94	1	26	0	0	0	0	0
		F	Mean Length					838		868		868			
			Std. Error					9		12		13			
			Range					745- 910		720- 965		855- 880			
			Sample Size	0	0	0	0	18	0	31	0	2	0	0	0
	7/18 (7/16 - 8/29)	M	Mean Length			630		750		915					
			Std. Error			-		14		35					
			Range			630- 630		660- 840		880- 950					
			Sample Size	0	0	1	0	17	0	2	0	0	0	0	0
		F	Mean Length					835		906					
			Std. Error					11		22					
			Range					785- 885		795- 985					
			Sample Size	0	0	0	0	7	0	7	0	0	0	0	0
1995	7/6 - 8 (7/2 - 9)	M	Mean Length			609		712		857					
			Std. Error			10		15		19					
			Range			510- 740		580- 875		690- 1010					
			Sample Size	0	0	35	0	30	0	30	0	0	0	0	0
		F	Mean Length			625		791		871					
			Std. Error			8		21		8					
			Range			610- 635		705- 885		710- 985					
			Sample Size	0	0	3	0	11	0	38	0	0	0	0	0

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Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 11 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995 (cont.)	7/12 - 14 (7/10 - 16)	M	Mean Length			576		733		871					
			Std. Error			8		10		17					
			Range			515- 680		605- 840		725- 1035					
			Sample Size	0	0	23	0	26	0	30	0	0	0	0	0
		F	Mean Length					760		889					
			Std. Error					20		8					
			Range					690- 840		750- 985					
			Sample Size	0	0	0	0	8	0	51	0	0	0	0	0
	7/18 - 20 (7/17 - 22)	M	Mean Length			602		756		822					
			Std. Error			12		18		17					
			Range			515- 680		625- 900		550- 1020					
			Sample Size	0	0	16	0	21	0	33	0	0	0	0	0
		F	Mean Length			570		785		881		905			
			Std. Error			-		13		7		-			
			Range			570- 570		720- 885		740- 1000		905- 905			
			Sample Size	0	0	1	0	15	0	59	0	1	0	0	0
	7/25 - 26 (7/23 - 29)	M	Mean Length			587		754		865	875				
			Std. Error			14		13		25	-				
			Range			555- 630		660- 815		745- 1050	875- 875				
			Sample Size	0	0	5	0	10	0	12	1	0	0	0	0
		F	Mean Length					795		889		1020			
			Std. Error					15		8		-			
			Range					760- 825		770- 965		1020- 1020			
			Sample Size	0	0	0	0	4	0	39	0	1	0	0	0
	8/1, 3, 5, 9 (7/30 - 9/2)	M	Mean Length			518		756		810			775		
			Std. Error			18		26		23			-		
			Range			500- 535		680- 845		765- 840			775- 775		
			Sample Size	0	0	2	0	5	0	3	0	0	1	0	0
		F	Mean Length					840		866					
			Std. Error					-		10					
			Range					840- 840		795- 935					
			Sample Size	0	0	0	0	1	0	14	0	0	0	0	0
	Season	M	Mean Length			598		727		855	875		775		
			Range			500- 740		580- 900		550- 1050	875- 875		775- 775		
			Sample Size	0	0	81	0	92	0	108	1	0	1	0	0
		F	Mean Length			619		783		880		947			
			Range			570- 635		690- 885		710- 1000		905- 1020			
			Sample Size	0	0	4	0	39	0	201	0	2	0	0	0

- continued -

Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 12 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996	7/3 -6 (6/20 - 7/8)	M	Mean Length			589		707		809	777	958			
			Std. Error			10		6		22	-	-			
			Range			503- 757		572- 854		702- 1011	777- 777	958- 958			
			Sample Size	0	0	25	0	83	0	16	1	1	0	0	0
		F	Mean Length					759		844		954			
			Std. Error					18		23		35			
			Range					685- 847		700- 992		795- 1072			
			Sample Size	0	0	0	0	8	0	15	0	7	0	0	0
	7/12- 13 (7/9 - 14)	M	Mean Length			560		737		819		921			
			Std. Error			14		5		16		29			
			Range			440- 648		662- 931		724- 983		857- 996			
			Sample Size	0	0	15	0	81	0	21	0	4	0	0	0
		F	Mean Length					798		864		904			
			Std. Error					19		8		19			
			Range					710- 834		793- 940		825- 978			
			Sample Size	0	0	0	0	6	0	26	0	9	0	0	0
	7/16 - 19 (7/15 - 9/2)	M	Mean Length			572		729		818		949			
			Std. Error			28		8		11		60			
			Range			461- 674		613- 842		660- 915		889- 1009			
			Sample Size	0	0	6	0	58	0	29	0	2	0	0	0
		F	Mean Length					829		864		921			
			Std. Error					13		8		13			
			Range					705- 879		782- 983		830- 1009			
			Sample Size	0	0	0	0	12	0	38	0	17	0	0	0
	Season	M	Mean Length			583		716		814	777	938			
			Range			440- 757		572- 931		660- 1011	777- 777	857- 1009			
			Sample Size	0	0	46	0	222	0	66	1	7	0	0	0
		F	Mean Length					781		855		933			
			Range					685- 879		700- 992		795- 1072			
			Sample Size	0	0	0	0	26	0	79	0	33	0	0	0
1997	7/3, 5, 6 (6/19 - 7/7)	M	Mean Length			611		718		846					
			Std. Error			6		9		17					
			Range			510- 715		605- 845		655-1050					
			Sample Size	0	0	66	0	39	0	29	0	0	0	0	0
		F	Mean Length					753		887					
			Std. Error					16		6					
			Range					720- 795		800-1000					
			Sample Size	0	0	0	0	4	0	62	0	0	0	0	0

- continued -

Table 2. Mean length (mm) of chinook salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 13 of 13).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997 (cont.)	7/10 - 15 (7/8 - 16)	M	Mean Length			623		707		821					
			Std. Error			8		7		9					
			Range			480- 730		625- 790		690- 965					
			Sample Size	0	0	57	0	39	0	44	0	0	0	0	0
		F	Mean Length					760		871		888			
			Std. Error					-		7		3			
			Range					760- 760		735-1005		885- 895			
			Sample Size	0	0	0	0	1	0	60	0	3	0	0	0
	7/19, 20 (7/17 - 9/21)	M	Mean Length			607		778		872					
			Std. Error			9		11		26					
			Range			540- 760		700- 830		745-1000					
			Sample Size	0	0	28	0	11	0	10	0	0	0	0	0
		F	Mean Length			620		783		900					
			Std. Error			-		28		11					
			Range			620- 620		755- 810		820- 960					
			Sample Size	0	0	1	0	2	0	16	0	0	0	0	0
	Season	M	Mean Length			613		726		842					
			Range			480- 760		605- 845		655-1050					
			Sample Size	0	0	151	0	89	0	83	0	0	0	0	0
		F	Mean Length			620		764		884		888			
			Range			620- 620		720- 810		735-1005		885- 895			
			Sample Size	0	0	1	0	7	0	138	0	3	0	0	0
	Grand Total [g]	M	Mean Length		427	567		711	660	835	826	935	775		
			Range		355- 639	381- 760		481- 935	660- 660	530- 1100	777- 875	786- 1089	775- 775		
			Sample Size	0	11	1,002	0	2,361	1	797	2	53	1	0	0
		F	Mean Length			602		789	0	871	0	912		912	
			Range			568- 635		613- 963		695- 1035		740- 1072		873- 950	
			Sample Size	0	0	6	0	274	0	1,421	0	196	0	2	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] The weir washed out in 1987 and 1989; these years are excluded from the "Grand Total".
[c] "Season" mean lengths are simple averages of number of fish sampled.
[d] All 1990 Kogrukluk chinook salmon scales need to be re-aged due to potential aging errors.
[f] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in "Grand Total".
[g] "Grand Total" mean lengths are simple averages of the "Season" mean lengths. Years excluded are 1987, 1989, and 1992 - 1994.

Table 3. Age and sex of chinook salmon at the George River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1998	6/24 - 25	44	M	0	0.0	0	0.0	91	6.8	0	0.0	272	20.5	30	2.3	121	9.1	0	0.0	30	2.3	0	0.0	0	0.0	0	0.0	544	40.9
	(6/21 - 6/26)		F	0	0.0	0	0.0	60	4.5	0	0.0	212	15.9	0	0.0	302	22.7	0	0.0	212	15.9	0	0.0	0	0.0	0	0.0	786	59.1
			Subtotal	0	0.0	0	0.0	151	11.4	0	0.0	484	36.4	30	2.3	423	31.8	0	0.0	242	18.2	0	0.0	0	0.0	0	0.0	1,330	100.0
	6/28	25	M	0	0.0	0	0.0	0	0.0	0	0.0	15	4.0	0	0.0	119	32.0	0	0.0	30	8.0	0	0.0	0	0.0	0	0.0	164	44.0
	(6/27 - 29)		F	0	0.0	0	0.0	15	4.0	0	0.0	89	24.0	0	0.0	45	12.0	0	0.0	60	16.0	0	0.0	0	0.0	0	0.0	208	56.0
			Subtotal	0	0.0	0	0.0	15	4.0	0	0.0	104	28.0	0	0.0	164	44.0	0	0.0	89	24.0	0	0.0	0	0.0	0	0.0	372	100.0
	7/2	32	M	0	0.0	0	0.0	0	0.0	0	0.0	317	12.5	0	0.0	476	18.8	0	0.0	476	18.8	0	0.0	0	0.0	0	0.0	1,270	50.0
	(6/30 - 7/4)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	555	21.9	0	0.0	714	28.1	0	0.0	0	0.0	0	0.0	1,270	50.0
			Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	317	12.5	0	0.0	1,031	40.6	0	0.0	1,190	46.9	0	0.0	0	0.0	0	0.0	2,539	100.0
	7/7, 9	90	M	0	0.0	0	0.0	289	8.9	0	0.0	541	16.7	0	0.0	469	14.4	0	0.0	289	8.9	0	0.0	0	0.0	0	0.0	1,587	48.9
	(7/5 - 26)		F	0	0.0	0	0.0	36	1.1	0	0.0	144	4.4	0	0.0	866	26.7	0	0.0	613	18.9	0	0.0	0	0.0	0	0.0	1,659	51.1
			Subtotal	0	0.0	0	0.0	325	10.0	0	0.0	685	21.1	0	0.0	1,334	41.1	0	0.0	902	27.8	0	0.0	0	0.0	0	0.0	3,246	100.0
	Season	191	M	0	0.0	0	0.0	379	5.1	0	0.0	1,145	15.3	30	0.4	1,185	15.8	0	0.0	825	11.0	0	0.0	0	0.0	0	0.0	3,564	47.6
			F	0	0.0	0	0.0	111	1.5	0	0.0	445	5.9	0	0.0	1,768	23.6	0	0.0	1,598	21.3	0	0.0	0	0.0	0	0.0	3,923	52.4
			Total	0	0.0	0	0.0	491	6.6	0	0.0	1,590	21.2	30	0.4	2,953	39.4	0	0.0	2,423	32.4	0	0.0	0	0.0	0	0.0	7,487	100.0
1997	6/24, 26, 27	64	M	0	0.0	0	0.0	421	15.6	0	0.0	295	10.9	0	0.0	378	14.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,094	40.6
	(6/9 - 27)		F	0	0.0	0	0.0	336	12.5	0	0.0	168	6.3	0	0.0	1,094	40.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,598	59.4
			Subtotal	0	0.0	0	0.0	757	28.1	0	0.0	463	17.2	0	0.0	1,472	54.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,692	100.0
	6/28 - 30	87	M	0	0.0	0	0.0	455	14.9	0	0.0	245	8.0	0	0.0	525	17.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,226	40.2
	(6/28 - 7/3)		F	0	0.0	0	0.0	701	23.0	0	0.0	105	3.5	0	0.0	1,016	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,821	59.8
			Subtotal	0	0.0	0	0.0	1,156	37.9	0	0.0	350	11.5	0	0.0	1,541	50.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,047	100.0
	7/7 - 11	69	M	0	0.0	0	0.0	502	37.7	0	0.0	39	2.9	0	0.0	290	21.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	831	62.3
	(7/4 - 12)		F	0	0.0	0	0.0	20	1.4	0	0.0	0	0.0	0	0.0	483	36.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	502	37.7
			Subtotal	0	0.0	0	0.0	522	39.1	0	0.0	39	2.9	0	0.0	773	58.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,333	100.0
	7/14 - 18,	49	M	0	0.0	0	0.0	275	36.7	0	0.0	46	6.1	0	0.0	137	18.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	458	61.2
	21, 23, 27		F	0	0.0	0	0.0	0	0.0	0	0.0	15	2.1	0	0.0	275	36.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	290	38.8
	(7/13 - 8/22)		Subtotal	0	0.0	0	0.0	275	36.7	0	0.0	61	8.2	0	0.0	412	55.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	748	100.0
	Season	269	M	0	0.0	0	0.0	1,653	21.1	0	0.0	624	8.0	0	0.0	1,331	17.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,608	46.1
			F	0	0.0	0	0.0	1,056	13.5	0	0.0	289	3.7	0	0.0	2,867	36.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,212	53.9
			Total	0	0.0	0	0.0	2,709	34.6	0	0.0	913	11.7	0	0.0	4,198	53.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,820	100.0
	Grand	460	M	0	0.0	0	0.0	2,032	13.3	0	0.0	1,769	11.6	30	0.2	2,516	16.4	0	0.0	825	5.4	0	0.0	0	0.0	0	0.0	7,172	46.9
	Total[c]		F	0	0.0	0	0.0	1,167	7.6	0	0.0	734	4.8	0	0.0	4,635	30.3	0	0.0	1,598	10.4	0	0.0	0	0.0	0	0.0	8,135	53.1
			Total	0	0.0	0	0.0	3,200	20.9	0	0.0	2,503	16.4	30	0.2	7,151	46.7	0	0.0	2,423	15.8	0	0.0	0	0.0	0	0.0	15,307	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 4. Mean length (mm) of chinook salmon at the George River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996	6/24 - 25	M	Mean Length			565		674	600	823		955			
	(6/21 - 6/26)		Std. Error			50		18	-	27		-			
			Range			505- 664		575- 734	600- 600	742- 860		955- 955			
			Sample Size	0	0	3	0	9	1	4	0	1	0	0	0
		F	Mean Length			518		722		894		849			
			Std. Error			18		25		17		45			
			Range			500- 535		648- 848		812- 963		659- 986			
			Sample Size	0	0	2	0	7	0	10	0	7	0	0	0
	6/28	M	Mean Length					775		908		992			
	(6/27 - 29)		Std. Error					-		20		7			
			Range					775- 775		805- 970		985- 998			
			Sample Size	0	0	0	0	1	0	8	0	2	0	0	0
		F	Mean Length			620		735		856		859			
			Std. Error			-		27		41		53			
			Range			620- 620		664- 848		805- 938		710- 952			
			Sample Size	0	0	1	0	6	0	3	0	4	0	0	0
	7/2	M	Mean Length					723		843		919			
	(6/30 - 7/4)		Std. Error					18		47		22			
			Range					684- 766		669- 981		824- 976			
			Sample Size	0	0	0	0	4	0	6	0	6	0	0	0
		F	Mean Length							852		926			
			Std. Error							16		14			
			Range							785- 919		860- 987			
			Sample Size	0	0	0	0	0	0	7	0	9	0	0	0
	7/7, 9	M	Mean Length			609		726		845		945			
	(7/5 - 26)		Std. Error			36		21		21		24			
			Range			520- 775		595- 885		741- 972		812- 1010			
			Sample Size	0	0	8	0	15	0	13	0	8	0	0	0
		F	Mean Length			542		790		844		898			
			Std. Error			-		38		12		16			
			Range			542- 542		669- 879		640- 925		714- 1000			
			Sample Size	0	0	1	0	4	0	24	0	17	0	0	0
	Season	M	Mean Length			598		713	600	848		932			
			Range			505- 775		575- 885	600- 600	669- 981		812- 1010			
			Sample Size	0	0	11	0	29	1	31	0	17	0	0	0
		F	Mean Length			539		746		856		902			
			Range			500- 620		664- 879		640- 963		659- 1000			
			Sample Size	0	0	4	0	17	0	44	0	37	0	0	0

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Table 4. Mean length (mm) of chinook salmon at the George River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997	6/24, 26, 27 (6/9 - 27)	M	Mean Length			608		758		854					
			Std. Error			16		22		17					
			Range			521- 669		669- 820		786- 923					
			Sample Size	0	0	10	0	7	0	9	0	0	0	0	0
		F	Mean Length			566		707		855					
			Std. Error			15		23		9					
			Range			504- 619		660- 761		713- 967					
			Sample Size	0	0	8	0	4	0	26	0	0	0	0	0
	6/28 - 30 (6/28 - 7/3)	M	Mean Length			596		735		824					
			Std. Error			21		13		14					
			Range			472- 718		692- 778		725- 895					
			Sample Size	0	0	13	0	7	0	15	0	0	0	0	0
		F	Mean Length			537		693		836					
			Std. Error			13		32		8					
			Range			425- 645		634- 746		700- 923					
			Sample Size	0	0	20	0	3	0	29	0	0	0	0	0
	7/7 - 11 (7/4 - 12)	M	Mean Length			566		795		851					
			Std. Error			10		35		19					
			Range			470- 638		760- 830		705- 983					
			Sample Size	0	0	26	0	2	0	15	0	0	0	0	0
		F	Mean Length			500				843					
			Std. Error			-				8					
			Range			500- 500				771- 900					
			Sample Size	0	0	1	0	0	0	25	0	0	0	0	0
	7/14 - 18; 21, 23, 27 (7/13 - 8/22)	M	Mean Length			556		690		865					
			Std. Error			16		53		27					
			Range			457- 680		594- 777		749- 998					
			Sample Size	0	0	18	0	3	0	9	0	0	0	0	0
		F	Mean Length					785		843					
			Std. Error					-		11					
			Range					785- 785		735- 914					
			Sample Size	0	0	0	0	1	0	18	0	0	0	0	0
	Season	M	Mean Length			583		747		843					
			Range			457- 718		594- 830		705- 998					
			Sample Size	0	0	67	0	19	0	48	0	0	0	0	0
		F	Mean Length			545		706		845					
			Range			425- 645		634- 785		700- 967					
			Sample Size	0	0	29	0	8	0	98	0	0	0	0	0

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Table 4. Mean length (mm) of chinook salmon at the George River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
	Grand Total [b]	M	Mean Length			591		730	600	846		932			
			Range			457- 775		575- 885	600- 600	669- 998		812- 1010			
			Sample Size	0	0	78	0	48	1	79	0	17	0	0	0
		F	Mean Length			542		726		850		902			
			Range			425- 645		634- 879		640- 967		659- 1000			
			Sample Size	0	0	33	0	25	0	142	0	37	0	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 5. Age and sex of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap.[a]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1991	6/23-24, 26-7/6	91	M	0	0.0	0	0.0	9	8.8	0	0.0	28	26.4	10	9.9	12	11.0	10	9.9	1	1.1	1	1.1	0	0.0	1	1.1	73	69.2
	(6/23 - 7/6)		F	0	0.0	0	0.0	3	3.3	0	0.0	5	4.4	1	1.1	14	13.2	2	2.2	3	3.3	2	2.2	0	0.0	1	1.1	33	30.8
			Subtotal	0	0.0	0	0.0	13	12.1	0	0.0	33	30.8	12	11.0	26	24.2	13	12.1	5	4.4	3	3.3	0	0.0	2	2.2	106	100.0
	7/7 - 9	72	M	0	0.0	0	0.0	70	18.1	0	0.0	80	20.8	43	11.1	70	18.1	27	6.9	11	2.8	11	2.8	0	0.0	5	1.4	317	81.9
	(7/7 - 13)		F	0	0.0	0	0.0	0	0.0	0	0.0	5	1.4	0	0.0	48	12.5	0	0.0	16	4.2	0	0.0	0	0.0	0	0.0	70	18.1
			Subtotal	0	0.0	0	0.0	70	18.1	0	0.0	86	22.2	43	11.1	118	30.6	27	6.9	27	7.0	11	2.8	0	0.0	5	1.4	387	100.0
	7/14 - 20	127	M	0	0.0	0	0.0	24	17.3	0	0.0	12	8.7	15	11.0	17	12.6	6	4.7	3	2.4	1	0.8	0	0.0	0	0.0	79	57.5
	(7/14 - 20)		F	0	0.0	0	0.0	0	0.0	0	0.0	4	3.1	0	0.0	37	26.8	1	0.8	13	9.4	2	1.6	0	0.0	1	0.8	58	42.5
			Subtotal	0	0.0	0	0.0	24	17.3	0	0.0	16	11.8	15	11.0	54	39.4	8	5.5	16	11.8	3	2.4	0	0.0	1	0.8	137	100.0
	7/21 - 29, 8/2	58	M	0	0.0	0	0.0	5	7.1	0	0.0	7	10.7	1	1.8	8	12.5	0	0.0	2	3.6	1	1.8	0	0.0	0	0.0	25	37.5
	3, 12		F	0	0.0	0	0.0	0	0.0	0	0.0	4	5.4	0	0.0	25	37.5	1	1.8	7	10.7	2	3.6	2	3.6	0	0.0	42	62.5
	(7/21 - 8/21)		Subtotal	0	0.0	0	0.0	5	7.1	0	0.0	11	16.1	1	1.8	34	50.0	1	1.8	10	14.3	4	5.4	2	3.6	0	0.0	67	100.0
	Season	346	M	0	0.0	0	0.0	108	15.5	0	0.0	128	18.3	70	10.0	107	15.4	44	6.3	18	2.5	14	2.1	0	0.0	7	0.9	494	70.9
			F	0	0.0	0	0.0	3	0.5	0	0.0	18	2.6	1	0.2	124	17.8	5	0.7	40	5.7	7	1.0	2	0.3	2	0.3	203	29.1
			Total	0	0.0	0	0.0	111	16.0	0	0.0	146	20.9	71	10.2	232	33.2	48	6.9	58	8.2	21	3.0	2	0.3	9	1.3	697	100.0
1992	6/26, 28 - 30;	132	M	0	0.0	3	2.3	33	22.0	0	0.0	66	43.9	0	0.0	8	5.3	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	112	74.2
	7/1 - 4		F	0	0.0	0	0.0	7	4.5	0	0.0	7	4.5	0	0.0	22	14.4	0	0.0	3	2.3	0	0.0	0	0.0	0	0.0	39	25.8
	(6/26 - 7/4)		Subtotal	0	0.0	3	2.3	40	26.5	0	0.0	73	48.4	0	0.0	30	19.7	0	0.0	5	3.1	0	0.0	0	0.0	0	0.0	151	100.0
	7/5 - 9	138	M	0	0.0	33	8.8	189	50.0	0	0.0	113	30.1	0	0.0	3	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	338	89.7
	(7/5 - 11)		F	0	0.0	0	0.0	0	0.0	0	0.0	8	2.2	0	0.0	22	5.9	0	0.0	8	2.2	0	0.0	0	0.0	0	0.0	39	10.3
			Subtotal	0	0.0	33	8.8	189	50.0	0	0.0	122	32.3	0	0.0	25	6.6	0	0.0	8	2.2	0	0.0	0	0.0	0	0.0	377	100.0
	7/12 - 16, 18	122	M	0	0.0	16	9.0	68	39.3	0	0.0	44	25.4	0	0.0	17	9.8	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	147	84.4
	(7/12 - 18)		F	0	0.0	0	0.0	1	0.8	0	0.0	3	1.6	0	0.0	21	12.3	0	0.0	1	0.8	0	0.0	0	0.0	0	0.0	27	15.6
			Subtotal	0	0.0	16	9.0	70	40.1	0	0.0	47	27.0	0	0.0	38	22.1	0	0.0	3	1.6	0	0.0	0	0.0	0	0.0	174	100.0
	7/19 - 23	102	M	0	0.0	27	10.8	79	31.4	0	0.0	69	27.5	22	8.8	20	7.8	5	2.0	0	0.0	0	0.0	0	0.0	0	0.0	222	88.2
	(7/19 - 25)		F	0	0.0	0	0.0	0	0.0	0	0.0	5	2.0	0	0.0	25	9.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	30	11.8
			Subtotal	0	0.0	27	10.8	79	31.4	0	0.0	74	29.5	22	8.8	44	17.6	5	2.0	0	0.0	0	0.0	0	0.0	0	0.0	252	100.0
	7/24, 27-29	46	M	0	0.0	13	13.6	31	31.6	0	0.0	22	22.7	2	2.3	9	9.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	77	79.5
	8/4-6, 11, 14, 25		F	0	0.0	0	0.0	0	0.0	0	0.0	4	4.5	0	0.0	15	15.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	20	20.5
	(7/26 - 8/31)		Subtotal	0	0.0	13	13.6	31	31.6	0	0.0	26	27.2	2	2.3	24	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	97	100.0
	Season	538	M	0	0.0	93	8.8	400	38.0	0	0.0	315	30.0	24	2.3	56	5.3	5	0.5	3	0.2	0	0.0	0	0.0	0	0.0	896	85.3
			F	0	0.0	0	0.0	8	0.8	0	0.0	27	2.6	0	0.0	106	10.0	0	0.0	13	1.3	0	0.0	0	0.0	0	0.0	155	14.7
			Total	0	0.0	93	8.8	408	38.8	0	0.0	343	32.6	24	2.3	162	15.4	5	0.5	16	1.5	0	0.0	0	0.0	0	0.0	1,051	100.0
1993	6/22, 25, 27-30;	138	M	0	0.0	0	0.0	77	39.4	0	0.0	56	28.5	0	0.0	21	10.9	6	2.9	0	0.0	1	0.7	0	0.0	0	0.0	162	82.5
	7/1, 3		F	0	0.0	0	0.0	7	3.6	0	0.0	1	0.7	0	0.0	26	13.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34	17.5
	(6/17 - 7/3)		Subtotal	0	0.0	0	0.0	84	43.0	0	0.0	57	29.2	0	0.0	47	24.0	6	2.9	0	0.0	1	0.7	0	0.0	0	0.0	196	100.0
	7/5 - 6	134	M	0	0.0	6	0.7	368	43.3	0	0.0	291	34.3	13	1.5	44	5.2	13	1.5	6	0.7	6	0.7	0	0.0	0	0.0	748	88.1
	(7/4 - 10)		F	0	0.0	0	0.0	0	0.0	0	0.0	19	2.2	0	0.0	82	9.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	101	11.9
			Subtotal	0	0.0	6	0.7	368	43.3	0	0.0	310	36.5	13	1.5	127	14.9	13	1.5	6	0.7	6	0.7	0	0.0	0	0.0	849	100.0

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Table 5. Age and sex of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1993 (cont.)	7/11 - 12 (7/11 - 17)	134	M	0	0.0	10	1.5	418	62.7	0	0.0	129	19.4	0	0.0	30	4.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	587	88.1
			F	0	0.0	0	0.0	5	0.7	0	0.0	15	2.2	0	0.0	50	7.5	0	0.0	10	1.5	0	0.0	0	0.0	0	0.0	79	11.9
			Subtotal	0	0.0	10	1.5	422	63.4	0	0.0	144	21.6	0	0.0	80	12.0	0	0.0	10	1.5	0	0.0	0	0.0	0	0.0	666	100.0
	7/18 - 22 (7/18 - 24)	134	M	0	0.0	10	3.0	183	56.0	0	0.0	71	21.6	0	0.0	15	4.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	278	85.1
			F	0	0.0	0	0.0	0	0.0	0	0.0	5	1.5	0	0.0	44	13.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	49	14.9
			Subtotal	0	0.0	10	3.0	183	56.0	0	0.0	76	23.1	0	0.0	59	17.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	327	100.0
	7/25-30; 8/1, 4, 7 (7/27 - 8/16)	79	M	0	0.0	0	0.0	96	53.2	0	0.0	32	17.7	0	0.0	9	5.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	137	75.9
			F	0	0.0	0	0.0	0	0.0	0	0.0	7	3.8	0	0.0	32	17.7	0	0.0	5	2.5	0	0.0	0	0.0	0	0.0	43	24.1
			Subtotal	0	0.0	0	0.0	96	53.2	0	0.0	39	21.5	0	0.0	41	22.8	0	0.0	5	2.5	0	0.0	0	0.0	0	0.0	180	100.0
	Season	819	M	0	0.0	26	1.2	1,141	51.5	0	0.0	579	26.1	13	0.6	119	5.4	18	0.8	6	0.3	7	0.3	0	0.0	0	0.0	1,911	86.2
			F	0	0.0	0	0.0	12	0.5	0	0.0	46	2.1	0	0.0	234	10.5	0	0.0	14	0.7	0	0.0	0	0.0	0	0.0	307	13.8
			Total	0	0.0	26	1.2	1,153	52.0	0	0.0	625	28.2	13	0.6	353	15.9	18	0.8	20	0.9	7	0.3	0	0.0	0	0.0	2,218	100.0
1994	6/30 - 7/7 (6/29 - 7/9)	115	M	0	0.0	7	0.9	86	10.4	0	0.0	452	54.8	0	0.0	43	5.2	43	5.2	0	0.0	21	2.6	0	0.0	0	0.0	653	79.1
			F	0	0.0	0	0.0	43	5.2	0	0.0	50	6.1	0	0.0	64	7.8	0	0.0	7	0.9	7	0.9	0	0.0	0	0.0	172	20.9
			Subtotal	0	0.0	7	0.9	129	15.6	0	0.0	502	60.9	0	0.0	107	13.0	43	5.2	7	0.9	29	3.5	0	0.0	0	0.0	825	100.0
	7/10 - 12 (7/10 - 16)	135	M	0	0.0	0	0.0	206	20.0	7	0.7	503	48.9	15	1.5	92	8.9	38	3.7	0	0.0	15	1.5	0	0.0	0	0.0	877	85.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	45	4.4	0	0.0	76	7.4	0	0.0	0	0.0	31	3.0	0	0.0	0	0.0	152	14.8
			Subtotal	0	0.0	0	0.0	206	20.0	7	0.7	548	53.3	15	1.5	168	16.3	38	3.7	0	0.0	46	4.5	0	0.0	0	0.0	1,029	100.0
	7/17 - 18 (7/17 - 23)	135	M	5	0.7	12	1.5	151	19.3	5	0.7	284	36.3	23	3.0	75	9.6	17	2.2	0	0.0	0	0.0	0	0.0	0	0.0	573	73.3
			F	0	0.0	0	0.0	12	1.5	0	0.0	87	11.1	0	0.0	99	12.6	0	0.0	5	0.7	5	0.7	0	0.0	0	0.0	209	26.7
			Subtotal	5	0.7	12	1.5	163	20.8	5	0.7	371	47.4	23	3.0	174	22.2	17	2.2	5	0.7	5	0.7	0	0.0	0	0.0	782	100.0
	7/24-26; 8/1, 8-9 (7/24 - 9/11)	90	M	0	0.0	15	5.6	45	16.7	0	0.0	60	22.2	0	0.0	9	3.3	3	1.1	0	0.0	0	0.0	0	0.0	0	0.0	132	48.9
			F	0	0.0	0	0.0	3	1.1	0	0.0	57	21.1	0	0.0	63	23.3	6	2.2	3	1.1	6	2.2	0	0.0	0	0.0	137	51.1
			Subtotal	0	0.0	15	5.6	48	17.8	0	0.0	116	43.3	0	0.0	72	26.6	9	3.3	3	1.1	6	2.2	0	0.0	0	0.0	269	100.0
	Season	475	M	5	0.2	34	1.2	487	16.8	13	0.4	1,299	44.7	39	1.3	218	7.5	101	3.5	0	0.0	37	1.3	0	0.0	0	0.0	2,234	76.9
			F	0	0.0	0	0.0	58	2.0	0	0.0	239	8.2	0	0.0	302	10.4	6	0.2	16	0.5	50	1.7	0	0.0	0	0.0	671	23.1
			Total	5	0.2	34	1.2	545	18.8	13	0.4	1,538	52.9	39	1.3	520	17.9	107	3.7	16	0.5	87	3.0	0	0.0	0	0.0	2,905	100.0
	Grand Total [c]	1,978	M	5	0.1	153	2.2	2,136	31.1	13	0.2	2,320	33.8	146	2.1	501	7.3	168	2.4	26	0.4	59	0.9	0	0.0	7	0.1	5,536	80.6
			F	0	0.0	0	0.0	81	1.2	0	0.0	331	4.8	1	0.0	765	11.1	11	0.2	83	1.2	57	0.8	2	0.0	2	0.0	1,335	19.4
			Total	5	0.1	153	2.2	2,217	32.3	13	0.2	2,651	38.6	147	2.1	1,266	18.4	179	2.6	110	1.6	115	1.7	2	0.0	9	0.1	6,871	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

c The number of fish in the "Grand Total" are the sum of the "Season" totals; percentages are derived from those sums.Years excluded are 1987, 1989, and 1992 - 1994.

Table 6. Mean length (mm) of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1991	6/23-24, 26-7/6 (6/23 - 7/6)	M	Mean Length			479		642	524	766	583	890	580		705
			Std. Error			22		22	17	29	30	-	-		-
			Range			370- 550		475- 795	450- 590	650- 940	475- 730	890- 890	580- 580		705- 705
			Sample Size	0	0	8	0	24	9	10	9	1	1	0	1
		F	Mean Length			517		761	545	861	813	883	900		910
			Std. Error			18		20	-	17	8	17	60		-
			Range			490- 550		715- 810	545- 545	720- 940	805- 820	855- 915	840- 960		910- 910
			Sample Size	0	0	3	0	4	1	12	2	3	2	0	1
	7/7 - 9 (7/7 - 13)	M	Mean Length			503		611	535	771	578	793	833		820
			Std. Error			15		34	13	32	62	73	23		-
			Range			410- 585		420- 785	495- 590	600- 935	440- 735	720- 865	810- 855		820- 820
			Sample Size	0	0	13	0	15	8	13	5	2	2	0	1
		F	Mean Length					800		876		870			
			Std. Error					-		15		55			
			Range					800- 800		815- 940		775- 965			
			Sample Size	0	0	0	0	1	0	9	0	3	0	0	0
	7/14 - 20 (7/14 - 20)	M	Mean Length			541		645	526	829	682	1033	790		
			Std. Error			11		39	14	28	46	12	0		
			Range			440- 625		435- 850	420- 605	650- 995	525- 815	1015- 1055	790- 790		
			Sample Size	0	0	22	0	11	14	16	6	3	1	0	0
		F	Mean Length					810		865	845	883	900		910
			Std. Error					3		9	-	16	20		-
			Range					805- 815		760- 965	845- 845	795- 970	880- 920		910- 910
			Sample Size	0	0	0	0	4	0	34	1	12	2	0	1
	7/21 - 29; 8/2 3, 12 (7/21 - 8/21)	M	Mean Length			485		720	630	791		898	885		
			Std. Error			21		25	-	21		28	-		
			Range			450- 545		630- 790	630- 630	710- 845		870- 925	885- 885		
			Sample Size	0	0	4	0	6	1	7	0	2	1	0	0
		F	Mean Length					802		876	755	909	860	905	
			Std. Error					16		14	-	21	20	30	
			Range					770- 825		755- 1000	755- 755	850- 870	840- 880	875- 935	
			Sample Size	0	0	0	0	3	0	21	1	6	2	2	0
	Season	M	Mean Length			508		627	533	781	594	858	813		800
			Range			370 - 625		420- 850	420- 630	600- 995	440- 815	720- 1055	580- 885		705- 820
			Sample Size	0	0	47	0	56	32	46	20	8	5	0	2
		F	Mean Length			517		793	545	871	805	882	886	905	910
			Range			490- 550		715- 825	545- 545	720- 1000	755- 845	775- 970	840- 960	875- 935	910- 910
			Sample Size	0	0	3	0	12	1	76	4	24	6	2	2

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Table 6. Mean length (mm) of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 5).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1992	6/26, 28 - 30; 7/1 - 4 (6/26 - 7/4)	M	Mean Length		396	558		687		776		990			
			Std. Error		7	11		7		40		-			
			Range		385- 410	420- 750		579- 829		667- 920		990- 990			
			Sample Size	0	3	29	0	58	0	7	0	1	0	0	0
		F	Mean Length			550		669		887		956			
			Std. Error			14		10		11		12			
			Range			489- 587		657- 724		800- 990		938- 978			
			Sample Size	0	0	6	0	6	0	19	0	3	0	0	0
	7/5 - 9 (7/5 - 11)	M	Mean Length		391	544		660		853					
			Std. Error		8	7		8		-					
			Range		349- 446	400- 685		547- 762		853- 853					
			Sample Size	0	12	68	0	41	0	1	0	0	0	0	0
		F	Mean Length					807		826		923			
			Std Error					9		31		32			
			Range					791- 821		621- 895		864- 792			
			Sample Size	0	0	0	0	3	0	8	0	3	0	0	0
	7/12 - 16, 18 (7/12 - 18)	M	Mean Length		401	535		685		864		802			
			Std. Error		6	9		10		28		-			
			Range		374- 429	372- 663		492- 766		749- 995		802- 802			
			Sample Size	0	11	48	0	31	0	12	0	1	0	0	0
		F	Mean Length			519		793		870		912			
			Std. Error			0		16		9		-			
			Range			519- 519		777- 808		793- 942		912- 912			
			Sample Size	0	0	1	0	2	0	15	0	1	0	0	0
	7/19 - 23 (7/19 - 25)	M	Mean Length		402	530		698	507	824	638				
			Std. Error		5	14		17	22	40	53				
			Range		370- 425	400- 775		520- 905	400- 600	610- 960	585- 690				
			Sample Size	0	11	32	0	28	9	8	2	0	0	0	0
		F	Mean Length					798		888					
			Std. Error					8		15					
			Range					790- 805		810- 955					
			Sample Size	0	0	0	0	2	0	10	0	0	0	0	0
	7/24 27-29 8/4-6, 11, 14, 25 (7/26 - 8/31)	M	Mean Length		382	503		690	630	893					
			Std. Error		11	16		24	-	72					
			Range		355- 425	410- 610		550- 805	630- 630	705- 1055					
			Sample Size	0	6	14	0	10	1	4	0	0	0	0	0
		F	Mean Length					845		894					
			Std. Error					30		16					
			Range					815- 875		845- 960					
			Sample Size	0	0	0	0	2	0	7	0	0	0	0	0

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Table 6. Mean length (mm) of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 3 of 5).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1992 (cont.)	Season	M	Mean Length		395	538		680	518	842	638	889			
			Range		349- 466	372- 775		492- 905	400- 630	610- 1055	585- 690	802- 990			
			Sample Size	0	43	191	0	168	10	32	2	2	0	0	0
		F	Mean Length			545		775		872		930			
			Range			489- 587		657- 875		621- 990		864- 978			
			Sample Size	0	0	7	0	15	0	59	0	7	0	0	0
1993	6/22, 25, 27-30, 7/1, 3 (6/17 - 7/3)	M	Mean Length			537		683		779	666		620		
			Std. Error			8		12		13	17		-		
			Range			415- 690		565-895		730-920	640- 715		620- 620		
			Sample Size	0	0	54	0	39	0	15	4	0	1	0	0
		F	Mean Length			554		795		883					
			Std. Error			5		-		12					
			Range			540- 565		795- 795		785- 970					
			Sample Size	0	0	5	0	1	0	18	0	0	0	0	0
	7/5 - 6 (7/4 - 10)	M	Mean Length		415	540		677	585	762	755	725	795		
			Std. Error		-	6		12	30	36	30	-	-		
			Range		415- 415	425- 635		500- 845	555- 615	665- 915	725- 785	725- 725	795- 795		
			Sample Size	0	1	58	0	46	2	7	2	1	1	0	0
		F	Mean Length					825		856					
			Std. Error					21		12					
			Range					795- 865		775- 930					
			Sample Size	0	0	0	0	3	0	13	0	0	0	0	0
	7/11 - 12 (7/11 - 17)	M	Mean Length		398	528		680		873					
			Std. Error		3	6		12		36					
			Range		395- 400	395- 660		490- 795		745- 970					
			Sample Size	0	2	84	0	26	0	6	0	0	0	0	0
		F	Mean Length			475		800		862		895			
			Std. Error			-		16		18		80			
			Range			475- 475		775- 830		730- 940		815- 975			
			Sample Size	0	0	1	0	3	0	10	0	2	0	0	0
	7/18 - 22 (7/18 - 24)	M	Mean Length		378	542		649		811					
			Std. Error		20	8		17		43					
			Range		330- 410	335- 660		405- 760		695- 945					
			Sample Size	0	4	75	0	29	0	6	0	0	0	0	0
		F	Mean Length					825		869					
			Std. Error					35		8					
			Range					790- 860		805- 930					
			Sample Size	0	0	0	0	2	0	18	0	0	0	0	0

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Table 6. Mean length (mm) of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 4 of 5).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1993 (cont.)	7/25-30; 8/1, 4, 7 (7/27 - 8/18)	M	Mean Length			542		692		914					
			Std. Error			10		28		30					
			Range			405- 640		465- 840		835- 960					
			Sample Size	0	0	42	0	14	0	4	0	0	0	0	0
		F	Mean Length					805		877		935			
			Std. Error					12		19		25			
			Range					785- 825		735- 1010		910- 960			
			Sample Size	0	0	0	0	3	0	14	0	2	0	0	0
	Season	M	Mean Length		394	536		675	585	811	728	725	762		
			Range		330- 415	335- 690		405- 895	555- 615	665- 970	640- 785	725- 795	620- 975		
			Sample Size	0 0	7 0	313 0	0 0	154 0	2 0	38 0	6 0	1 0	2 0	0 0	0
		F	Mean Length			523		813		866		907			
			Range			475- 565		775- 865		730- 1010		815- 975			
			Sample Size	0 0	0 0	6 0	0 0	12 0	0 0	73 0	0 0	4 0	0 0	0 0	0
1994	6/30 - 7/7 (6/29 - 7/9)	M	Mean Length		535	573		705		818	649		767		
			Std. Error		-	14		9		62	15		47		
			Range		535- 535	515- 670		545- 1010		605- 1015	600- 685		705- 860		
			Sample Size	0	1	12	0	63	0	6	6	0	3	0	0
		F	Mean Length			555		708		840		770	905		
			Std. Error			21		30		24		-	-		
			Range			475- 630		605- 810		740- 995		770- 770	905- 905		
			Sample Size	0	0	6	0	7	0	9	0	1	1	0	0
	7/10 - 12 (7/10 - 16)	M	Mean Length			562	460	699	570	859	766		885		
			Std. Error			11	-	8	55	24	29		35		
			Range			480- 725	460- 460	565- 865	515- 625	# 735- 1045	696- 870		850- 920		
			Sample Size	0	0	27	1	66	2	12	5	0	2	0	0
		F	Mean Length					783		877			825		
			Std. Error					21		17			19		
			Range					685- 835		800-945			795- 880		
			Sample Size	0	0	0	0	6	0	10	0	0	4	0	0
	7/17 - 18 (7/17 - 23)	M	Mean Length	535	403	584	480	705	576	790	725				
			Std. Error	-	48	24	-	13	27	28	44				
			Range	535- 535	355- 450	445- 920	480- 480	515- 870	515- 646	560- 995	640- 790				
			Sample Size	1	2	26	1	49	4	13	3	0	0	0	0
		F	Mean Length			543		794		854		940	850		
			Std. Error			8		8		15		-	-		
			Range			535- 550		745- 865		745- 950		940- 940	850- 850		
			Sample Size	0	0	2	0	15	0	17	0	1	1	0	0

- continued -

Table 6. Mean length (mm) of chinook salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 5 of 5).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1994 (cont.)	7/24-26; 8/1, 8-9 (7/24 - 9/11)	M	Mean Length		374	535		739		832	845				
			Std. Error		17	27		21		62	-				
			Range		340- 430	440- 830		495- 835		770- 955	845- 845				
			Sample Size	0	5	15	0	20	0	3	1	0	0	0	0
		F	Mean Length			785		808		872	820	910	828		
			Std. Error			-		13		11	15	-	23		
			Range			785- 785		615- 900		775 -940	805- 835	910- 910	805- 850		
			Sample Size	0	0	1	0	19	0	21	2	1	2	0	0
	Season	M	Mean Length	535	419	568	469	704	574	828	712		816		
			Range	535- 535	340- 535	440- 920	460- 480	495- 1010	515- 645	560- 1045	600- 870		705- 920		
			Sample Size	1	8	80	2	198	6	34	15	0	5	0	0
		F	Mean Length			564		777		860	820	855	840		
			Range			475- 785		605- 900		740- 995	805- 835	770- 940	795- 905		
			Sample Size	0	0	9	0	47	0	57	2	3	8	0	0
	Grand Total [b]	M	Mean Length	535	402	537	469	672	553	815	668	824	797		800
			Range	535- 535	330- 535	335- 920	460- 480	405- 1010	400- 645	560- 1055	440- 870	802- 1055	620- 920		705- 820
			Sample Size	1	58	631	2	576	50	150	43	11	12	0	2
		F	Mean Length			537		790	545	867	813	894	863	905	910
			Range			425- 785		605- 900	545- 545	621- 1010	755- 845	815- 978	795- 905	875- 935	910- 910
			Sample Size	0	0	25	0	86	1	265	6	38	14	2	2

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 7. Age and sex of chinook salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1992	6/24 - 27	65	M	0	0.0	14	9.2	35	23.1	0	0.0	28	18.5	0	0.0	19	12.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	95	63.1
	(6/21 - 27)		F	0	0.0	0	0.0	26	16.9	0	0.0	23	15.4	0	0.0	7	4.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	56	36.9
			Subtotal	0	0.0	14	9.2	60	40.0	0	0.0	51	33.9	0	0.0	26	16.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	151	100.0
	6/28 - 30	133	M	0	0.0	0	0.0	902	35.3	0	0.0	731	28.6	0	0.0	383	15.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,016	78.9
	(6/28 - 7/4)		F	0	0.0	0	0.0	77	3.0	0	0.0	20	0.8	0	0.0	442	17.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	539	21.1
			Subtotal	0	0.0	0	0.0	979	38.3	0	0.0	751	29.4	0	0.0	825	32.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,555	100.0
	7/5, 6	135	M	0	0.0	241	7.4	1,469	45.2	0	0.0	673	20.7	0	0.0	169	5.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,552	78.5
	(7/5 - 11)		F	0	0.0	0	0.0	23	0.7	0	0.0	23	0.7	0	0.0	601	18.5	0	0.0	49	1.5	0	0.0	0	0.0	0	0.0	699	21.5
			Subtotal	0	0.0	241	7.4	1,492	45.9	0	0.0	696	21.4	0	0.0	770	23.7	0	0.0	49	1.5	0	0.0	0	0.0	0	0.0	3,251	100.0
	7/13 - 15	131	M	0	0.0	105	5.3	529	26.7	0	0.0	499	25.2	16	0.8	166	8.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,315	66.4
	(7/12 - 18)		F	0	0.0	0	0.0	16	0.8	0	0.0	16	0.8	0	0.0	590	29.8	0	0.0	46	2.3	0	0.0	0	0.0	0	0.0	666	33.6
			Subtotal	0	0.0	105	5.3	545	27.5	0	0.0	515	26.0	16	0.8	757	38.2	0	0.0	46	2.3	0	0.0	0	0.0	0	0.0	1,981	100.0
	7/19 - 21	126	M	0	0.0	96	10.3	273	29.4	0	0.0	155	16.7	7	0.8	88	9.5	7	0.8	7	0.8	0	0.0	0	0.0	0	0.0	635	68.3
	(7/19 - 25)		F	0	0.0	0	0.0	0	0.0	0	0.0	15	1.6	0	0.0	259	27.8	0	0.0	15	1.6	7	0.8	0	0.0	0	0.0	295	31.7
			Subtotal	0	0.0	96	10.3	273	29.4	0	0.0	170	18.3	7	0.8	347	37.3	7	0.8	22	2.4	7	0.8	0	0.0	0	0.0	930	100.0
	7/27 - 31	131	M	0	0.0	116	26.0	123	27.5	0	0.0	65	14.5	10	2.3	24	5.3	4	0.8	0	0.0	7	1.5	0	0.0	0	0.0	349	77.9
	(7/26 - 8/1)		F	0	0.0	0	0.0	4	0.8	0	0.0	17	3.8	0	0.0	75	16.8	0	0.0	4	0.8	0	0.0	0	0.0	0	0.0	99	22.1
			Subtotal	0	0.0	116	26.0	127	28.3	0	0.0	82	18.3	10	2.3	99	22.1	4	0.8	4	0.8	7	1.5	0	0.0	0	0.0	448	100.0
	8/3-6, 10, 11,	38	M	0	0.0	66	18.4	160	44.7	0	0.0	38	10.5	9	2.6	19	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	293	81.6
	14 - 15, 17		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	66	18.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	66	18.4
	(8/2 - 9/12)		Subtotal	0	0.0	66	18.4	160	44.7	0	0.0	38	10.5	9	2.6	85	23.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	359	100.0
	Season	759	M	0	0.0	638	6.6	3,492	36.1	0	0.0	2,189	22.6	43	0.4	868	9.0	11	0.1	7	0.1	7	0.1	0	0.0	0	0.0	7,256	75.0
			F	0	0.0	0	0.0	144	1.5	0	0.0	114	1.2	0	0.0	2,041	21.1	0	0.0	113	1.2	7	0.1	0	0.0	0	0.0	2,419	25.0
			Total	0	0.0	638	6.6	3,637	37.6	0	0.0	2,303	23.8	43	0.4	2,909	30.1	11	0.1	120	1.2	14	0.1	0	0.0	0	0.0	9,675	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 8. Mean length (mm) of chinook salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1992	6/24 - 27	M	Mean Length		370	515		667		785					
	(6/21 - 27)		Std. Error		11	15		12		33					
			Range		325- 395	435- 615		610-745		700- 965					
			Sample Size	0	6	15	0	12	0	8	0	0	0	0	0
		F	Mean Length			573		649		875					
			Std. Error			14		12		20					
			Range			470- 605		585- 705		840- 910					
			Sample Size	0	0	11	0	10	0	3	0	0	0	0	0
	6/28 - 30	M	Mean Length			525		680		836					
	(6/28 - 7/4)		Std. Error			8		10		15					
			Range			395- 640		520- 810		695- 915					
			Sample Size	0	0	47	0	38	0	20	0	0	0	0	0
		F	Mean Length			490		815		867					
			Std. Error			17		-		11					
			Range			460- 535		815- 815		775- 975					
			Sample Size	0	0	4	0	1	0	23	0	0	0	0	0
	7/5, 6	M	Mean Length		372	521		652		793					
	(7/5 - 11)		Std. Error		4	8		14		48					
			Range		355- 395	365- 650		380- 765		565- 960					
			Sample Size	0	10	61	0	28	0	7	0	0	0	0	0
		F	Mean Length			595		700		882		940			
			Std. Error			-		-		7		-			
			Range			595- 595		700- 700		810- 950		940- 940			
			Sample Size	0	0	1	0	1	0	25	0	2	0	0	0
	7/13 - 15	M	Mean Length		365	510		695	575	817					
	(7/12 - 18)		Std. Error		7	10		14	-	26					
			Range		335- 380	400- 635		525- 865	575- 575	690- 935					
			Sample Size	0	7	35	0	33	1	11	0	0	0	0	0
		F	Mean Length			920		830		878		865			
			Std. Error			-		-		6		29			
			Range			920- 920		830- 830		810- 955		820- 920			
			Sample Size	0	0	1	0	1	0	39	0	3	0	0	0

- continued -

Table 8. Mean length (mm) of chinook salmon at the Kwethluk River weir based on escapement samples collected with a fish trap (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1992 (cont.)	7/19 - 21 (7/19 - 25)	M	Mean Length		378	499		721	535	813	690	920			
			Std. Error		6	10		19	-	42	-	-			
			Range		350- 415	385- 635		545- 870	535- 535	550- 985	690- 690	920- 920			
			Sample Size	0	13	37	0	21	1	12	1	1	0	0	0
		F	Mean Length					858		866		883	850		
			Std. Error					23		7		3	-		
			Range					835-880		775- 935		880- 885	850- 850		
			Sample Size	0	0	0	0	2	0	35	0	2	1	0	0
	7/27 - 31 (7/26 - 8/1)	M	Mean Length		366	520		668	507	927	400		700		
			Std. Error		7	11		17	9	41	-		45		
			Range		146- 405	385- 650		550- 845	494- 525	15- 1050	400- 400		655- 745		
			Sample Size	0	34	36	0	19	3	7	1	0	2	0	0
		F	Mean Length			455		741		868		895			
			Std. Error			-		53		10		-			
			Range			455-455		590- 890		780- 970		895- 895			
			Sample Size	0	0	1	0	5	0	22	0	1	0	0	0
	8/3-6, 10, 11, 14 - 15, 17 (8/2 - 9/12)	M	Mean Length		386	522		715	456	833					
			Std. Error		5	18		32	9	83					
			Range		370- 400	410- 670		640- 755	465- 465	750- 915					
			Sample Size	0	7	17	0	4	1	2	0	0	0	0	0
		F	Mean Length							868					
			Std. Error							14					
			Range							815- 920					
			Sample Size	0	0	0	0	0	0	7	0	0	0	0	0
	Season	M	Mean Length		372	518		658	526	823	596	920	700		
			Range		146- 415	365- 670		380- 870	465- 575	50- 1050	400- 690	920- 920	655- 745		
			Sample Size	0	77	248	0	155	6	67	2	1	2	0	0
		F	Mean Length			568		755	0	875		901	850		
			Range			455- 920		585-890	0-0	775- 975		820- 940	850- 850		
			Sample Size	0	0	18	0	20	0	154	0	8	1	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 9. Age and sex of chinook salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1997	6/22, 24- 26,	40	M	0	0.0	178	2.5	3,373	47.5	0	0.0	178	2.5	0	0.0	532	7.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,261	60.0
	28, 30, 7/1		F	0	0.0	0	0.0	533	7.5	0	0.0	355	5.0	0	0.0	1,953	27.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,840	40.0
	(6/11 - 7/3)		Subtotal	0	0.0	178	2.5	3,906	55.0	0	0.0	533	7.5	0	0.0	2,485	35.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,101	100.0
	7/5- 6, 8- 9	25	M	0	0.0	177	4.0	1,771	40.0	0	0.0	354	8.0	0	0.0	709	16.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,011	68.0
	(7/4 - 11)		F	0	0.0	0	0.0	709	16.0	0	0.0	0	0.0	0	0.0	708	16.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,417	32.0
			Subtotal	0	0.0	177	4.0	2,480	56.0	0	0.0	354	8.0	0	0.0	1,417	32.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,428	100.0
	7/14- 15, 17,	20	M	0	0.0	0	0.0	1,043	20.0	0	0.0	521	10.0	0	0.0	521	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,086	40.0
	21- 23, 28, 30- 31		F	0	0.0	0	0.0	521	10.0	0	0.0	0	0.0	0	0.0	2,607	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,128	60.0
	(7/12 - 8/18)		Subtotal	0	0.0	0	0.0	1,564	30.0	0	0.0	521	10.0	0	0.0	3,128	60.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,214	100.0
	Season	85	M	0	0.0	355	2.1	6,187	37.0	0	0.0	1,053	6.3	0	0.0	1,763	10.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,357	55.9
			F	0	0.0	0	0.0	1,762	10.5	0	0.0	355	2.1	0	0.0	5,268	31.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,386	44.1
			Total	0	0.0	355	2.1	7,949	47.5	0	0.0	1,408	8.4	0	0.0	7,031	42.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16,743	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 10. Mean length (mm) of chinook salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997	6/22, 24- 26, 28, 30, 7/1 (6/11 - 7/3)	M	Mean Length		465	542		595		786					
			Std. Error		-	11		-		81					
			Range		465- 465	495- 675		595- 595		625- 885					
			Sample Size	0	1	19	0	1	0	3	0	0	0	0	0
		F	Mean Length			621		770		815					
			Std. Error			16		110		21					
			Range			590- 640		660- 880		675- 896					
			Sample Size	0	0	3	0	2	0	11	0	0	0	0	0
	7/5- 6, 8- 9 (7/4 - 11)	M	Mean Length		350	517		733		850					
			Std. Error		-	14		8		13					
			Range		350- 350	463- 595		725- 740		815- 870					
			Sample Size	0	1	10	0	2	0	4	0	0	0	0	0
		F	Mean Length			528				869					
			Std. Error			19				21					
			Range			480- 565				817- 904					
			Sample Size	0	0	4	0	0	0	4	0	0	0	0	0
	7/14- 15, 17, 21- 23, 28, 30- 31 (7/12 - 8/18)	M	Mean Length			548		753		903					
			Std. Error			38		38		23					
			Range			445- 628		715- 790		880- 925					
			Sample Size	0	0	4	0	2	0	2	0	0	0	0	0
		F	Mean Length			570				887					
			Std. Error			30				19					
			Range			540- 600				805-1020					
			Sample Size	0	0	2	0	0	0	10	0	0	0	0	0
	Season	M	Mean Length		408	536		719		846					
			Range		350- 465	445- 675		595- 790		625- 925					
			Sample Size	0	2	33	0	5	0	9	0	0	0	0	0
		F	Mean Length			569		770		958					
			Range			480- 640		660- 880		675-1020					
			Sample Size	0	0	9	0	2	0	25	0	0	0	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 11. Age and sex of chinook salmon from the Kanektok River based on carcass and sport caught samples. a

Year	Sample Dates / Sample Type	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1991	6/21 - 7/7	53	M		0.0		0.0		9.4		0.0		20.8		0.0		17.0		0.0		1.9		0.0		0.0		0.0		49.1
	Sport		F		0.0		0.0		1.9		0.0		7.5		0.0		39.6		0.0		1.9		0.0		0.0		0.0		50.9
			Total		0.0		0.0		11.3		0.0		28.3		0.0		56.6		0.0		3.8		0.0		0.0		0.0		100.0
1992	7/30 - 8/21	208	M		0.0		1.0		5.3		0.0		15.4		2.9		35.1		1.0		0.5		0.5		0.0		0.0		61.5
	Carcass		F		0.0		0.0		1.0		0.0		4.8		1.0		28.4		0.5		1.9		1.0		0.0		0.0		38.5
			Total		0.0		1.0		6.3		0.0		20.2		3.8		63.5		1.4		2.4		1.4		0.0		0.0		100.0
1993	7/29 - 8/10	230	M		0.0		0.0		4.3		0.0		23.0		0.0		24.3		0.4		2.6		0.0		0.0		0.0		54.8
	Carcass		F		0.0		0.0		1.7		0.0		10.9		0.4		27.8		0.0		3.9		0.4		0.0		0.0		45.2
			Total		0.0		0.0		6.1		0.0		33.9		0.4		52.2		0.4		6.5		0.4		0.0		0.0		100.0
1993		82	M		0.0		2.4		17.1		0.0		8.5		0.0		8.5		0.0		1.2		1.2		0.0		0.0		39.0
	Sport		F		0.0		0.0		6.1		0.0		14.6		0.0		28.0		0.0		7.3		3.7		0.0		1.2		61.0
			Total		0.0		2.4		23.2		0.0		23.2		0.0		36.6		0.0		8.5		4.9		0.0		1.2		100.0
1994	8/8 - 8/16	232	M		0.0		0.0		6.9		0.4		33.2		0.4		10.8		2.2		0.0		3.9		0.0		0.0		57.8
	Carcass		F		0.0		0.0		0.9		0.4		10.3		0.0		19.0		2.6		1.3		7.8		0.0		0.0		42.2
			Total		0.0		0.0		7.8		0.9		43.5		0.4		29.7		4.7		1.3		11.6		0.0		0.0		100.0
1994	6/19 - 7/19	128	M		0.0		0.0		3.9		0.0		30.5		0.0		21.1		0.0		2.3		0.0		0.0		0.0		57.8
	Sport		F		0.0		0.0		0.0		0.0		5.5		0.0		34.4		0.0		2.3		0.0		0.0		0.0		42.2
			Total		0.0		0.0		3.9		0.0		36.0		0.0		55.5		0.0		4.6		0.0		0.0		0.0		100.0
1995	7/28 - 8/15	150	M		0.0		0.0		2.5		0.0		5.0		0.0		39.7		0.0		0.0		0.0		0.0		0.0		47.1
	Carcass		F		0.0		0.0		1.7		0.0		2.5		0.0		44.6		0.0		2.5		1.7		0.0		0.0		52.9
			Total		0.0		0.0		4.2		0.0		7.5		0.0		84.2		0.0		2.5		1.7		0.0		0.0		100.0
1996	7/28 - 8/12	129	M		0.0		0.0		4.7		0.0		25.6		0.0		14.0		1.6		7.0		0.8		0.0		0.0		53.5
	Carcass		F		0.0		0.0		0.0		0.0		3.1		0.0		30.2		0.0		11.6		1.6		0.0		0.0		46.5
			Total		0.0		0.0		4.7		0.0		28.7		0.0		44.2		1.6		18.6		2.3		0.0		0.0		100.0

a Carcass samples were collected from gravel bars during river patrols by U.S. Fish and Wildlife Service personel.
Sport samples were collected as part of the Kanetktok River sport fishery creel survey, conducted by ADF&G, Sport Fish Division.
Escapement data from MacDonald (1996).
Sport fish data from unpublished memorandum.

Table 12. Mean length (mm) of chinook salmon from the Kanektok River based on carcass and sport caught samples. [a]

Year	Sample Dates / Sample Type	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1991	6/21 - 7/7	M	Mean Length			493		671		783		949			
	Sport		Std. Error			16		32		67		-			
			Range									949- 949			
			Sample Size	0	0	5	0	11	0	9	0	1	0	0	0
		F	Mean Length			480		830		830		822			
			Std. Error			-		36		21		-			
			Range			480- 480						822- 822			
			Sample Size	0	0	1	0	4	0	21	0	1	0	0	0
1992	7/30 - 8/21	M	Mean Length			611		772	675	892	800	939	942		
	Carcass		Std. Error			32		16	52	9	80	-	-		
			Range			505- 881		620- 960	532- 913	610- 1021	720- 881	939- 939	942- 942		
			Sample Size	0	0	11	0	32	6	73	2	1	1	0	0
		F	Mean Length			600		851	529	852	845	902	859		
			Std. Error			48		16	46	8	-	12	16		
			Range			553- 648		767- 922	483- 575	602- 962	845- 845	876- 935	843- 875		
			Sample Size	0	0	2	0	10	2	59	1	4	2	0	0
1993	7/29 - 8/10	M	Mean Length			605		771		888	730	987			
	Carcass		Std. Error			36		11		10	-	35			
			Range			500- 860		640- 970		670- 1050	730- 730	880- 1100			
			Sample Size	0	0	10	0	53	0	56	1	6	0	0	0
		F	Mean Length			593		758	642	873		904	825		
			Std. Error			58		15	-	6		18	-		
			Range			513- 765		625- 890	642- 642	745- 1030		800- 970	825- 825		
			Sample Size	0	0	4	0	25	1	64	0	9	1	0	0
1993		M	Mean Length		490	536		747		834		880	843		
	Sport		Std. Error		130	12		39		37		-	-		
			Range												
			Sample Size	0	2	14	0	7	0	7	0	1	1	0	0
		F	Mean Length			575		766		875		930	901		1005
			Std. Error			60		34		11		13	6		0
			Range												
			Sample Size	0	0	5	0	12	0	23	0	6	3	0	1

- continued -

Table 12. Mean length (mm) of chinook salmon from the Kanektok River based on carcass and sport caught samples (page 2 of 2).

Year	Sample Dates / Sample Type	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1994	8/8 - 8/16	M	Mean Length			742	550	770	780	877	867		852		
	Carcass		Std. Error			26	-	9	-	14	18		35		
			Range			565- 920	550- 550	595- 935	780- 780	740- 1005	810- 925		625- 1010		
			Sample Size	0	0	16	1	77	1	25	5	0	9	0	0
		F	Mean Length			797	595	828		851	857	857	854		
			Std. Error			2	-	12		7	12	8	7		
			Range			795- 800	595- 595	650- 925		760- 935	820- 890	840- 865	795- 895		
			Sample Size	0	0	2	1	24	0	44	6	3	18	0	0
1994	6/19 - 7/19	M	Mean Length			571		763		871		954			
	Sport		Std. Error			16		11		12		7			
			Range												
			Sample Size	0	0	5	0	39	0	27	0	3	0	0	0
		F	Mean Length					814		879		884			
			Std. Error					13		8		34			
			Range												
			Sample Size	0	0	0	0	7	0	44	0	3	0	0	0
1995	7/28 - 8/15	M	Mean Length			550		700		913					
	Carcass		Std. Error			17		20		9					
			Range			516- 570		648- 787		740- 1016					
			Sample Size	0	0	3	0	6	0	48	0	0	0	0	0
		F	Mean Length			581		911		882		874	851		
			Std. Error			38		20		8		5	19		
			Range			543- 619		882- 949		638- 987		864- 882	832- 870		
			Sample Size	0	0	2	0	3	0	54	0	3	2	0	0
1996	7/28 - 8/12	M	Mean Length			523		758		907	695	950	739		
	Carcass		Std. Error			23		16		18	40	30	-		
			Range			453- 605		510- 890		760- 1020	656- 735	738- 1042	739- 739		
			Sample Size	0	0	6	0	33	0	18	2	9	1	0	0
		F	Mean Length					829		861		917	868		
			Std. Error					29		8		11	5		
			Range					785- 907		770- 965		837- 980	860- 870		
			Sample Size	0	0	0	0	4	0	39	0	15	2	0	0

[a] Carcass samples were collected from gravel bars during river patrols by U.S. Fish and Wildlife Service personel.
Sport samples were collected as part of the Kanetktok River sport fishery creel survey, conducted by ADF&G, Sport Fish Division.
Carcass data from MacDonald (1996).
Sport fish data from unpublished memorandum; range data is unavailable.

Table 13. Age and sex of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1990[cd]	7/7, 10, 12, 17, 20 - 21	23	M		0.0		0.0		4.3		0.0		13.0		0.0		17.4		0.0		4.3		0.0		0.0		0.0		39.1
			F		0.0		0.0		34.8		0.0		4.3		0.0		21.7		0.0		0.0		0.0		0.0		0.0		60.9
			Total		0.0		0.0		39.1		0.0		17.4		0.0		39.1		0.0		4.3		0.0		0.0		0.0	3,636	100.0
1991	7/2, 7 -11, 15 - 23 (6/29 - 7/23)	61	M	0	0.0	0	0.0	315	19.7	0	0.0	419	26.2	0	0.0	157	9.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	892	55.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	78	4.9	0	0.0	447	27.9	0	0.0	184	11.5	0	0.0	0	0.0	0	0.0	709	44.3
			Subtotal	0	0.0	0	0.0	315	19.7	0	0.0	498	31.1	0	0.0	604	37.7	0	0.0	184	11.5	0	0.0	0	0.0	0	0.0	1,601	100.0
	7/24 - 30, 8/1 - 2 (7/24 - 8/2)	57	M	0	0.0	0	0.0	10	3.5	0	0.0	70	24.6	0	0.0	55	19.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	135	47.4
			F	0	0.0	0	0.0	5	1.8	0	0.0	20	7.0	0	0.0	85	29.8	0	0.0	30	10.5	5	1.8	0	0.0	5	1.8	151	52.6
			Subtotal	0	0.0	0	0.0	15	5.3	0	0.0	90	31.6	0	0.0	140	49.1	0	0.0	30	10.5	5	1.8	0	0.0	5	1.8	286	100.0
	8/3- 4, 6- 8 (8/3 - 8)	59	M	0	0.0	0	0.0	3	5.1	0	0.0	26	50.8	0	0.0	12	23.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	41	79.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	4	6.5	0	0.0	5	10.2	0	0.0	1	1.7	0	0.0	0	0.0	0	0.0	11	20.4
			Subtotal	0	0.0	0	0.0	3	5.1	0	0.0	31	59.3	0	0.0	18	33.9	0	0.0	1	1.7	0	0.0	0	0.0	0	0.0	52	100.0
	8/9 - 12 (8/9 - 12)	61	M	0	0.0	0	0.0	1	11.5	0	0.0	2	39.3	0	0.0	1	13.1	0	0.0	0	3.3	0	0.0	0	1.6	0	0.0	3	68.9
			F	0	0.0	0	0.0	0	0.0	0	0.0	1	19.7	0	0.0	0	8.2	0	0.0	0	3.3	0	0.0	0	0.0	0	0.0	2	31.1
			Subtotal	0	0.0	0	0.0	1	11.5	0	0.0	3	59.0	0	0.0	1	21.3	0	0.0	0	6.6	0	0.0	0	1.6	0	0.0	5	100.0
	8/13, 15, 17, 1 (8/13 - 25)	41	M	0	0.0	0	0.0	4	46.3	0	0.0	2	29.3	0	0.0	1	9.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7	85.4
			F	0	0.0	0	0.0	0	2.4	0	0.0	0	4.9	0	0.0	1	7.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	14.6
			Subtotal	0	0.0	0	0.0	4	48.7	0	0.0	3	34.2	0	0.0	1	17.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8	100.0
	Season	279	M	0	0.0	0	0.0	332	17.0	0	0.0	520	26.7	0	0.0	226	11.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,079	55.3
			F	0	0.0	0	0.0	5	0.3	0	0.0	104	5.3	0	0.0	538	27.6	0	0.0	215	11.0	5	0.3	0	0.0	5	0.3	873	44.7
			Total	0	0.0	0	0.0	338	17.3	0	0.0	625	32.0	0	0.0	764	39.1	0	0.0	215	11.0	5	0.3	0	0.0	5	0.3	1,952	100.0
1992[d]	(6/21 - 7/11)	0	M																										
			F																										
			Subtotal																									671	
	7/13, 16, 19- 2 24, 26 (7/12 - 28)	39	M	0	0.0	26	2.6	26	2.6	0	0.0	286	28.2	0	0.0	104	10.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	443	43.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	26	2.6	0	0.0	521	51.3	0	0.0	26	2.6	0	0.0	0	0.0	0	0.0	573	56.4
			Subtotal	0	0.0	26	2.6	26	2.6	0	0.0	313	30.8	0	0.0	625	61.5	0	0.0	26	2.6	0	0.0	0	0.0	0	0.0	1,016	100.0
	7/27, 29, 31; 8/2 (7/27 - 8/9)	31	M	0	0.0	0	0.0	28	12.9	0	0.0	28	12.9	7	3.2	35	16.1	0	0.0	7	3.2	0	0.0	0	0.0	0	0.0	104	48.4
			F	0	0.0	0	0.0	0	0.0	0	0.0	21	9.7	0	0.0	84	38.7	0	0.0	7	3.2	0	0.0	0	0.0	0	0.0	111	51.6
			Subtotal	0	0.0	0	0.0	28	12.9	0	0.0	49	22.6	7	3.2	118	54.8	0	0.0	14	6.4	0	0.0	0	0.0	0	0.0	216	100.0
	Season	70	M																										
			F																										
			Total																									1,903	
1993[d]	8/25 - 26 (8/22 - 7/8)	31	M	0	0.0	0	0.0	25	3.2	0	0.0	51	6.5	0	0.0	153	19.4	0	0.0	25	3.2	0	0.0	0	0.0	0	0.0	254	32.3
			F	0	0.0	0	0.0	76	9.7	0	0.0	127	16.1	0	0.0	279	35.5	0	0.0	51	6.5	0	0.0	0	0.0	0	0.0	533	67.7
			Total	0	0.0	0	0.0	101	12.9	0	0.0	178	22.6	0	0.0	432	54.9	0	0.0	76	9.7	0	0.0	0	0.0	0	0.0	787	100.0
	(7/9 - 8/10)	0	M																										
			F																										
			Total																									1,530	

-continued-

Table 13. Age and sex of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1993 (cont.)	Season	31	M																										
			F																										
			Total																									2,317	
1994[d]	6/26, 28- 29, 7/1, 3 (6/22 - 7/4)	30	M	0	0.0	0	0.0	43	3.3	0	0.0	43	3.3	0	0.0	214	16.7	0	0.0	43	3.3	0	0.0	0	0.0	0	0.0	342	26.7
			F	0	0.0	43	3.3	0	0.0	0	0.0	299	23.3	0	0.0	427	33.3	0	0.0	171	13.3	0	0.0	0	0.0	0	0.0	939	73.3
			Subtotal	0	0.0	43	3.3	43	3.3	0	0.0	341	26.6	0	0.0	641	50.0	0	0.0	213	16.6	0	0.0	0	0.0	0	0.0	1,281	100.0
	(7/5 - 14)	0	M																										
			F																										
			Subtotal																									1,328	
	7/20 - 24 (7/14 - 24)	70	M	0	0.0	0	0.0	20	2.9	0	0.0	212	31.4	0	0.0	135	20.0	0	0.0	9	1.4	0	0.0	0	0.0	0	0.0	375	55.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	19	2.9	0	0.0	202	30.0	0	0.0	58	8.6	19	2.9	0	0.0	0	0.0	299	44.3
			Subtotal	0	0.0	0	0.0	20	2.9	0	0.0	231	34.3	0	0.0	337	50.0	0	0.0	67	10.0	19	2.9	0	0.0	0	0.0	674	100.0
	7/25 - 31 (7/25 - 8/9)	108	M	0	0.0	0	0.0	26	4.6	0	0.0	164	28.7	0	0.0	122	21.3	0	0.0	21	3.7	5	0.9	0	0.0	0	0.0	339	59.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	32	5.6	0	0.0	164	28.7	0	0.0	32	5.6	5	0.9	0	0.0	0	0.0	234	40.8
			Subtotal	0	0.0	0	0.0	26	4.6	0	0.0	197	34.3	0	0.0	287	50.0	0	0.0	53	9.3	10	1.8	0	0.0	0	0.0	573	100.0
	Season	208	M																										
			F																										
			Total																									3,856	
1995	6/20 - 7/4 (6/19 - 7/5)	72	M	0	0.0	0	0.0	279	15.3	0	0.0	330	18.1	0	0.0	609	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,218	66.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	76	4.2	0	0.0	533	29.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	609	33.3
			Subtotal	0	0.0	0	0.0	279	15.3	0	0.0	407	22.2	0	0.0	1,142	62.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,828	100.0
	7/6, 9-13 (7/5 - 7/15)	95	M	0	0.0	0	0.0	371	20.0	0	0.0	254	13.7	0	0.0	331	17.9	0	0.0	20	1.1	0	0.0	0	0.0	0	0.0	976	52.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	78	4.2	0	0.0	781	42.1	0	0.0	20	1.1	0	0.0	0	0.0	0	0.0	879	47.4
			Subtotal	0	0.0	0	0.0	371	20.0	0	0.0	332	17.9	0	0.0	1,112	60.0	0	0.0	40	2.2	0	0.0	0	0.0	0	0.0	1,855	100.0
	7/18- 21 (7/16 - 7/22)	69	M	0	0.0	0	0.0	126	20.3	0	0.0	36	5.8	0	0.0	162	26.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	324	52.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	18	2.9	0	0.0	278	44.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	296	47.8
			Subtotal	0	0.0	0	0.0	126	20.3	0	0.0	54	8.7	0	0.0	440	71.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	620	100.0
	7/23- 8/7 (7/22 - 8/28)	72	M	0	0.0	0	0.0	67	12.5	0	0.0	44	8.3	0	0.0	89	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	200	37.5
			F	0	0.0	0	0.0	0	0.0	0	0.0	7	1.4	0	0.0	326	61.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	333	62.5
			Subtotal	0	0.0	0	0.0	67	12.5	0	0.0	52	9.7	0	0.0	415	77.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	533	100.0
	Season	308	M	0	0.0	0	0.0	842	17.4	0	0.0	665	13.7	0	0.0	1,191	24.6	0	0.0	20	0.4	0	0.0	0	0.0	0	0.0	2,718	56.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	180	3.7	0	0.0	1,918	39.7	0	0.0	20	0.4	0	0.0	0	0.0	0	0.0	2,117	43.8
			Total	0	0.0	0	0.0	842	17.4	0	0.0	844	17.5	0	0.0	3,109	64.3	0	0.0	40	0.8	0	0.0	0	0.0	0	0.0	4,836	100.0
1996[d]	(6/18 - 7/8)	0	M																										
			F																										
			Subtotal																									880	
	7/8 - 9 (7/7 - 15)	28	M	0	0.0	0	0.0	85	7.1	0	0.0	215	17.9	0	0.0	215	17.9	0	0.0	43	3.6	0	0.0	0	0.0	0	0.0	557	46.4
			F	0	0.0	0	0.0	0	0.0	0	0.0	128	10.7	0	0.0	472	39.3	0	0.0	43	3.6	0	0.0	0	0.0	0	0.0	643	53.6
			Subtotal	0	0.0	0	0.0	85	7.1	0	0.0	343	28.6	0	0.0	686	57.2	0	0.0	86	7.2	0	0.0	0	0.0	0	0.0	1,200	100.0

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Table 13. Age and sex of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	1.2 Esc.	1.2 %	2.1 Esc.	2.1 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	1.5 Esc.	1.5 %	2.4 Esc.	2.4 %	1.6 Esc.	1.6 %	2.5 Esc.	2.5 %	Total Esc.	Total %
1996 (cont.)	7/22 - 23 (7/16 - 8/23)	14	M	0	0.0	0	0.0	57	7.1	0	0.0	57	7.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	114	14.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	115	14.3	0	0.0	573	71.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	687	85.7
			Subtotal	0	0.0	0	0.0	57	7.1	0	0.0	172	21.4	0	0.0	573	71.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	802	100.0
	Season	42	M																										
			F																										
			Total																									2,882	
1997	6/25, 26; 7/1, 2 (6/14 - 7/3)	25	M	0	0.0	0	0.0	827	84.0	0	0.0	39	4.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	866	88.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	118	12.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	118	12.0
			Subtotal	0	0.0	0	0.0	827	84.0	0	0.0	39	4.0	0	0.0	118	12.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	984	100.0
	7/6, 7, 9, 10 (7/4 - 10)	45	M	0	0.0	0	0.0	463	55.5	0	0.0	56	6.7	0	0.0	130	15.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	649	77.8
			F	0	0.0	0	0.0	56	6.7	0	0.0	37	4.4	0	0.0	92	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	185	22.2
			Subtotal	0	0.0	0	0.0	519	62.2	0	0.0	93	11.1	0	0.0	222	26.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	834	100.0
	7/12 - 17 (7/11 - 18)	29	M	0	0.0	17	3.4	169	34.5	0	0.0	51	10.3	0	0.0	51	10.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	287	58.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	202	41.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	202	41.4
			Subtotal	0	0.0	17	3.4	169	34.5	0	0.0	51	10.3	0	0.0	253	51.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	489	100.0
	7/21 - 24 (7/19 - 8/29)	22	M	0	0.0	0	0.0	258	40.9	0	0.0	29	4.5	0	0.0	114	18.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	401	63.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	57	9.1	0	0.0	172	27.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	229	36.4
			Subtotal	0	0.0	0	0.0	258	40.9	0	0.0	86	13.6	0	0.0	286	45.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	630	100.0
	Season	121	M	0	0.0	17	0.6	1,716	58.4	0	0.0	174	5.9	0	0.0	295	10.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,202	75.0
			F	0	0.0	0	0.0	56	1.9	0	0.0	95	3.2	0	0.0	585	19.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	735	25.0
			Total	0	0.0	17	0.6	1,772	60.3	0	0.0	269	9.1	0	0.0	880	30.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,937	100.0
	Grand Total[f]	708	M	0	0.0	17	0.2	2,891	29.7	0	0.0	1,359	14.0	0	0.0	1,712	17.6	0	0.0	20	0.2	0	0.0	0	0.0	0	0.0	5,999	61.7
			F	0	0.0	0	0.0	61	0.6	0	0.0	379	3.9	0	0.0	3,041	31.3	0	0.0	235	2.4	5	0.1	0	0.0	5	0.1	3,726	38.3
			Total	0	0.0	17	0.2	2,952	30.4	0	0.0	1,738	17.9	0	0.0	4,753	48.9	0	0.0	256	2.6	5	0.1	0	0.0	5	0.1	9,725	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] In 1990 the Middle Fork Goodnews River escapement monitoring project operated as a tower. A beach seine was used for collection.
[d] Sampling dates fo not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".
[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums. Included are years 1991, 1995, and 1997.

Table 14. Mean length (mm) of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/20 - 7/4 (6/19 - 7/5)	M	Mean Length			567		711		898					
			Std. Error			18		20		18					
			Range			460- 650		620- 900		680- 1005					
			Sample Size	0	0	11	0	13	0	24	0	0	0	0	0
		F	Mean Length					790		876					
			Std. Error					52		11					
			Range					700- 880		770- 965					
			Sample Size	0	0	0	0	3	0	21	0	0	0	0	0
	7/6, 9-13 (7/5 - 7/15)	M	Mean Length			560		701		866		990			
			Std. Error			11		19		20		-			
			Range			465- 655		550- 800		720- 1015		990- 990			
			Sample Size	0	0	19	0	13	0	17	0	1	0	0	0
		F	Mean Length					726		875		890			
			Std. Error					57		8		-			
			Range					560- 805		770- 990		890- 890			
			Sample Size	0	0	0	0	4	0	40	0	1	0	0	0
	7/18- 21 (7/16 - 7/22)	M	Mean Length			551		691		872					
			Std. Error			27		62		19					
			Range			445- 850		610- 875		725- 990					
			Sample Size	0	0	14	0	4	0	18	0	0	0	0	0
		F	Mean Length					788		844					
			Std. Error					53		15					
			Range					735- 840		470- 950					
			Sample Size	0	0	0	0	2	0	31	0	0	0	0	0
	7/23- 8/7 (7/22 - 8/28)	M	Mean Length			591		733		863					
			Std. Error			14		30		27					
			Range			495- 640		665- 870		705- 1010					
			Sample Size	0	0	9	0	6	0	12	0	0	0	0	0
		F	Mean Length					650		875					
			Std. Error					-		7					
			Range					650- 650		760- 940					
			Sample Size	0	0	0	0	1	0	44	0	0	0	0	0
	Season	M	Mean Length			563		708		883		990			
			Range			445- 850		550- 900		680- 1015		990- 990			
			Sample Size	0	0	53	0	36	0	71	0	1	0	0	0
		F	Mean Length					756		871		890			
			Range					560- 880		470- 990		890- 890			
			Sample Size	0	0	0	0	10	0	136	0	1	0	0	0

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Table 14. Mean length (mm) of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996[b]	7/8 - 9 (7/7 - 15)	M	Mean Length			580		736		883		900			
			Std. Error			75		4		20		-			
			Range			505- 655		725- 750		820- 950		900- 900			
			Sample Size	0	0	2	0	5	0	5	0	1	0	0	0
		F	Mean Length					768		877		930			
			Std. Error					19		16		-			
			Range					720- 810		775- 950		930- 930			
			Sample Size	0	0	0	0	3	0	11	0	1	0	0	0
	7/22 - 23 (7/16 - 8/23)	M	Mean Length			645		795							
			Std. Error			-		-							
			Range			645- 645		795- 795							
			Sample Size	0	0	1	0	1	0	0	0	0	0	0	0
		F	Mean Length					785		840					
			Std. Error					30		12					
			Range					755- 815		790- 905					
			Sample Size	0	0	0	0	2	0	10	0	0	0	0	0
1997	6/25, 28; 7/1- 2 (6/14 - 7/3)	M	Mean Length			570		710							
			Std. Error			6		-							
			Range			515- 635		710- 710							
			Sample Size		0	21	0	1	0	0	0	0	0	0	0
		F	Mean Length							828					
			Std. Error							43					
			Range							780- 915					
			Sample Size		0	0	0	0	0	3	0	0	0	0	0
	7/6, 7, 9, 10 (7/4 - 10)	M	Mean Length			567		798		839					
			Std. Error			12		57		23					
			Range			450- 670		720- 910		750- 940					
			Sample Size		0	25	0	3	0	7	0	0	0	0	0
		F	Mean Length			610		728		884					
			Std. Error			38		33		39					
			Range			540- 670		695- 760		780-1005					
			Sample Size		0	3	0	2	0	5	0	0	0	0	0
	7/12 - 17 (7/11 - 18)	M	Mean Length		440	585		742		910					
			Std. Error		-	16		12		61					
			Range		440- 440	530- 670		730- 765		810-1020					
			Sample Size		1	10	0	3	0	3	0	0	0	0	0
		F	Mean Length							871					
			Std. Error							16					
			Range							810- 990					
			Sample Size		0	0	0	0	0	12	0	0	0	0	0

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Table 14. Mean length (mm) of chinook salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997 (cont.)	7/21 - 24 (7/19 - 8/29)	M	Mean Length			573		720		963					
			Std. Error			19		-		36					
			Range			470- 640		720- 720		865-1035					
			Sample Size		0	9	0	1	0	4	0	0	0	0	0
		F	Mean Length					770		886					
			Std. Error					20		15					
			Range					750- 790		845- 940					
			Sample Size		0	0	0	2	0	6	0	0	0	0	0
	Season	M	Mean Length		440	571		749		899					
			Range		440- 440	450- 670		710- 910		750-1035					
			Sample Size		1	65	0	8	0	14	0	0	0	0	0
		F	Mean Length			610		753		869					
			Range			540- 670		695- 790		780-1005					
			Sample Size		0	3	0	4	0	26	0	0	0	0	0
	Grand Total [c]	M	Mean Length		440	567		728		891		990			
			Range		440- 440	445- 850		550- 910		680- 1035		990- 990			
			Sample Size	0	1	118	0	44	0	85	0	1	0	0	0
		F	Mean Length			610		755		870		890			
			Range			540- 670		560- 880		470- 1005		890- 890			
			Sample Size	0	0	3	0	14	0	162	0	1	0	0	0

a "Season" mean lengths are weighted by the escapement passage in each stratum.

b Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in "Grand Total".

c "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 15. Age and sex of chinook salmon carcasses at the Middle Fork Goodnews River weir. [ab]

Year	Sample Date	Sample Size	Sex	Age Class																							
				0.2		1.1		1.2		2.1		1.3		2.2		1.4		2.3		1.5		2.4		1.6		2.5		Total	
				Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%	Esc.	%
1996	8/9- 10, 12, 15	107	M		0.0		6.5		14.0		0.0		29.0		0.0		10.3		0.0		1.9		0.0		0.0		0.0		61.7
			F		0.0		0.0		0.0		0.0		18.7		0.0		17.8		0.0		1.9		0.0		0.0		0.0		38.3
			Total		0.0		6.5		14.0		0.0		47.7		0.0		28.1		0.0		3.8		0.0		0.0		0.0		100.0

[a] Sample percentages are not used to estimate escapement percentages.
[b] Chinook salmon carcasses were sampled from carcasses on the upstream side of the weir.

Table 16. Mean length (mm) of chinook salmon carcasses at the Middle Fork Goodnews River weir. [a]

Year	Sample Dates	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996	8/9- 10, 12, 15	M	Mean Length		383	517		766		848		1043			
			Std. Error		20	10		11		20		43			
			Range		325- 460	425- 590		645- 920		765- 980		1000- 1085			
			Sample Size	0	7	15	0	31	0	11	0	2	0	0	0
		F	Mean Length					756		842		903			
			Std. Error					16		13		8			
			Range					630- 885		725- 950		895- 910			
			Sample Size	0	0	0	0	20	0	19	0	2	0	0	0

[a] Chinook salmon carcasses were sampled from carcasses on the upstream side of the weir.

Table 17. Age and sex of chinook salmon from the District 1 commercial fishery.[ab]

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1974	6/10-11	29	M	0	0.0	0	0.0	0	0.0	0	0.0	302	6.9	0	0.0	1,057	24.1	0	0.0	302	6.9	0	0.0	0	0.0	0	0.0	1,662	37.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,968	44.9	0	0.0	754	17.2	0	0.0	0	0.0	0	0.0	2,722	62.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	302	6.9	0	0.0	3,025	69.0	0	0.0	1,057	24.1	0	0.0	0	0.0	0	0.0	4,384	100.0
	6/13-14	44	M	0	0.0	0	0.0	266	4.6	0	0.0	787	13.6	0	0.0	1,314	22.7	0	0.0	660	11.4	0	0.0	0	0.0	0	0.0	3,026	52.3
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,629	45.4	0	0.0	133	2.3	0	0.0	0	0.0	0	0.0	2,762	47.7
	Mesh Size)		Subtotal	0	0.0	0	0.0	266	4.6	0	0.0	787	13.6	0	0.0	3,943	68.1	0	0.0	793	13.7	0	0.0	0	0.0	0	0.0	5,796	100.0
	6/17-18	46	M	0	0.0	129	2.2	1,019	17.4	0	0.0	638	10.9	0	0.0	2,161	36.9	0	0.0	252	4.3	0	0.0	0	0.0	0	0.0	4,199	71.7
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	129	2.2	0	0.0	1,400	23.9	0	0.0	129	2.2	0	0.0	0	0.0	0	0.0	1,658	28.3
	Mesh Size)		Subtotal	0	0.0	129	2.2	1,019	17.4	0	0.0	767	13.1	0	0.0	3,561	60.8	0	0.0	381	6.5	0	0.0	0	0.0	0	0.0	5,857	100.0
	Season	73	M	0	0.0	129	0.8	1,285	8.0	0	0.0	1,728	10.8	0	0.0	4,532	28.3	0	0.0	1,214	7.6	0	0.0	0	0.0	0	0.0	8,889	55.4
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	129	0.8	0	0.0	5,997	37.4	0	0.0	1,016	6.3	0	0.0	0	0.0	0	0.0	7,142	44.6
	Mesh Size)		Total	0	0.0	129	0.8	1,285	8.0	0	0.0	1,857	11.6	0	0.0	10,529	65.7	0	0.0	2,230	13.9	0	0.0	0	0.0	0	0.0	16,031	100.0
	6/27	10	M	0	0.0	0	0.0	0	0.0	0	0.0	93	8.3	0	0.0	93	8.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	186	16.6
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	93	8.3	0	0.0	186	16.6	0	0.0	655	58.5	0	0.0	0	0.0	0	0.0	933	83.4
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	186	16.6	0	0.0	279	24.9	0	0.0	655	58.5	0	0.0	0	0.0	0	0.0	1,119	100.0
	7/4 - 5	10	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	342	66.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	342	66.7
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	171	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	171	33.3
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	513	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	513	100.0
	Season	20	M	0	0.0	0	0.0	0	0.0	0	0.0	93	5.7	0	0.0	435	26.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	528	32.3
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	93	5.7	0	0.0	357	21.8	0	0.0	655	40.1	0	0.0	0	0.0	0	0.0	1,104	67.7
	Mesh Size)		Total	0	0.0	0	0.0	0	0.0	0	0.0	186	11.4	0	0.0	792	48.6	0	0.0	655	40.1	0	0.0	0	0.0	0	0.0	1,632	100.0
	Season	93	M	0	0.0	129	0.7	1,285	7.3	0	0.0	1,821	10.3	0	0.0	4,967	28.1	0	0.0	1,214	6.9	0	0.0	0	0.0	0	0.0	9,417	53.3
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	222	1.3	0	0.0	6,353	36.0	0	0.0	1,671	9.5	0	0.0	0	0.0	0	0.0	8,246	46.7
	Mesh Size)		Total	0	0.0	129	0.7	1,285	7.3	0	0.0	2,043	11.6	0	0.0	11,321	64.1	0	0.0	2,885	16.3	0	0.0	0	0.0	0	0.0	17,663	100.0
1975	6/19 - 20	79	M	0	0.0	0	0.0	18	1.3	0	0.0	845	60.8	0	0.0	35	2.5	0	0.0	53	3.8	0	0.0	0	0.0	0	0.0	951	68.4
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	264	19.0	0	0.0	122	8.8	0	0.0	53	3.8	0	0.0	0	0.0	0	0.0	439	31.6
	Mesh Size)		Subtotal	0	0.0	0	0.0	18	1.3	0	0.0	1,109	79.8	0	0.0	157	11.3	0	0.0	106	7.6	0	0.0	0	0.0	0	0.0	1,390	100.0
	6/23-24	106	M	0	0.0	0	0.0	0	0.0	0	0.0	10,565	61.3	0	0.0	1,620	9.4	0	0.0	655	3.8	0	0.0	0	0.0	0	0.0	12,840	74.5
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	4,085	23.7	0	0.0	155	0.9	0	0.0	155	0.9	0	0.0	0	0.0	0	0.0	4,395	25.5
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	14,650	85.0	0	0.0	1,775	10.3	0	0.0	810	4.7	0	0.0	0	0.0	0	0.0	17,235	100.0
	Season	185	M	0	0.0	0	0.0	18	0.1	0	0.0	11,410	61.3	0	0.0	1,655	8.9	0	0.0	708	3.8	0	0.0	0	0.0	0	0.0	13,791	74.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	4,349	23.3	0	0.0	277	1.5	0	0.0	208	1.1	0	0.0	0	0.0	0	0.0	4,834	26.0
	Mesh Size)		Total	0	0.0	0	0.0	18	0.1	0	0.0	15,759	84.6	0	0.0	1,932	10.4	0	0.0	916	4.9	0	0.0	0	0.0	0	0.0	18,625	100.0
	6/30, 7/3,	0	M																										
	7/7, 10, 14		F																										
	(Restricted Mesh Size)		Subtotal																									2,122	
	Season	185	M																										
	(Restricted & Unrestricted		F																										
	Mesh Size)		Total																									20,747	

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 2 of 11).

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1976	6/17	112	M	0	0.0	0	0.0	0	0.0	0	0.0	2,179	31.3	0	0.0	1,302	18.7	0	0.0	63	0.9	0	0.0	0	0.0	0	0.0	3,544	50.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	494	7.1	0	0.0	2,673	38.4	0	0.0	251	3.6	0	0.0	0	0.0	0	0.0	3,418	49.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	2,673	38.4	0	0.0	3,975	57.1	0	0.0	313	4.5	0	0.0	0	0.0	0	0.0	6,962	100.0
	6/21	112	M	0	0.0	0	0.0	0	0.0	0	0.0	4,436	34.0	0	0.0	2,088	16.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,524	50.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,396	10.7	0	0.0	5,010	38.4	0	0.0	117	0.9	0	0.0	0	0.0	0	0.0	6,524	50.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	5,832	44.7	0	0.0	7,098	54.4	0	0.0	117	0.9	0	0.0	0	0.0	0	0.0	13,048	100.0
	Season	224	M	0	0.0	0	0.0	0	0.0	0	0.0	6,615	33.1	0	0.0	3,390	16.9	0	0.0	63	0.3	0	0.0	0	0.0	0	0.0	10,068	50.3
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,890	9.4	0	0.0	7,684	38.4	0	0.0	368	1.8	0	0.0	0	0.0	0	0.0	9,942	49.7
	Mesh Size)		Total	0	0.0	0	0.0	0	0.0	0	0.0	8,506	42.5	0	0.0	11,073	55.3	0	0.0	431	2.2	0	0.0	0	0.0	0	0.0	20,010	100.0
	6/28, 7/1,	0	M																										
	7/8, 12, 15		F																										
	(Restricted Mesh Size)		Subtotal																									7,200	
	Season	224	M																										
	(Restricted & Unrestricted		F																										
	Mesh Size)		Total																									27,210	
1977	6/15	103	M	0	0.0	0	0.0	125	1.0	0	0.0	2,903	23.3	0	0.0	5,806	46.6	0	0.0	237	1.9	0	0.0	0	0.0	0	0.0	9,069	72.8
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	361	2.9	0	0.0	2,666	21.4	0	0.0	361	2.9	0	0.0	0	0.0	0	0.0	3,389	27.2
	Mesh Size)		Subtotal	0	0.0	0	0.0	125	1.0	0	0.0	3,264	26.2	0	0.0	8,471	68.0	0	0.0	598	4.8	0	0.0	0	0.0	0	0.0	12,458	100.0
	6/20	101	M	0	0.0	0	0.0	0	0.0	0	0.0	4,982	30.7	0	0.0	4,819	29.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,801	60.4
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	487	3.0	0	0.0	5,939	36.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,426	39.6
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	5,468	33.7	0	0.0	10,759	66.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16,227	100.0
	Season	204	M	0	0.0	0	0.0	125	0.4	0	0.0	7,884	27.5	0	0.0	10,625	37.0	0	0.0	237	0.8	0	0.0	0	0.0	0	0.0	18,871	65.8
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	848	3.0	0	0.0	8,605	30.0	0	0.0	361	1.3	0	0.0	0	0.0	0	0.0	9,814	34.2
	Mesh Size)		Total	0	0.0	0	0.0	125	0.4	0	0.0	8,732	30.4	0	0.0	19,230	67.0	0	0.0	598	2.1	0	0.0	0	0.0	0	0.0	28,685	100.0
	6/27	7	M	0	0.0	0	0.0	0	0.0	0	0.0	763	57.1	0	0.0	191	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	955	71.4
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	382	28.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	382	28.6
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	1,146	85.7	0	0.0	191	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,337	100.0
	6/30	1	M	0	0.0	0	0.0	504	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	504	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	504	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	504	100.0
	7/4	7	M	0	0.0	0	0.0	0	0.0	0	0.0	76	28.5	0	0.0	76	28.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	152	57.1
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	38	14.3	0	0.0	76	28.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	114	42.9
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	114	42.8	0	0.0	152	57.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	266	100.0
	7/7	12	M	0	0.0	0	0.0	0	0.0	0	0.0	34	8.3	0	0.0	34	8.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	68	16.6
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	34	8.3	0	0.0	68	16.6	0	0.0	238	58.5	0	0.0	0	0.0	0	0.0	339	83.4
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	68	16.6	0	0.0	101	24.9	0	0.0	238	58.5	0	0.0	0	0.0	0	0.0	407	100.0
	7/15	3	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	66.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102	66.7
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	33.3
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	153	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	153	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 3 of 11).

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1977	Season	30	M	0	0.0	0	0.0	504	18.9	0	0.0	873	32.7	0	0.0	403	15.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,780	66.7
(cont.)	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	454	17.0	0	0.0	195	7.3	0	0.0	238	8.9	0	0.0	0	0.0	0	0.0	887	33.3
	Mesh Size)		Total	0	0.0	0	0.0	504	18.9	0	0.0	1,327	49.8	0	0.0	598	22.4	0	0.0	238	8.9	0	0.0	0	0.0	0	0.0	2,667	100.0
	Season	234	M	0	0.0	0	0.0	629	2.0	0	0.0	8,757	27.9	0	0.0	11,026	35.2	0	0.0	237	0.8	0	0.0	0	0.0	0	0.0	20,651	65.9
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,302	4.2	0	0.0	8,800	28.1	0	0.0	599	1.9	0	0.0	0	0.0	0	0.0	10,701	34.1
	Mesh Size)		Total	0	0.0	0	0.0	629	2.0	0	0.0	10,060	32.1	0	0.0	19,826	63.2	0	0.0	836	2.7	0	0.0	0	0.0	0	0.0	31,352	100.0
1978	6/9	101	M	0	0.0	0	0.0	8	0.1	0	0.0	827	10.9	0	0.0	2,732	36.0	0	0.0	531	7.0	0	0.0	0	0.0	0	0.0	4,099	54.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	228	3.0	0	0.0	2,922	38.5	0	0.0	342	4.5	0	0.0	0	0.0	0	0.0	3,491	46.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	8	0.1	0	0.0	1,055	13.9	0	0.0	5,655	74.5	0	0.0	873	11.5	0	0.0	0	0.0	0	0.0	7,590	100.0
	6/14, 16	92	M	0	0.0	0	0.0	0	0.0	0	0.0	554	3.0	0	0.0	7,763	42.0	0	0.0	554	3.0	0	0.0	0	0.0	0	0.0	8,872	48.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	924	5.0	0	0.0	8,502	46.0	0	0.0	185	1.0	0	0.0	0	0.0	0	0.0	9,611	52.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	1,479	8.0	0	0.0	16,265	88.0	0	0.0	739	4.0	0	0.0	0	0.0	0	0.0	18,483	100.0
	6/22, 23	97	M	0	0.0	0	0.0	0	0.0	0	0.0	1,107	11.0	0	0.0	1,913	19.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,020	30.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	604	6.0	0	0.0	6,342	63.0	0	0.0	101	1.0	0	0.0	0	0.0	0	0.0	7,046	70.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	1,711	17.0	0	0.0	8,254	82.0	0	0.0	101	1.0	0	0.0	0	0.0	0	0.0	10,066	100.0
	Season	193	M	0	0.0	0	0.0	8	0.0	0	0.0	2,489	6.9	0	0.0	12,408	34.3	0	0.0	1,086	3.0	0	0.0	0	0.0	0	0.0	15,990	44.2
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,756	4.9	0	0.0	17,766	49.2	0	0.0	627	1.7	0	0.0	0	0.0	0	0.0	20,149	55.8
	Mesh Size)		Total	0	0.0	0	0.0	8	0.0	0	0.0	4,245	11.7	0	0.0	30,174	83.5	0	0.0	1,713	4.7	0	0.0	0	0.0	0	0.0	36,139	100.0
	6/26, 29;	0	M																										
	7/3, 6, 10		F																										
	(Restricted Mesh Size)		Subtotal																									7,064	
	Season	193	M																										
	(Restricted & Unrestricted		F																										
	Mesh Size)		Total																									43,203	
1979	6/11	99	M	0	0.0	0	0.0	871	7.1	0	0.0	2,601	21.2	0	0.0	1,465	12.1	0	0.0	245	2.0	0	0.0	0	0.0	0	0.0	5,202	42.4
	(Unrestricted		F	0	0.0	0	0.0	503	4.1	0	0.0	2,601	21.2	0	0.0	3,337	27.2	0	0.0	626	5.1	0	0.0	0	0.0	0	0.0	7,068	57.6
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,374	11.2	0	0.0	5,202	42.4	0	0.0	4,822	39.3	0	0.0	871	7.1	0	0.0	0	0.0	0	0.0	12,270	100.0
	6/15	96	M	0	0.0	0	0.0	1,286	10.4	0	0.0	2,707	21.9	0	0.0	1,422	11.5	0	0.0	260	2.1	0	0.0	0	0.0	0	0.0	5,675	45.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	2,312	18.7	0	0.0	3,857	31.2	0	0.0	519	4.2	0	0.0	0	0.0	0	0.0	6,688	54.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,286	10.4	0	0.0	5,019	40.6	0	0.0	5,279	42.7	0	0.0	779	6.3	0	0.0	0	0.0	0	0.0	12,363	100.0
	Season	195	M	0	0.0	0	0.0	2,157	8.8	0	0.0	5,309	21.6	0	0.0	2,906	11.8	0	0.0	505	2.1	0	0.0	0	0.0	0	0.0	10,877	44.2
	(Unrestricted		F	0	0.0	0	0.0	503	2.0	0	0.0	4,913	19.9	0	0.0	7,195	29.2	0	0.0	1,145	4.6	0	0.0	0	0.0	0	0.0	13,756	55.8
	Mesh Size)		Total	0	0.0	0	0.0	2,660	10.8	0	0.0	10,222	41.5	0	0.0	10,101	41.0	0	0.0	1,650	6.7	0	0.0	0	0.0	0	0.0	24,633	100.0
	6/22	25	M	0	0.0	0	0.0	3,165	56.0	0	0.0	1,582	28.0	0	0.0	226	4.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,973	88.0
	(Restricted		F	0	0.0	0	0.0	452	8.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	226	4.0	0	0.0	0	0.0	0	0.0	678	12.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	3,617	64.0	0	0.0	1,582	28.0	0	0.0	226	4.0	0	0.0	226	4.0	0	0.0	0	0.0	0	0.0	5,651	100.0
	6/26	14	M	0	0.0	0	0.0	651	28.6	0	0.0	813	35.7	0	0.0	0	0.0	0	0.0	162	7.1	0	0.0	0	0.0	0	0.0	1,626	71.4
	(Restricted		F	0	0.0	0	0.0	490	21.5	0	0.0	162	7.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	651	28.6
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,141	50.1	0	0.0	975	42.8	0	0.0	0	0.0	0	0.0	162	7.1	0	0.0	0	0.0	0	0.0	2,277	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 4 of 11).

Year	Sample Date	Sample Size	Sex	0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1979	6/29	12	M	0	0.0	0	0.0	529	33.4	0	0.0	923	58.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,452	91.7
(cont.)	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	131	8.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	131	8.3
	Mesh Size)		Subtotal	0	0.0	0	0.0	529	33.4	0	0.0	1,054	66.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,583	100.0
	7/3	1	M	0	0.0	0	0.0	0	0.0	0	0.0	1,233	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,233	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	1,233	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,233	100.0
	7/10	1	M	0	0.0	0	0.0	0	0.0	0	0.0	470	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	470	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	470	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	470	100.0
	Season	63	M	0	0.0	0	0.0	4,345	38.7	0	0.0	5,021	44.8	0	0.0	226	2.0	0	0.0	162	1.4	0	0.0	0	0.0	0	0.0	9,753	87.0
	(Restricted		F	0	0.0	0	0.0	942	8.4	0	0.0	293	2.6	0	0.0	0	0.0	0	0.0	226	2.0	0	0.0	0	0.0	0	0.0	1,461	13.0
	Mesh Size)		Total	0	0.0	0	0.0	5,286	47.1	0	0.0	5,314	47.4	0	0.0	226	2.0	0	0.0	388	3.5	0	0.0	0	0.0	0	0.0	11,214	100.0
	Season	248	M	0	0.0	0	0.0	6,501	18.1	0	0.0	10,330	28.8	0	0.0	3,132	8.7	0	0.0	667	1.9	0	0.0	0	0.0	0	0.0	20,630	57.6
	(Restricted & Unrestricted		F	0	0.0	0	0.0	1,445	4.0	0	0.0	5,206	14.5	0	0.0	7,195	20.1	0	0.0	1,371	3.8	0	0.0	0	0.0	0	0.0	15,217	42.4
	Mesh Size)		Total	0	0.0	0	0.0	7,946	22.2	0	0.0	15,536	43.3	0	0.0	10,327	28.8	0	0.0	2,038	5.7	0	0.0	0	0.0	0	0.0	35,847	100.0
1980	6/12	108	M	0	0.0	0	0.0	188	1.9	0	0.0	5,490	55.5	0	0.0	1,375	13.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,052	71.3
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,009	10.2	0	0.0	1,741	17.6	0	0.0	89	0.9	0	0.0	0	0.0	0	0.0	2,839	28.7
	Mesh Size)		Subtotal	0	0.0	0	0.0	188	1.9	0	0.0	6,498	65.7	0	0.0	3,116	31.5	0	0.0	89	0.9	0	0.0	0	0.0	0	0.0	9,891	100.0
	6/18	110	M	0	0.0	0	0.0	931	5.5	0	0.0	9,222	54.5	0	0.0	1,388	8.2	0	0.0	305	1.8	0	0.0	0	0.0	0	0.0	11,845	70.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	3,536	20.9	0	0.0	1,083	6.4	0	0.0	457	2.7	0	0.0	0	0.0	0	0.0	5,076	30.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	931	5.5	0	0.0	12,758	75.4	0	0.0	2,470	14.6	0	0.0	761	4.5	0	0.0	0	0.0	0	0.0	16,921	100.0
	Season	218	M	0	0.0	0	0.0	1,119	4.2	0	0.0	14,711	54.9	0	0.0	2,762	10.3	0	0.0	305	1.1	0	0.0	0	0.0	0	0.0	18,897	70.5
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	4,545	17.0	0	0.0	2,824	10.5	0	0.0	546	2.0	0	0.0	0	0.0	0	0.0	7,916	29.5
	Mesh Size)		Total	0	0.0	0	0.0	1,119	4.2	0	0.0	19,257	71.8	0	0.0	5,586	20.8	0	0.0	850	3.2	0	0.0	0	0.0	0	0.0	26,812	100.0
	6/23, 26	57	M	0	0.0	0	0.0	1,971	31.6	0	0.0	2,183	35.0	0	0.0	331	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,484	71.9
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	767	12.3	0	0.0	873	14.0	0	0.0	112	1.8	0	0.0	0	0.0	0	0.0	1,753	28.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,971	31.6	0	0.0	2,950	47.3	0	0.0	1,204	19.3	0	0.0	112	1.8	0	0.0	0	0.0	0	0.0	6,237	100.0
	7/9	3	M	0	0.0	0	0.0	943	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	943	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	943	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	943	100.0
	Season	60	M	0	0.0	0	0.0	2,914	40.6	0	0.0	2,183	30.4	0	0.0	331	4.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,427	75.6
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	767	10.7	0	0.0	873	12.2	0	0.0	112	1.6	0	0.0	0	0.0	0	0.0	1,753	24.4
	Mesh Size)		Total	0	0.0	0	0.0	2,914	40.6	0	0.0	2,950	41.1	0	0.0	1,204	16.8	0	0.0	112	1.6	0	0.0	0	0.0	0	0.0	7,180	100.0
	Season	278	M	0	0.0	0	0.0	4,032	11.9	0	0.0	16,894	49.7	0	0.0	3,093	9.1	0	0.0	305	0.9	0	0.0	0	0.0	0	0.0	24,324	71.6
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	5,313	15.6	0	0.0	3,697	10.9	0	0.0	658	1.9	0	0.0	0	0.0	0	0.0	9,668	28.4
	Mesh Size)		Total	0	0.0	0	0.0	4,032	11.9	0	0.0	22,207	65.3	0	0.0	6,790	20.0	0	0.0	963	2.8	0	0.0	0	0.0	0	0.0	33,992	100.0
1981	6/10	182	M	0	0.0	0	0.0	202	1.7	0	0.0	3,403	28.6	0	0.0	2,939	24.7	0	0.0	131	1.1	0	0.0	0	0.0	0	0.0	6,674	56.1
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	785	6.6	0	0.0	3,712	31.2	0	0.0	726	6.1	0	0.0	0	0.0	0	0.0	5,223	43.9
	Mesh Size)		Subtotal	0	0.0	0	0.0	202	1.7	0	0.0	4,188	35.2	0	0.0	6,650	55.9	0	0.0	857	7.2	0	0.0	0	0.0	0	0.0	11,897	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 5 of 11).

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1981	6/16	173	M	0	0.0	0	0.0	306	1.7	0	0.0	8,111	45.1	0	0.0	1,978	11.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10,395	57.8
(cont.)	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	522	2.9	0	0.0	6,762	37.6	0	0.0	306	1.7	0	0.0	0	0.0	0	0.0	7,590	42.2
	Mesh Size)		Subtotal	0	0.0	0	0.0	306	1.7	0	0.0	8,633	48.0	0	0.0	8,741	48.6	0	0.0	306	1.7	0	0.0	0	0.0	0	0.0	17,985	100.0
	Season	355	M	0	0.0	0	0.0	508	1.7	0	0.0	11,514	38.5	0	0.0	4,917	16.5	0	0.0	131	0.4	0	0.0	0	0.0	0	0.0	17,070	57.1
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,307	4.4	0	0.0	10,474	35.1	0	0.0	1,031	3.5	0	0.0	0	0.0	0	0.0	12,812	42.9
	Mesh Size)		Total	0	0.0	0	0.0	508	1.7	0	0.0	12,821	42.9	0	0.0	15,391	51.5	0	0.0	1,162	3.9	0	0.0	0	0.0	0	0.0	29,882	100.0
	6/22	54	M	0	0.0	0	0.0	923	24.1	0	0.0	1,272	33.2	0	0.0	709	18.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,903	75.8
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	73	1.9	0	0.0	781	20.4	0	0.0	73	1.9	0	0.0	0	0.0	0	0.0	927	24.2
	Mesh Size)		Subtotal	0	0.0	0	0.0	923	24.1	0	0.0	1,344	35.1	0	0.0	1,490	38.9	0	0.0	73	1.9	0	0.0	0	0.0	0	0.0	3,830	100.0
	6/25	29	M	0	0.0	0	0.0	344	17.2	0	0.0	622	31.1	0	0.0	414	20.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,380	69.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	206	10.3	0	0.0	414	20.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	620	31.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	344	17.2	0	0.0	828	41.4	0	0.0	828	41.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,000	100.0
	6/29	7	M	0	0.0	0	0.0	0	0.0	0	0.0	1,097	42.8	0	0.0	367	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,463	57.1
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	733	28.6	0	0.0	367	14.3	0	0.0	0	0.0	0	0.0	1,100	42.9
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	1,097	42.8	0	0.0	1,100	42.9	0	0.0	367	14.3	0	0.0	0	0.0	0	0.0	2,563	100.0
	7/2	3	M	0	0.0	0	0.0	1,139	66.7	0	0.0	568	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,707	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,139	66.7	0	0.0	568	33.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,707	100.0
	7/4	5	M	0	0.0	0	0.0	435	40.0	0	0.0	435	40.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	870	80.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	218	20.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	218	20.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	435	40.0	0	0.0	435	40.0	0	0.0	218	20.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,088	100.0
	7/9	6	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	246	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	246	50.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	246	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	246	50.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	491	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	491	100.0
	Season	104	M	0	0.0	0	0.0	2,841	24.3	0	0.0	3,994	34.2	0	0.0	1,735	14.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,570	73.4
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	279	2.4	0	0.0	2,391	20.5	0	0.0	439	3.8	0	0.0	0	0.0	0	0.0	3,109	26.6
	Mesh Size)		Total	0	0.0	0	0.0	2,841	24.3	0	0.0	4,273	36.6	0	0.0	4,126	35.3	0	0.0	439	3.8	0	0.0	0	0.0	0	0.0	11,679	100.0
	Season	459	M	0	0.0	0	0.0	3,349	8.1	0	0.0	15,508	37.3	0	0.0	6,651	16.0	0	0.0	131	0.3	0	0.0	0	0.0	0	0.0	25,639	61.7
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,586	3.8	0	0.0	12,866	31.0	0	0.0	1,471	3.5	0	0.0	0	0.0	0	0.0	15,922	38.3
	Mesh Size)		Total	0	0.0	0	0.0	3,349	8.1	0	0.0	17,093	41.1	0	0.0	19,517	47.0	0	0.0	1,602	3.9	0	0.0	0	0.0	0	0.0	41,561	100.0
1982	6/14	99	M	0	0.0	0	0.0	99	2.0	0	0.0	843	17.2	0	0.0	1,885	38.4	0	0.0	50	1.0	0	0.0	0	0.0	0	0.0	2,878	58.6
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	50	1.0	0	0.0	1,737	35.4	0	0.0	248	5.1	0	0.0	0	0.0	0	0.0	2,034	41.4
	Mesh Size)		Subtotal	0	0.0	0	0.0	99	2.0	0	0.0	893	18.2	0	0.0	3,622	73.7	0	0.0	298	6.1	0	0.0	0	0.0	0	0.0	4,912	100.0
	6/17	160	M	0	0.0	0	0.0	353	3.1	0	0.0	2,257	20.0	0	0.0	3,456	30.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,066	53.8
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	71	0.6	0	0.0	4,655	41.3	0	0.0	494	4.4	0	0.0	0	0.0	0	0.0	5,219	46.3
	Mesh Size)		Subtotal	0	0.0	0	0.0	353	3.1	0	0.0	2,328	20.6	0	0.0	8,111	71.9	0	0.0	494	4.4	0	0.0	0	0.0	0	0.0	11,285	100.0
	6/21	166	M	0	0.0	0	0.0	482	3.6	0	0.0	2,653	19.9	0	0.0	4,260	31.9	0	0.0	80	0.6	0	0.0	0	0.0	0	0.0	7,475	56.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	161	1.2	0	0.0	5,707	42.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,868	44.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	482	3.6	0	0.0	2,813	21.1	0	0.0	9,967	74.7	0	0.0	80	0.6	0	0.0	0	0.0	0	0.0	13,343	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 6 of 11).

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1982	6/24	162	M	0	0.0	53	0.6	791	9.3	0	0.0	2,163	25.3	0	0.0	2,005	23.6	106	1.2	53	0.6	0	0.0	0	0.0	0	0.0	5,171	60.5
(cont.)	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	158	1.9	0	0.0	2,797	32.7	53	0.6	369	4.3	0	0.0	0	0.0	0	0.0	3,377	39.5
	Mesh Size)		Subtotal	0	0.0	53	0.6	791	9.3	0	0.0	2,322	27.2	0	0.0	4,802	56.2	158	1.9	422	4.9	0	0.0	0	0.0	0	0.0	8,548	100.0
	Season	587	M	0	0.0	53	0.1	1,726	4.5	0	0.0	7,916	20.8	0	0.0	11,607	30.5	106	0.3	163	0.5	0	0.0	0	0.0	0	0.0	21,590	56.7
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	439	1.2	0	0.0	14,895	39.1	53	0.1	1,111	2.9	0	0.0	0	0.0	0	0.0	16,498	43.3
	Mesh Size)		Total	0	0.0	53	0.1	1,726	4.5	0	0.0	8,356	21.9	0	0.0	26,502	69.6	158	0.4	1,294	3.4	0	0.0	0	0.0	0	0.0	38,088	100.0
	6/28	26	M	0	0.0	0	0.0	972	50.0	0	0.0	299	15.4	0	0.0	149	7.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,420	73.1
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	75	3.8	0	0.0	448	23.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	523	26.9
	Mesh Size)		Subtotal	0	0.0	0	0.0	972	50.0	0	0.0	374	19.2	0	0.0	598	30.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,943	100.0
	6/30	51	M	0	0.0	0	0.0	1,177	37.3	0	0.0	681	21.6	0	0.0	310	9.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,168	68.6
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	186	5.9	0	0.0	805	25.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	991	31.4
	Mesh Size)		Subtotal	0	0.0	0	0.0	1,177	37.3	0	0.0	867	27.5	0	0.0	1,115	35.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,159	100.0
	7/5	9	M	0	0.0	0	0.0	583	66.7	0	0.0	97	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	681	77.8
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	97	11.1	0	0.0	97	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	194	22.2
	Mesh Size)		Subtotal	0	0.0	0	0.0	583	66.7	0	0.0	194	22.2	0	0.0	97	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	875	100.0
	7/8	30	M	0	0.0	25	3.3	249	33.3	0	0.0	150	20.0	0	0.0	75	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	499	66.7
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	25	3.3	0	0.0	199	26.7	0	0.0	25	3.3	0	0.0	0	0.0	0	0.0	249	33.3
	Mesh Size)		Subtotal	0	0.0	25	3.3	249	33.3	0	0.0	175	23.3	0	0.0	274	36.7	0	0.0	25	3.3	0	0.0	0	0.0	0	0.0	748	100.0
	7/12	8	M	0	0.0	0	0.0	38	12.5	0	0.0	77	25.0	0	0.0	77	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	192	62.5
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	115	37.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	115	37.5
	Mesh Size)		Subtotal	0	0.0	0	0.0	38	12.5	0	0.0	77	25.0	0	0.0	192	62.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	307	100.0
	Season	124	M	0	0.0	25	0.4	3,019	42.9	0	0.0	1,304	18.5	0	0.0	611	8.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,959	70.5
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	383	5.4	0	0.0	1,665	23.7	0	0.0	25	0.4	0	0.0	0	0.0	0	0.0	2,073	29.5
	Mesh Size)		Total	0	0.0	25	0.4	3,019	42.9	0	0.0	1,687	24.0	0	0.0	2,276	32.4	0	0.0	25	0.4	0	0.0	0	0.0	0	0.0	7,032	100.0
	Season	711	M	0	0.0	78	0.2	4,745	10.5	0	0.0	9,220	20.4	0	0.0	12,217	27.1	106	0.2	183	0.4	0	0.0	0	0.0	0	0.0	26,549	58.8
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	822	1.8	0	0.0	16,561	36.7	53	0.1	1,136	2.5	0	0.0	0	0.0	0	0.0	18,571	41.2
	Mesh Size)		Total	0	0.0	78	0.2	4,745	10.5	0	0.0	10,042	22.3	0	0.0	28,778	63.8	158	0.4	1,319	2.9	0	0.0	0	0.0	0	0.0	45,120	100.0
1983	6/13	501	M	0	0.0	0	0.0	253	3.4	0	0.0	834	11.2	0	0.0	2,643	35.5	15	0.2	238	3.2	104	1.4	0	0.0	0	0.0	4,087	54.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	238	3.2	0	0.0	2,643	35.5	0	0.0	387	5.2	74	1.0	0	0.0	15	0.2	3,358	45.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	253	3.4	0	0.0	1,072	14.4	0	0.0	5,286	71.0	15	0.2	625	8.4	179	2.4	0	0.0	15	0.2	7,445	100.0
	6/16	511	M	0	0.0	12	0.2	149	2.5	12	0.2	745	12.5	0	0.0	1,908	32.0	0	0.0	149	2.5	0	0.0	0	0.0	0	0.0	2,975	49.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	280	4.7	0	0.0	2,402	40.3	0	0.0	304	5.1	0	0.0	0	0.0	0	0.0	2,986	50.1
	Mesh Size)		Subtotal	0	0.0	12	0.2	149	2.5	12	0.2	1,025	17.2	0	0.0	4,310	72.3	0	0.0	453	7.6	0	0.0	0	0.0	0	0.0	5,961	100.0
	Season	1,012	M	0	0.0	12	0.1	402	3.0	12	0.1	1,579	11.8	0	0.0	4,550	33.9	15	0.1	387	2.9	104	0.8	0	0.0	0	0.0	7,062	52.7
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	518	3.9	0	0.0	5,045	37.6	0	0.0	691	5.2	74	0.6	0	0.0	15	0.1	6,344	47.3
	Mesh Size)		Total	0	0.0	12	0.1	402	3.0	12	0.1	2,097	15.6	0	0.0	9,596	71.6	15	0.1	1,078	8.0	179	1.3	0	0.0	15	0.1	13,406	100.0
	Season	249	M	0	0.0	513	3.2	5,532	34.5	0	0.0	2,582	16.1	0	0.0	2,646	16.5	0	0.0	192	1.2	0	0.0	0	0.0	0	0.0	11,466	71.5
	6/20 - 8/1		F	0	0.0	0	0.0	0	0.0	0	0.0	1,026	6.4	0	0.0	3,287	20.5	0	0.0	257	1.6	0	0.0	0	0.0	0	0.0	4,570	28.5
	(Restricted Mesh Size)		Total	0	0.0	513	3.2	5,532	34.5	0	0.0	3,608	22.5	0	0.0	5,933	37.0	0	0.0	449	2.8	0	0.0	0	0.0	0	0.0	16,036	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 7 of 11).

Year	Sample Date	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1983	Season	1,261	M	0	0.0	525	1.8	5,935	20.2	12	0.0	4,161	14.1	0	0.0	7,196	24.4	15	0.1	580	2.0	104	0.4	0	0.0	0	0.0	18,528	62.9
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,545	5.2	0	0.0	8,333	28.3	0	0.0	948	3.2	74	0.3	0	0.0	15	0.1	10,914	37.1
	Mesh Size)		Total	0	0.0	525	1.8	5,935	20.2	12	0.0	5,705	19.4	0	0.0	15,529	52.7	15	0.1	1,527	5.2	179	0.6	0	0.0	15	0.1	29,442	100.0
1984	6/18	271	M	0	0.0	0	0.0	520	4.8	0	0.0	3,460	31.9	0	0.0	2,256	20.8	80	0.7	400	3.7	120	1.1	0	0.0	0	0.0	6,836	63.0
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	280	2.6	0	0.0	2,809	25.9	80	0.7	760	7.0	80	0.7	0	0.0	0	0.0	4,009	37.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	520	4.8	0	0.0	3,740	34.5	0	0.0	5,065	46.7	160	1.5	1,161	10.7	200	1.8	0	0.0	0	0.0	10,845	100.0
	6/21	273	M	0	0.0	0	0.0	766	12.1	0	0.0	1,717	27.1	0	0.0	1,276	20.1	46	0.7	302	4.8	46	0.7	0	0.0	23	0.4	4,178	65.9
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	162	2.6	0	0.0	1,462	23.1	93	1.5	348	5.5	93	1.5	0	0.0	0	0.0	2,158	34.1
	Mesh Size)		Subtotal	0	0.0	0	0.0	766	12.1	0	0.0	1,880	29.7	0	0.0	2,739	43.2	139	2.2	650	10.3	139	2.2	0	0.0	23	0.4	6,336	100.0
	Season	544	M	0	0.0	0	0.0	1,286	7.5	0	0.0	5,177	30.1	0	0.0	3,532	20.6	126	0.7	702	4.1	166	1.0	0	0.0	23	0.1	11,013	64.1
	(Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	443	2.6	0	0.0	4,271	24.9	173	1.0	1,108	6.5	173	1.0	0	0.0	0	0.0	6,168	35.9
	Mesh Size)		Total	0	0.0	0	0.0	1,286	7.5	0	0.0	5,620	32.7	0	0.0	7,803	45.4	299	1.7	1,810	10.5	339	2.0	0	0.0	23	0.1	17,181	100.0
	6/25	27	M	0	0.0	0	0.0	894	29.6	0	0.0	1,341	44.4	0	0.0	224	7.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,459	81.5
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	224	7.4	0	0.0	224	7.4	0	0.0	112	3.7	0	0.0	0	0.0	0	0.0	559	18.5
	Mesh Size)		Subtotal	0	0.0	0	0.0	894	29.6	0	0.0	1,565	51.9	0	0.0	447	14.8	0	0.0	112	3.7	0	0.0	0	0.0	0	0.0	3,018	100.0
	6/28	50	M	0	0.0	53	2.0	368	14.0	0	0.0	1,155	44.0	0	0.0	420	16.0	53	2.0	0	0.0	0	0.0	0	0.0	0	0.0	2,048	78.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	158	6.0	0	0.0	368	14.0	0	0.0	53	2.0	0	0.0	0	0.0	0	0.0	578	22.0
	Mesh Size)		Subtotal	0	0.0	53	2.0	368	14.0	0	0.0	1,313	50.0	0	0.0	788	30.0	53	2.0	53	2.0	0	0.0	0	0.0	0	0.0	2,625	100.0
	7/2	11	M	0	0.0	0	0.0	361	18.2	0	0.0	723	36.4	0	0.0	181	9.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,265	63.6
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	181	9.1	0	0.0	361	18.2	0	0.0	181	9.1	0	0.0	0	0.0	0	0.0	723	36.4
	Mesh Size)		Subtotal	0	0.0	0	0.0	361	18.2	0	0.0	904	45.5	0	0.0	542	27.3	0	0.0	181	9.1	0	0.0	0	0.0	0	0.0	1,988	100.0
	7/5	13	M	0	0.0	0	0.0	94	7.7	0	0.0	468	38.5	0	0.0	187	15.4	0	0.0	94	7.7	0	0.0	0	0.0	0	0.0	843	69.2
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	94	7.7	0	0.0	281	23.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	375	30.8
	Mesh Size)		Subtotal	0	0.0	0	0.0	94	7.7	0	0.0	562	46.2	0	0.0	468	38.5	0	0.0	94	7.7	0	0.0	0	0.0	0	0.0	1,218	100.0
	7/9	6	M	0	0.0	202	16.7	404	33.3	0	0.0	0	0.0	0	0.0	202	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	807	66.7
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	202	16.7	0	0.0	202	16.7	0	0.0	0	0.0	0	0.0	404	33.3
	Mesh Size)		Subtotal	0	0.0	202	16.7	404	33.3	0	0.0	0	0.0	0	0.0	404	33.3	0	0.0	202	16.7	0	0.0	0	0.0	0	0.0	1,211	100.0
	7/12	7	M	0	0.0	0	0.0	123	14.3	0	0.0	368	42.9	123	14.3	123	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	735	85.7
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	123	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	123	14.3
	Mesh Size)		Subtotal	0	0.0	0	0.0	123	14.3	0	0.0	490	57.1	123	14.3	123	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	858	100.0
	7/16	12	M	0	0.0	0	0.0	186	25.0	0	0.0	372	50.0	0	0.0	186	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	744	100.0
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Mesh Size)		Subtotal	0	0.0	0	0.0	186	25.0	0	0.0	372	50.0	0	0.0	186	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	744	100.0
	Season	126	M	0	0.0	254	2.2	2,429	20.8	0	0.0	4,427	38.0	123	1.1	1,522	13.1	53	0.5	94	0.8	0	0.0	0	0.0	0	0.0	8,902	76.3
	(Restricted		F	0	0.0	0	0.0	0	0.0	0	0.0	778	6.7	0	0.0	1,435	12.3	0	0.0	547	4.7	0	0.0	0	0.0	0	0.0	2,760	23.7
	Mesh Size)		Total	0	0.0	254	2.2	2,429	20.8	0	0.0	5,205	44.6	123	1.1	2,957	25.4	53	0.5	641	5.5	0	0.0	0	0.0	0	0.0	11,662	100.0
	Season	670	M	0	0.0	254	0.9	3,715	12.9	0	0.0	9,604	33.3	123	0.4	5,054	17.5	179	0.6	796	2.8	166	0.6	0	0.0	23	0.1	19,915	69.0
	(Restricted & Unrestricted		F	0	0.0	0	0.0	0	0.0	0	0.0	1,221	4.2	0	0.0	5,706	19.8	173	0.6	1,655	5.7	173	0.6	0	0.0	0	0.0	8,928	31.0
	Mesh Size)		Total	0	0.0	254	0.9	3,715	12.9	0	0.0	10,825	37.5	123	0.4	10,761	37.3	352	1.2	2,451	8.5	339	1.2	0	0.0	23	0.1	28,843	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 8 of 11).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1985	6/20	367	M	0	0.0	0	0.0	1,121	17.2	0	0.0	1,675	25.7	20	0.3	926	14.2	0	0.0	143	2.2	0	0.0	0	0.0	0	0.0	3,885	59.6
	(6/20)		F	0	0.0	0	0.0	248	3.8	0	0.0	893	13.7	0	0.0	1,193	18.3	0	0.0	300	4.6	0	0.0	0	0.0	0	0.0	2,634	40.4
			Subtotal	0	0.0	0	0.0	1,369	21.0	0	0.0	2,568	39.4	20	0.3	2,119	32.5	0	0.0	443	6.8	0	0.0	0	0.0	0	0.0	6,519	100.0
	6/24	91	M	0	0.0	0	0.0	2,968	28.5	0	0.0	1,031	9.9	0	0.0	1,375	13.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,373	51.6
	(6/24)		F	0	0.0	0	0.0	802	7.7	0	0.0	916	8.8	0	0.0	2,864	27.5	0	0.0	458	4.4	0	0.0	0	0.0	0	0.0	5,040	48.4
			Subtotal	0	0.0	0	0.0	3,770	36.2	0	0.0	1,947	18.7	0	0.0	4,238	40.7	0	0.0	458	4.4	0	0.0	0	0.0	0	0.0	10,413	100.0
	6/27	88	M	0	0.0	0	0.0	2,892	32.9	0	0.0	2,497	28.4	0	0.0	1,002	11.4	0	0.0	97	1.1	0	0.0	0	0.0	0	0.0	6,488	73.8
	(6/27)		F	0	0.0	0	0.0	501	5.7	0	0.0	703	8.0	0	0.0	897	10.2	0	0.0	202	2.3	0	0.0	0	0.0	0	0.0	2,303	26.2
			Subtotal	0	0.0	0	0.0	3,393	38.6	0	0.0	3,200	36.4	0	0.0	1,899	21.6	0	0.0	299	3.4	0	0.0	0	0.0	0	0.0	8,791	100.0
	7/1	74	M	0	0.0	0	0.0	1,912	31.0	0	0.0	1,332	21.6	86	1.4	752	12.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,083	66.2
	(7/1)		F	0	0.0	0	0.0	167	2.7	0	0.0	419	6.8	0	0.0	1,412	22.9	0	0.0	86	1.4	0	0.0	0	0.0	0	0.0	2,085	33.8
			Subtotal	0	0.0	0	0.0	2,079	33.7	0	0.0	1,752	28.4	86	1.4	2,165	35.1	0	0.0	86	1.4	0	0.0	0	0.0	0	0.0	6,168	100.0
	7/4	17	M	0	0.0	0	0.0	1,883	49.9	0	0.0	944	25.0	0	0.0	472	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,298	87.4
	(7/4)		F	0	0.0	0	0.0	238	6.3	0	0.0	236	6.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	476	12.6
			Subtotal	0	0.0	0	0.0	2,121	56.2	0	0.0	1,181	31.3	0	0.0	472	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,774	100.0
	Season	637	M	0	0.0	0	0.0	10,777	30.2	0	0.0	7,479	21.0	106	0.3	4,527	12.7	0	0.0	240	0.7	0	0.0	0	0.0	0	0.0	23,128	64.8
			F	0	0.0	0	0.0	1,955	5.5	0	0.0	3,170	8.9	0	0.0	6,366	17.8	0	0.0	1,047	2.9	0	0.0	0	0.0	0	0.0	12,537	35.2
			Total	0	0.0	0	0.0	12,731	35.7	0	0.0	10,649	29.9	106	0.3	10,892	30.5	0	0.0	1,287	3.6	0	0.0	0	0.0	0	0.0	35,665	100.0
1986	Season	142	M	0	0.0	382	2.1	2,181	12.0	0	0.0	7,668	42.2	0	0.0	1,799	9.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12,029	66.2
			F	0	0.0	0	0.0	127	0.7	0	0.0	2,308	12.7	0	0.0	2,689	14.8	0	0.0	890	4.9	0	0.0	127	0.7	0	0.0	6,142	33.8
			Total	0	0.0	382	2.1	2,308	12.7	0	0.0	9,976	54.9	0	0.0	4,488	24.7	0	0.0	890	4.9	0	0.0	127	0.7	0	0.0	18,171	100.0
1987	6/18	550	M	0	0.0	0	0.0	15,026	45.7	0	0.0	4,242	12.9	0	0.0	6,313	19.2	0	0.0	164	0.5	0	0.0	0	0.0	0	0.0	25,745	78.3
	Season		F	0	0.0	0	0.0	526	1.6	0	0.0	888	2.7	0	0.0	5,425	16.5	0	0.0	296	0.9	0	0.0	0	0.0	0	0.0	7,135	21.7
			Total	0	0.0	0	0.0	15,552	47.3	0	0.0	5,129	15.6	0	0.0	11,738	35.7	0	0.0	460	1.4	0	0.0	0	0.0	0	0.0	32,880	100.0
1988	Season	646	M	0	0.0	0	0.0	13,465	25.0	0	0.0	14,758	27.4	0	0.0	3,339	6.2	0	0.0	754	1.4	0	0.0	0	0.0	0	0.0	32,316	60.0
			F	0	0.0	0	0.0	1,777	3.3	0	0.0	10,987	20.4	0	0.0	5,925	11.0	0	0.0	2,855	5.3	0	0.0	0	0.0	0	0.0	21,544	40.0
			Total	0	0.0	0	0.0	15,242	28.3	0	0.0	25,745	47.8	0	0.0	9,264	17.2	0	0.0	3,609	6.7	0	0.0	0	0.0	0	0.0	53,860	100.0
1989	6/19	147	M	0	0.0	0	0.0	2,375	25.8	0	0.0	1,187	12.9	129	1.4	2,062	22.4	377	4.1	0	0.0	249	2.7	0	0.0	0	0.0	6,378	69.3
	(6/19)		F	0	0.0	0	0.0	129	1.4	0	0.0	377	4.1	64	0.7	1,813	19.7	0	0.0	129	1.4	249	2.7	0	0.0	64	0.7	2,826	30.7
			Subtotal	0	0.0	0	0.0	2,503	27.2	0	0.0	1,565	17.0	193	2.1	3,875	42.1	377	4.1	129	1.4	497	5.4	0	0.0	64	0.7	9,204	100.0
	6/23, 26, 30;	211	M	0	0.0	0	0.0	7,875	24.2	0	0.0	5,076	15.6	781	2.4	3,384	10.4	456	1.4	781	2.4	163	0.5	0	0.0	0	0.0	18,516	56.9
	7/3, 5		F	0	0.0	0	0.0	3,710	11.4	0	0.0	3,384	10.4	618	1.9	4,458	13.7	163	0.5	1,399	4.3	293	0.9	0	0.0	0	0.0	14,025	43.1
	(6/23, 26, 30; 7/3, 5, 8, 11, 14, 18)		Subtotal	0	0.0	0	0.0	11,585	35.6	0	0.0	8,461	26.0	1,399	4.3	7,842	24.1	618	1.9	2,180	6.7	456	1.4	0	0.0	0	0.0	32,541	100.0
	Season	358	M	0	0.0	0	0.0	10,250	24.6	0	0.0	6,264	15.0	910	2.2	5,446	13.0	833	2.0	781	1.9	411	1.0	0	0.0	0	0.0	24,894	59.6
			F	0	0.0	0	0.0	3,839	9.2	0	0.0	3,762	9.0	683	1.6	6,271	15.0	163	0.4	1,526	3.7	541	1.3	0	0.0	64	0.2	16,851	40.4
			Total	0	0.0	0	0.0	14,088	33.7	0	0.0	10,025	24.0	1,593	3.8	11,717	28.1	996	2.4	2,309	5.5	953	2.3	0	0.0	64	0.2	41,745	100.0
1990	6/20, 25	256	M	0	0.0	0	0.0	15,412	47.1	0	0.0	9,456	28.9	0	0.0	2,552	7.8	0	0.0	524	1.6	0	0.0	0	0.0	0	0.0	27,944	85.4
	(6/20, 25)		F	0	0.0	0	0.0	262	0.8	0	0.0	2,061	6.3	0	0.0	2,061	6.3	0	0.0	393	1.2	0	0.0	0	0.0	0	0.0	4,777	14.6
			Subtotal	0	0.0	0	0.0	15,673	47.9	0	0.0	11,518	35.2	0	0.0	4,614	14.1	0	0.0	916	2.8	0	0.0	0	0.0	0	0.0	32,721	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 9 of 11).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1990	6/29; 7/5, 9	152	M	0	0.0	0	0.0	5,672	29.6	0	0.0	6,304	32.9	0	0.0	2,146	11.2	0	0.0	498	2.6	0	0.0	0	0.0	0	0.0	14,621	76.3
(cont.)	(6/29; 7/5, 9, 14)		F	0	0.0	0	0.0	134	0.7	0	0.0	1,763	9.2	0	0.0	2,261	11.8	0	0.0	383	2.0	0	0.0	0	0.0	0	0.0	4,541	23.7
			Subtotal	0	0.0	0	0.0	5,806	30.3	0	0.0	8,067	42.1	0	0.0	4,407	23.0	0	0.0	881	4.6	0	0.0	0	0.0	0	0.0	19,162	100.0
	Season	408	M	0	0.0	0	0.0	21,084	40.6	0	0.0	15,761	30.4	0	0.0	4,698	9.1	0	0.0	1,022	2.0	0	0.0	0	0.0	0	0.0	42,564	82.0
			F	0	0.0	0	0.0	396	0.8	0	0.0	3,824	7.4	0	0.0	4,323	8.3	0	0.0	776	1.5	0	0.0	0	0.0	0	0.0	9,319	18.0
			Total	0	0.0	0	0.0	21,479	41.4	0	0.0	19,585	37.7	0	0.0	9,021	17.4	0	0.0	1,798	3.5	0	0.0	0	0.0	0	0.0	51,883	100.0
1991	6/20	155	M	0	0.0	0	0.0	4,020	29.1	0	0.0	2,942	21.3	539	3.9	981	7.1	539	3.9	0	0.0	0	0.0	0	0.0	83	0.6	9,103	65.9
	(6/20)		F	0	0.0	0	0.0	262	1.9	0	0.0	1,699	12.3	83	0.6	1,961	14.2	0	0.0	359	2.6	262	1.9	0	0.0	83	0.6	4,710	34.1
			Subtotal	0	0.0	0	0.0	4,282	31.0	0	0.0	4,641	33.6	622	4.5	2,942	21.3	539	3.9	359	2.6	262	1.9	0	0.0	166	1.2	13,813	100.0
	6/24	129	M	0	0.0	0	0.0	4,477	35.5	0	0.0	2,157	17.1	0	0.0	1,173	9.3	0	0.0	101	0.8	101	0.8	0	0.0	0	0.0	8,009	63.5
	(6/24)		F	0	0.0	0	0.0	202	1.6	0	0.0	1,665	13.2	0	0.0	2,535	20.1	0	0.0	202	1.6	0	0.0	0	0.0	0	0.0	4,603	36.5
			Subtotal	0	0.0	0	0.0	4,679	37.1	0	0.0	3,821	30.3	0	0.0	3,708	29.4	0	0.0	303	2.4	101	0.8	0	0.0	0	0.0	12,612	100.0
	7/6	71	M	0	0.0	0	0.0	2,275	28.2	0	0.0	1,702	21.1	0	0.0	912	11.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,889	60.5
	(7/1, 6)		F	0	0.0	0	0.0	0	0.0	0	0.0	565	7.0	0	0.0	2,275	28.2	0	0.0	339	4.2	0	0.0	0	0.0	0	0.0	3,179	39.4
			Subtotal	0	0.0	0	0.0	2,275	28.2	0	0.0	2,267	28.1	0	0.0	3,187	39.5	0	0.0	339	4.2	0	0.0	0	0.0	0	0.0	8,068	100.0
	7/13	44	M	0	0.0	0	0.0	249	27.5	0	0.0	203	22.5	0	0.0	103	11.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	555	61.4
			F	0	0.0	0	0.0	81	9.0	0	0.0	61	6.8	0	0.0	186	20.6	0	0.0	20	2.2	0	0.0	0	0.0	0	0.0	349	38.6
			Subtotal	0	0.0	0	0.0	330	36.5	0	0.0	265	29.3	0	0.0	289	32.0	0	0.0	20	2.2	0	0.0	0	0.0	0	0.0	904	100.0
	7/18	21	M	63	4.8	0	0.0	496	37.9	0	0.0	124	9.5	63	4.8	124	9.5	0	0.0	0	0.0	63	4.8	0	0.0	0	0.0	933	71.3
	(7/18, 22, 25)		F	0	0.0	0	0.0	63	4.8	0	0.0	63	4.8	0	0.0	187	14.3	0	0.0	0	0.0	63	4.8	0	0.0	0	0.0	376	28.7
			Subtotal	63	4.8	0	0.0	559	42.7	0	0.0	187	14.3	63	4.8	312	23.8	0	0.0	0	0.0	126	9.6	0	0.0	0	0.0	1,309	100.0
	Season	420	M	63	0.2	0	0.0	11,517	31.4	0	0.0	7,129	19.4	602	1.6	3,293	9.0	539	1.5	101	0.3	164	0.4	0	0.0	83	0.2	23,489	64.0
			F	0	0.0	0	0.0	608	1.7	0	0.0	4,053	11.0	83	0.2	7,145	19.5	0	0.0	920	2.5	325	0.9	0	0.0	83	0.2	13,217	36.0
			Total	63	0.2	0	0.0	12,125	33.0	0	0.0	11,182	30.5	684	1.9	10,438	28.4	539	1.5	1,021	2.8	489	1.3	0	0.0	166	0.5	36,706	100.0
1992	6/18	194	M	0	0.0	98	1.0	3,649	37.4	0	0.0	3,015	30.9	49	0.5	751	7.7	0	0.0	49	0.5	0	0.0	0	0.0	0	0.0	7,610	78.0
	(6/18)		F	0	0.0	0	0.0	98	1.0	0	0.0	449	4.6	0	0.0	1,454	14.9	0	0.0	146	1.5	0	0.0	0	0.0	0	0.0	2,146	22.0
			Subtotal	0	0.0	98	1.0	3,746	38.4	0	0.0	3,463	35.5	49	0.5	2,205	22.6	0	0.0	195	2.0	0	0.0	0	0.0	0	0.0	9,756	100.0
	6/22	191	M	0	0.0	306	2.1	6,575	45.1	0	0.0	2,901	19.9	0	0.0	1,064	7.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10,846	74.4
	(6/22)		F	0	0.0	0	0.0	379	2.6	0	0.0	1,297	8.9	0	0.0	1,983	13.6	0	0.0	73	0.5	0	0.0	0	0.0	0	0.0	3,732	25.6
			Subtotal	0	0.0	306	2.1	6,954	47.7	0	0.0	4,198	28.8	0	0.0	3,047	20.9	0	0.0	73	0.5	0	0.0	0	0.0	0	0.0	14,578	100.0
	6/25	137	M	0	0.0	63	0.7	3,953	44.0	0	0.0	1,770	19.7	0	0.0	916	10.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,702	74.6
	(6/25)		F	0	0.0	0	0.0	0	0.0	0	0.0	323	3.6	0	0.0	1,833	20.4	0	0.0	63	0.7	63	0.7	0	0.0	0	0.0	2,282	25.4
			Subtotal	0	0.0	63	0.7	3,953	44.0	0	0.0	2,093	23.3	0	0.0	2,749	30.6	0	0.0	63	0.7	63	0.7	0	0.0	0	0.0	8,984	100.0
	6/29	195	M	0	0.0	57	0.5	5,770	50.8	0	0.0	2,385	21.0	57	0.5	1,102	9.7	0	0.0	57	0.5	0	0.0	0	0.0	0	0.0	9,428	83.0
	(6/29, 7/6)		F	0	0.0	0	0.0	0	0.0	0	0.0	239	2.1	0	0.0	1,636	14.4	0	0.0	57	0.5	0	0.0	0	0.0	0	0.0	1,931	17.0
			Subtotal	0	0.0	57	0.5	5,770	50.8	0	0.0	2,624	23.1	57	0.5	2,738	24.1	0	0.0	114	1.0	0	0.0	0	0.0	0	0.0	11,359	100.0
	Season	717	M	0	0.0	523	1.2	19,947	44.6	0	0.0	10,071	22.5	106	0.2	3,834	8.6	0	0.0	106	0.2	0	0.0	0	0.0	0	0.0	34,586	77.4
			F	0	0.0	0	0.0	477	1.1	0	0.0	2,308	5.2	0	0.0	6,905	15.5	0	0.0	339	0.8	63	0.1	0	0.0	0	0.0	10,091	22.6
			Total	0	0.0	523	1.2	20,423	45.7	0	0.0	12,379	27.7	106	0.2	10,738	24.0	0	0.0	444	1.0	63	0.1	0	0.0	0	0.0	44,677	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 10 of 11).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1993	6/25	102	M	0	0.0	0	0.0	5,368	61.6	0	0.0	1,874	21.5	0	0.0	418	4.8	418	4.8	0	0.0	87	1.0	0	0.0	0	0.0	8,165	93.7
	Season		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	418	4.8	0	0.0	44	0.5	0	0.0	0	0.0	87	1.0	549	6.3
			Total	0	0.0	0	0.0	5,368	61.6	0	0.0	1,874	21.5	0	0.0	837	9.6	418	4.8	44	0.5	87	1.0	0	0.0	87	1.0	8,714	100.0
1994	6/24	208	M	0	0.0	81	0.5	2,722	16.8	0	0.0	6,594	40.7	308	1.9	2,414	14.9	81	0.5	162	1.0	0	0.0	0	0.0	0	0.0	12,361	76.3
	Season		F	0	0.0	0	0.0	81	0.5	0	0.0	1,555	9.6	0	0.0	1,798	11.1	81	0.5	162	1.0	162	1.0	0	0.0	0	0.0	3,840	23.7
			Total	0	0.0	81	0.5	2,803	17.3	0	0.0	8,149	50.3	308	1.9	4,212	26.0	162	1.0	324	2.0	162	1.0	0	0.0	0	0.0	16,201	100.0
1995	6/22	197	M	0	0.0	34	0.5	2,593	37.6	0	0.0	910	13.2	0	0.0	1,365	19.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,902	71.1
	(6/22)		F	0	0.0	0	0.0	69	1.0	0	0.0	207	3.0	0	0.0	1,717	24.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,993	28.9
			Subtotal	0	0.0	34	0.5	2,661	38.6	0	0.0	1,117	16.2	0	0.0	3,082	44.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,895	100.0
	6/26	189	M	0	0.0	0	0.0	2,909	30.7	0	0.0	1,250	13.2	0	0.0	2,159	22.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,317	66.7
	(6/26)		F	0	0.0	0	0.0	199	2.1	0	0.0	398	4.2	0	0.0	2,453	25.9	0	0.0	104	1.1	0	0.0	0	0.0	0	0.0	3,154	33.3
			Subtotal	0	0.0	0	0.0	3,108	32.8	0	0.0	1,648	17.4	0	0.0	4,612	48.7	0	0.0	104	1.1	0	0.0	0	0.0	0	0.0	9,471	100.0
	6/29	107	M	0	0.0	0	0.0	1,759	35.5	0	0.0	649	13.1	0	0.0	926	18.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,334	67.3
	(6/29)		F	0	0.0	0	0.0	0	0.0	0	0.0	184	3.7	0	0.0	1,389	28.0	0	0.0	46	0.9	0	0.0	0	0.0	0	0.0	1,619	32.7
			Subtotal	0	0.0	0	0.0	1,759	35.5	0	0.0	833	16.8	0	0.0	2,315	46.7	0	0.0	46	0.9	0	0.0	0	0.0	0	0.0	4,953	100.0
	7/3	85	M	0	0.0	0	0.0	2,060	30.6	0	0.0	792	11.8	0	0.0	1,822	27.1	0	0.0	79	1.2	0	0.0	0	0.0	0	0.0	4,754	70.6
	(7/3, 6, 10, 14, 18, 21;		F	0	0.0	0	0.0	0	0.0	0	0.0	79	1.2	0	0.0	1,901	28.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,980	29.4
	8/4, 8, 12, 16, 19, 22, 26, 29; 9/1)		Subtotal	0	0.0	0	0.0	2,060	30.6	0	0.0	872	12.9	0	0.0	3,723	55.3	0	0.0	79	1.2	0	0.0	0	0.0	0	0.0	6,735	100.0
	Season	578	M	0	0.0	34	0.1	9,318	33.2	0	0.0	3,601	12.8	0	0.0	6,273	22.4	0	0.0	79	0.3	0	0.0	0	0.0	0	0.0	19,307	68.8
			F	0	0.0	0	0.0	268	1.0	0	0.0	868	3.1	0	0.0	7,459	26.6	0	0.0	150	0.5	0	0.0	0	0.0	0	0.0	8,745	31.2
			Total	0	0.0	34	0.1	9,586	34.2	0	0.0	4,470	15.9	0	0.0	13,733	49.0	0	0.0	229	0.8	0	0.0	0	0.0	0	0.0	28,054	100.0
1996	6/17	205	M	0	0.0	10	0.5	808	39.5	0	0.0	738	36.1	0	0.0	150	7.3	10	0.5	50	2.4	0	0.0	0	0.0	0	0.0	1,766	86.3
	(6/17)		F	0	0.0	0	0.0	0	0.0	0	0.0	60	2.9	0	0.0	190	9.3	0	0.0	30	1.5	0	0.0	0	0.0	0	0.0	279	13.7
			Subtotal	0	0.0	10	0.5	808	39.5	0	0.0	798	39.0	0	0.0	339	16.6	10	0.5	80	3.9	0	0.0	0	0.0	0	0.0	2,045	100.0
	6/20	203	M	0	0.0	0	0.0	484	23.6	0	0.0	826	40.4	0	0.0	222	10.8	0	0.0	101	4.9	0	0.0	0	0.0	0	0.0	1,633	79.8
	(6/20)		F	0	0.0	0	0.0	10	0.5	0	0.0	141	6.9	0	0.0	171	8.4	0	0.0	91	4.4	0	0.0	0	0.0	0	0.0	413	20.2
			Subtotal	0	0.0	0	0.0	494	24.1	0	0.0	968	47.3	0	0.0	393	19.2	0	0.0	191	9.4	0	0.0	0	0.0	0	0.0	2,046	100.0
	6/24	29	M	0	0.0	0	0.0	184	27.6	0	0.0	276	41.4	0	0.0	23	3.4	0	0.0	23	3.4	0	0.0	0	0.0	0	0.0	505	75.9
	(6/24)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	46	6.9	0	0.0	115	17.2	0	0.0	0	0.0	0	0.0	161	24.1
			Subtotal	0	0.0	0	0.0	184	27.6	0	0.0	276	41.4	0	0.0	69	10.3	0	0.0	138	20.7	0	0.0	0	0.0	0	0.0	666	100.0
	7/2	73	M	0	0.0	7	1.4	97	17.8	0	0.0	194	35.6	0	0.0	60	11.0	0	0.0	15	2.7	0	0.0	0	0.0	0	0.0	373	68.5
	(7/2)		F	0	0.0	0	0.0	0	0.0	0	0.0	7	1.4	0	0.0	112	20.5	0	0.0	45	8.2	0	0.0	7	1.4	0	0.0	172	31.5
			Subtotal	0	0.0	7	1.4	97	17.8	0	0.0	202	37.0	0	0.0	172	31.5	0	0.0	60	11.0	0	0.0	7	1.4	0	0.0	545	100.0
	7/5	29	M	0	0.0	0	0.0	109	34.5	0	0.0	76	24.1	0	0.0	65	20.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	251	79.3
	(7/5)		F	0	0.0	0	0.0	0	0.0	0	0.0	22	6.9	0	0.0	33	10.3	0	0.0	11	3.4	0	0.0	0	0.0	0	0.0	65	20.7
			Subtotal	0	0.0	0	0.0	109	34.5	0	0.0	98	31.0	0	0.0	98	31.0	0	0.0	11	3.4	0	0.0	0	0.0	0	0.0	316	100.0

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Table 17. Age and sex of chinook salmon from the District 1 commercial fishery (page 11 of 11).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1996	7/8	23	M	0	0.0	0	0.0	46	26.1	0	0.0	70	39.1	0	0.0	15	8.7	0	0.0	15	8.7	0	0.0	0	0.0	0	0.0	147	82.6
(cont.)	(7/8)		F	0	0.0	0	0.0	0	0.0	0	0.0	8	4.3	0	0.0	23	13.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31	17.4
			Subtotal	0	0.0	0	0.0	46	26.1	0	0.0	77	43.5	0	0.0	39	21.7	0	0.0	15	8.7	0	0.0	0	0.0	0	0.0	178	100.0
	7/12	30	M	0	0.0	0	0.0	196	16.7	0	0.0	470	40.0	0	0.0	157	13.3	0	0.0	39	3.3	0	0.0	0	0.0	0	0.0	862	73.3
	(7/12, 16, 19, 22, 25,		F	0	0.0	0	0.0	0	0.0	0	0.0	78	6.7	0	0.0	118	10.0	0	0.0	118	10.0	0	0.0	0	0.0	0	0.0	314	26.7
	29, 31, 8/3, 7, 10, 13,		Subtotal	0	0.0	0	0.0	196	16.7	0	0.0	549	46.7	0	0.0	274	23.3	0	0.0	157	13.3	0	0.0	0	0.0	0	0.0	1,176	100.0
	16, 20, 23, 28)																												
	Season	592	M	0	0.0	17	0.3	1,924	27.6	0	0.0	2,651	38.0	0	0.0	692	9.9	10	0.1	243	3.5	0	0.0	0	0.0	0	0.0	5,537	79.4
			F	0	0.0	0	0.0	10	0.1	0	0.0	316	4.5	0	0.0	692	9.9	0	0.0	409	5.9	0	0.0	7	0.1	0	0.0	1,435	20.6
			Total	0	0.0	17	0.3	1,934	27.7	0	0.0	2,967	42.6	0	0.0	1,384	19.9	10	0.1	652	9.4	0	0.0	7	0.1	0	0.0	6,972	100.0
1997	6/23 [c]	162	M	0	0.0	0	0.0	5,479	52.5	0	0.0	1,680	16.1	0	0.0	1,346	12.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,505	81.5
	Season		F	0	0.0	0	0.0	0	0.0	0	0.0	63	0.6	0	0.0	1,805	17.3	0	0.0	63	0.6	0	0.0	0	0.0	0	0.0	1,931	18.5
			Total	0	0.0	0	0.0	5,479	52.5	0	0.0	1,743	16.7	0	0.0	3,152	30.2	0	0.0	63	0.6	0	0.0	0	0.0	0	0.0	10,436	100.0
	Grand Total [d]	3,790	M	0	0.0	194	0.1	8,633	3.2	12	0.0	76,334	28.3	0	0.0	62,884	23.3	247	0.1	6,520	2.0	271	0.1	0	0.0	23	0.0	154,117	57.2
	(Unrestricted		F	0	0.0	0	0.0	503	0.2	0	0.0	21,137	7.8	0	0.0	85,033	31.6	226	0.1	8,214	3.0	247	0.1	0	0.0	15	0.0	115,375	42.8
	Mesh Size)		Total	0	0.0	194	0.1	9,136	3.4	12	0.0	97,471	36.2	0	0.0	147,918	54.9	473	0.2	13,733	5.1	518	0.2	0	0.0	38	0.0	269,492	100.0
	Grand Total [d]	6,124	M	63	0.0	1,830	0.4	150,640	33.1	0	0.0	110,247	24.2	2,153	0.5	52,300	11.5	1,933	0.4	4,100	0.9	662	0.1	0	0.0	83	0.0	324,012	71.2
	(Restricted		F	0	0.0	0	0.0	11,006	2.4	0	0.0	38,176	8.4	766	0.2	67,426	14.8	244	0.1	11,975	2.6	1,092	0.2	135	0.0	234	0.1	131,052	28.8
	Mesh Size) [f]		Total	63	0.0	1,830	0.4	161,645	35.5	0	0.0	148,422	32.6	2,919	0.6	119,726	26.3	2,177	0.5	16,076	3.5	1,754	0.4	135	0.0	317	0.1	455,066	100.0
	Grand Total [d]	9,914	M	63	0.0	2,024	0.3	159,273	22.0	12	0.0	186,580	25.8	2,153	0.3	115,184	15.9	2,180	0.3	9,620	1.3	933	0.1	0	0.0	106	0.0	478,129	66.0
	(Restricted & Unrestricted		F	0	0.0	0	0.0	11,509	1.6	0	0.0	59,313	8.2	766	0.1	152,459	21.0	469	0.1	20,189	2.8	1,339	0.2	135	0.0	249	0.0	246,428	34.0
	Mesh Size) [f]		Total	63	0.0	2,024	0.3	170,782	23.6	12	0.0	245,893	33.9	2,919	0.4	267,644	36.9	2,650	0.4	29,809	4.1	2,272	0.3	135	0.0	355	0.0	724,558	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] Sex of all fish was confirmed by visual inspection of gonads.
[d] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.
[f] The years 1975, 1976 and 1978 are excluded because no samples were collected from chinook salmon caught during the portion of the season with restricted mesh size.

Table 18. Mean length (mm) of chinook salmon from the District 1 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/22 (6/22)	M	Mean Length		412	551		717		827					
			Std. Error		-	6		16		19					
			Range		412- 412	445- 859		544- 912		578- 1075					
			Sample Size	0	1	74	0	26	0	38	0	0	0	0	0
		F	Mean Length			653		735		837					
			Std. Error			59		35		8					
			Range			594-712		610- 824		704- 955					
			Sample Size	0	0	2	0	6	0	49	0	0	0	0	0
	6/26 (6/26)	M	Mean Length			541		718		829					
			Std. Error			6		16		12					
			Range			458- 657		538- 937		654- 975					
			Sample Size	0	0	58	0	25	0	43	0	0	0	0	0
		F	Mean Length			626		752		870		857			
			Std. Error			9		35		8		62			
			Range			608- 645		659- 897		735- 962		795- 919			
			Sample Size	0	0	4	0	8	0	49	0	2	0	0	0
	6/29 (6/29)	M	Mean Length			556		677		828					
			Std. Error			11		17		24					
			Range			478- 849		565- 780		595- 990					
			Sample Size	0	0	38	0	14	0	20	0	0	0	0	0
		F	Mean Length					682		853		871			
			Std. Error					25		9		0			
			Range					617- 739		759- 955		871- 871			
			Sample Size	0	0	0	0	4	0	30	0	1	0	0	0
	7/3 (7/3, 6, 10, 14, 18, 21; 8/4, 8, 12, 16, 19, 22, 26, 29; 9/1)	M	Mean Length			551		754		842		1010			
			Std. Error			9		27		15		-			
			Range			452- 648		602- 852		715- 942		1010- 1010			
			Sample Size	0	0	26	0	10	0	23	0	1	0	0	0
		F	Mean Length					912		857					
			Std. Error					-		9					
			Range					912- 912		786- 936					
			Sample Size	0	0	0	0	1	0	24	0	0	0	0	0
	Season	M	Mean Length		412	549		718		832		1010			
			Range		412- 412	445- 859		538- 937		578- 1075		1010- 1010			
			Sample Size	0	1	196	0	75	0	124	0	1	0	0	0
		F	Mean Length			633		747		856		861			
			Range			594- 712		610- 912		704- 955		795- 919			
			Sample Size	0	0	6	0	19	0	152	0	3	0	0	0

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Table 18. Mean length (mm) of chinook salmon from the District 1 commercial fishery (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996	6/17 (6/17)	M	Mean Length		400	533		681		815	734	878			
			Std. Error		-	4		7		16	-	18			
			Range		400- 400	455- 640		563- 828		700- 895	34- 734	825- 930			
			Sample Size	0	1	81	0	74	0	15	1	5	0	0	0
		F	Mean Length					757		803		843			
			Std. Error					28		9		43			
			Range					645- 819		737- 884		764- 910			
			Sample Size	0	0	0	0	6	0	19	0	3	0	0	0
	6/20 (6/20)	M	Mean Length			528		673		785		873			
			Std. Error			6		7		15		29			
			Range			462- 606		519- 842		639- 941		728- 983			
			Sample Size	0	0	48	0	81	0	22	0	10	0	0	0
		F	Mean Length			608		722		847		871			
			Std. Error			-		20		15		23			
			Range			608- 608		602- 839		751- 936		720- 941			
			Sample Size	0	0	1	0	14	0	17	0	9	0	0	0
	6/24 (6/24)	M	Mean Length			539		643		845		881			
			Std. Error			17		23		-		22			
			Range			476- 603		522- 740		845- 845		825- 945			
			Sample Size	0	0	7	0	12	0	1	0	5	0	0	0
		F	Mean Length							824		871			
			Std. Error							4		-			
			Range							820- 828		871- 871			
			Sample Size	0	0	0	0	0	0	2	0	1	0	0	0
	7/2 (7/2)	M	Mean Length		365	514		689		779		871			
			Std. Error		-	12		18		45		24			
			Range		365- 365	452- 599		520- 867		627- 924		847- 894			
			Sample Size	0	1	13	0	26	0	7	0	2	0	0	0
		F	Mean Length					867		844		870		875	
			Std. Error					-		11		30		-	
			Range					867- 867		770- 918		774- 950		875- 875	
			Sample Size	0	0	0	0	1	0	15	0	6	0	1	0
	7/5 (7/5)	M	Mean Length			534		720		868					
			Std. Error			11		17		25					
			Range			479- 581		672- 779		766- 938					
			Sample Size	0	0	10	0	6	0	6	0	0	0	0	0
		F	Mean Length					811		882		799			
			Std. Error					2		48		-			
			Range					809- 812		824- 977		799- 799			
			Sample Size	0	0	0	0	2	0	3	0	1	0	0	0

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Table 18. Mean length (mm) of chinook salmon from the District 1 commercial fishery (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1996 (cont.)	7/8 (7/8)	M	Mean Length			518		686		762		890			
			Std. Error			20		29		58		70			
			Range			460- 570		578- 806		704- 820		820- 960			
			Sample Size	0	0	5	0	9	0	2	0	2	0	0	0
		F	Mean Length					897		800					
			Std. Error					-		24					
			Range					897- 897		761- 845					
			Sample Size	0	0	0	0	1	0	3	0	0	0	0	0
	7/12 (7/12, 16, 19, 22, 25, 29, 31, 8/3, 7, 10, 13, 16, 20, 23, 26)	M	Mean Length			571		699		803		857			
			Std. Error			30		17		26		-			
			Range			498- 641		593- 772		775- 880		857- 857			
			Sample Size	0	0	4	0	12	0	4	0	1	0	0	0
		F	Mean Length					862		811		903			
			Std. Error					5		26		7			
			Range					857- 866		785- 862		888- 910			
			Sample Size	0	0	0	0	2	0	3	0	3	0	0	0
	Season	M	Mean Length		385	535		680		804	734	873			
			Range		365- 400	452- 641		519- 867		627- 941	34- 734	728- 983			
			Sample Size	0	2	168	0	220	0	57	1	25	0	0	0
		F	Mean Length			608		777		827		876		875	
			Range			608- 608		602- 897		737- 977		720- 950		875- 875	
			Sample Size	0	0	1	0	26	0	62	0	23	0	1	0
1997	6/23 Season	M	Mean Length			563		696		831					
			Std. Error			5		13		17					
			Range			457- 680		567- 820		686- 962					
			Sample Size	0	0	84	0	26	0	21	0	0	0	0	0
		F	Mean Length					840		846		952			
			Std. Error					-		8		-			
			Range					840- 840		787- 932		952- 952			
			Sample Size	0	0	0	0	1	0	28		1	0	0	0
	Grand Total [b]	M	Mean Length		399	549		698		822	734	942			
			Range		365- 412	445- 849		519- 937		578- 1075	34- 734	728- 1010			
			Sample Size	0	3	448	0	321	0	202	1	26	0	0	0
		F	Mean Length			621		788		843		896		875	
			Range			594- 712		692- 912		704- 977		720- 952		875- 875	
			Sample Size	0	0	7	0	46	0	242	0	27	0	1	0

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 19. Age and sex of chinook salmon from the District 4 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1990	6/14	130	M	0	0.0	0	0.0	625	12.3	0	0.0	1,717	33.8	0	0.0	701	13.8	40	0.8	118	2.3	40	0.8	40	0.8	0	0.0	3,280	64.6
	(6/14)		F	0	0.0	0	0.0	117	2.3	0	0.0	391	7.7	0	0.0	625	12.3	0	0.0	549	10.8	40	0.8	40	0.8	40	0.8	1,800	35.4
			Subtotal	0	0.0	0	0.0	742	14.6	0	0.0	2,108	41.5	0	0.0	1,326	26.1	0	0.0	666	13.1	79	1.6	79	1.6	40	0.8	5,080	100.0
	6/18	88	M	0	0.0	0	0.0	2,581	21.6	0	0.0	2,713	22.7	0	0.0	1,625	13.6	0	0.0	406	3.4	0	0.0	0	0.0	0	0.0	7,326	61.3
	(6/18, 21, 25)		F	0	0.0	0	0.0	681	5.7	0	0.0	1,494	12.5	0	0.0	1,769	14.8	0	0.0	681	5.7	0	0.0	0	0.0	0	0.0	4,625	38.7
			Subtotal	0	0.0	0	0.0	3,263	27.3	0	0.0	4,207	35.2	0	0.0	3,394	28.4	0	0.0	1,088	9.1	0	0.0	0	0.0	0	0.0	11,951	100.0
	7/2	131	M	0	0.0	0	0.0	1,539	14.5	0	0.0	2,186	20.6	0	0.0	1,866	17.6	0	0.0	645	6.1	0	0.0	83	0.8	0	0.0	6,319	59.5
	(7/2, 5, 7, 9, 11, 13, 16, 19- 21, 23- 26, 30, 31; 8/1- 3, 6, 8, 13, 16, 18, 20, 23, 27)		F	0	0.0	0	0.0	488	4.6	0	0.0	1,136	10.7	0	0.0	2,027	19.1	0	0.0	562	5.3	0	0.0	83	0.8	0	0.0	4,296	40.5
			Subtotal	0	0.0	0	0.0	2,027	19.1	0	0.0	3,322	31.3	0	0.0	3,893	36.7	0	0.0	1,208	11.4	0	0.0	166	1.6	0	0.0	10,613	100.0
	Season	349	M	0	0.0	0	0.0	4,745	17.2	0	0.0	6,616	23.9	0	0.0	4,192	15.2	40	0.1	1,169	4.2	40	0.1	122	0.4	0	0.0	16,925	61.2
			F	0	0.0	0	0.0	1,286	4.7	0	0.0	3,021	10.9	0	0.0	4,421	16.0	0	0.0	1,792	6.5	40	0.1	122	0.4	40	0.1	10,722	38.8
			Total	0	0.0	0	0.0	6,031	21.8	0	0.0	9,637	34.9	0	0.0	8,613	31.2	0	0.0	2,962	10.7	79	0.3	245	0.9	40	0.1	27,644	100.0
1991	6/20	74	M	0	0.0	0	0.0	457	14.9	0	0.0	827	27.0	0	0.0	622	20.3	42	1.4	42	1.4	0	0.0	0	0.0	0	0.0	1,990	64.9
	(6/13, 20)		F	0	0.0	0	0.0	83	2.7	0	0.0	83	2.7	0	0.0	827	27.0	0	0.0	83	2.7	0	0.0	0	0.0	0	0.0	1,075	35.1
			Subtotal	0	0.0	0	0.0	539	17.6	0	0.0	909	29.7	0	0.0	1,449	47.3	0	0.0	125	4.1	0	0.0	0	0.0	0	0.0	3,064	100.0
	6/24	86	M	0	0.0	0	0.0	416	12.8	0	0.0	416	12.8	0	0.0	868	26.7	0	0.0	75	2.3	0	0.0	0	0.0	0	0.0	1,776	54.6
	(6/24, 27)		F	0	0.0	0	0.0	189	5.8	0	0.0	302	9.3	0	0.0	833	25.6	0	0.0	153	4.7	0	0.0	0	0.0	0	0.0	1,476	45.4
			Subtotal	0	0.0	0	0.0	605	18.6	0	0.0	719	22.1	0	0.0	1,701	52.3	0	0.0	228	7.0	0	0.0	0	0.0	0	0.0	3,252	100.0
	7/1	77	M	0	0.0	0	0.0	77	11.7	0	0.0	171	26.0	0	0.0	136	20.8	0	0.0	34	5.2	0	0.0	0	0.0	0	0.0	418	63.6
	(7/1)		F	0	0.0	0	0.0	9	1.3	0	0.0	60	9.1	0	0.0	128	19.5	0	0.0	43	6.5	0	0.0	0	0.0	0	0.0	239	36.4
			Subtotal	0	0.0	0	0.0	85	13.0	0	0.0	230	35.1	0	0.0	265	40.3	0	0.0	77	11.7	0	0.0	0	0.0	0	0.0	657	100.0
	7/4	39	M	0	0.0	0	0.0	52	10.3	0	0.0	117	23.1	0	0.0	117	23.1	0	0.0	26	5.1	0	0.0	0	0.0	0	0.0	313	61.5
	(7/4)		F	0	0.0	0	0.0	39	7.7	0	0.0	13	2.6	0	0.0	117	23.1	0	0.0	26	5.1	0	0.0	0	0.0	0	0.0	195	38.5
			Subtotal	0	0.0	0	0.0	91	18.0	0	0.0	130	25.7	0	0.0	234	46.2	0	0.0	52	10.2	0	0.0	0	0.0	0	0.0	508	100.0
	7/6	28	M	0	0.0	0	0.0	49	17.9	0	0.0	39	14.3	0	0.0	78	28.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	166	60.8
	(7/6)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	97	35.7	0	0.0	10	3.6	0	0.0	0	0.0	0	0.0	107	39.3
			Subtotal	0	0.0	0	0.0	49	17.9	0	0.0	39	14.3	0	0.0	175	64.3	0	0.0	10	3.6	0	0.0	0	0.0	0	0.0	273	100.0
	7/8	161	M	0	0.0	13	1.2	281	26.1	0	0.0	208	19.3	0	0.0	173	16.1	0	0.0	34	3.1	0	0.0	0	0.0	7	0.6	715	66.4
	(7/8, 11, 13)		F	0	0.0	0	0.0	0	0.0	0	0.0	27	2.5	0	0.0	267	24.8	0	0.0	67	6.2	0	0.0	0	0.0	0	0.0	361	33.5
			Subtotal	0	0.0	13	1.2	281	26.1	0	0.0	235	21.8	0	0.0	440	40.9	0	0.0	100	9.3	0	0.0	0	0.0	7	0.6	1,076	100.0
	7/19	38	M	0	0.0	0	0.0	103	15.8	0	0.0	120	18.4	0	0.0	120	18.4	0	0.0	17	2.6	0	0.0	0	0.0	0	0.0	359	55.3
	(7/15, 17, 19, 22, 24, 26, 29, 31; 8/2, 5, 9, 14, 16, 19, 21, 23, 26, 28; 9/2)		F	0	0.0	0	0.0	0	0.0	0	0.0	68	10.5	0	0.0	205	31.6	0	0.0	17	2.6	0	0.0	0	0.0	0	0.0	291	44.7
			Subtotal	0	0.0	0	0.0	103	15.8	0	0.0	188	28.9	0	0.0	325	50.0	0	0.0	34	5.2	0	0.0	0	0.0	0	0.0	650	100.0
	Season	503	M	0	0.0	13	0.1	1,434	15.1	0	0.0	1,897	20.0	0	0.0	2,115	22.3	42	0.4	228	2.4	0	0.0	0	0.0	7	0.1	5,736	60.5
			F	0	0.0	0	0.0	319	3.4	0	0.0	553	5.8	0	0.0	2,475	26.1	0	0.0	398	4.2	0	0.0	0	0.0	0	0.0	3,745	39.5
			Total	0	0.0	13	0.1	1,753	18.5	0	0.0	2,451	25.8	0	0.0	4,590	48.4	0	0.0	625	6.6	0	0.0	0	0.0	7	0.1	9,480	100.0

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Table 19. Age and sex of chinook salmon from the District 4 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1992	6/15	93	M	0	0.0	0	0.0	462	11.8	0	0.0	337	8.6	0	0.0	337	8.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,135	29.0
	(6/15)		F	0	0.0	0	0.0	630	16.1	0	0.0	1,221	31.2	0	0.0	842	21.5	0	0.0	86	2.2	0	0.0	0	0.0	0	0.0	2,779	71.0
			Total	0	0.0	0	0.0	1,092	27.9	0	0.0	1,558	39.8	0	0.0	1,178	30.1	0	0.0	86	2.2	0	0.0	0	0.0	0	0.0	3,914	100.0
	6/18	88	M	0	0.0	0	0.0	198	10.2	0	0.0	375	19.3	0	0.0	132	6.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	706	36.4
	(6/18)		F	0	0.0	0	0.0	198	10.2	0	0.0	552	28.4	0	0.0	353	18.2	0	0.0	132	6.8	0	0.0	0	0.0	0	0.0	1,236	63.6
			Subtotal	0	0.0	0	0.0	397	20.4	0	0.0	927	47.7	0	0.0	486	25.0	0	0.0	132	6.8	0	0.0	0	0.0	0	0.0	1,942	100.0
	6/24	177	M	0	0.0	0	0.0	697	24.9	0	0.0	411	14.7	0	0.0	568	20.3	0	0.0	95	3.4	0	0.0	0	0.0	0	0.0	1,771	63.3
	(6/24)		F	0	0.0	0	0.0	520	18.6	0	0.0	204	7.3	0	0.0	285	10.2	0	0.0	17	0.6	0	0.0	0	0.0	0	0.0	1,027	36.7
			Subtotal	0	0.0	0	0.0	1,217	43.5	0	0.0	616	22.0	0	0.0	853	30.5	0	0.0	112	4.0	0	0.0	0	0.0	0	0.0	2,798	100.0
	6/29	80	M	0	0.0	59	1.2	353	7.0	0	0.0	647	12.8	0	0.0	237	4.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,297	25.6
	(6/29; 7/1, 3)		F	0	0.0	177	3.5	1,413	27.9	0	0.0	1,413	27.9	0	0.0	647	12.8	0	0.0	116	2.3	0	0.0	0	0.0	0	0.0	3,766	74.4
			Subtotal	0	0.0	236	4.7	1,766	34.9	0	0.0	2,060	40.7	0	0.0	884	17.5	0	0.0	116	2.3	0	0.0	0	0.0	0	0.0	5,063	100.0
	7/13	57	M	0	0.0	428	12.3	122	3.5	0	0.0	183	5.3	0	0.0	183	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	917	26.3
	(7/6- 7, 8, 10, 13,		F	0	0.0	183	5.3	793	22.8	0	0.0	734	21.1	0	0.0	671	19.3	0	0.0	183	5.3	0	0.0	0	0.0	0	0.0	2,564	73.7
	15, 17, 20, 22, 24, 27,		Subtotal	0	0.0	611	17.6	915	26.3	0	0.0	917	26.4	0	0.0	854	24.6	0	0.0	183	5.3	0	0.0	0	0.0	0	0.0	3,480	100.0
	29, 31; 8/3, 5, 7, 10, 12,																												
	14, 17, 19, 21, 24, 26, 28, 31)																												
	Season	501	M	0	0.0	487	2.8	1,832	10.7	0	0.0	1,954	11.4	0	0.0	1,457	8.5	0	0.0	95	0.6	0	0.0	0	0.0	0	0.0	5,826	33.9
			F	0	0.0	361	2.1	3,554	20.7	0	0.0	4,123	24.0	0	0.0	2,798	16.3	0	0.0	535	3.1	0	0.0	0	0.0	0	0.0	11,372	66.1
			Total	0	0.0	848	4.9	5,387	31.3	0	0.0	6,077	35.3	0	0.0	4,256	24.7	0	0.0	630	3.7	0	0.0	0	0.0	0	0.0	17,197	100.0
1993	6/21	133	M	0	0.0	0	0.0	2,562	41.4	0	0.0	1,306	21.1	48	0.8	370	6.0	0	0.0	48	0.8	0	0.0	0	0.0	0	0.0	4,334	70.0
	(6/21)		F	0	0.0	0	0.0	48	0.8	0	0.0	421	6.8	0	0.0	1,208	19.5	0	0.0	186	3.0	0	0.0	0	0.0	0	0.0	1,863	30.1
			Subtotal	0	0.0	0	0.0	2,610	42.1	0	0.0	1,727	27.9	48	0.8	1,578	25.5	0	0.0	234	3.8	0	0.0	0	0.0	0	0.0	6,194	100.0
	6/24	73	M	0	0.0	0	0.0	762	31.5	0	0.0	530	21.9	0	0.0	99	4.1	0	0.0	0	0.0	33	1.4	0	0.0	0	0.0	1,424	58.9
	(6/24)		F	0	0.0	0	0.0	0	0.0	0	0.0	232	9.6	0	0.0	696	28.8	33	1.4	33	1.4	0	0.0	0	0.0	0	0.0	995	41.1
			Subtotal	0	0.0	0	0.0	762	31.5	0	0.0	762	31.5	0	0.0	795	32.9	0	0.0	33	1.4	33	1.4	0	0.0	0	0.0	2,419	100.0
	6/28, 7/2	76	M	0	0.0	0	0.0	1,504	31.6	0	0.0	376	7.9	0	0.0	500	10.5	125	2.6	0	0.0	0	0.0	0	0.0	0	0.0	2,505	52.6
	(6/28, 30; 7/2, 5)		F	0	0.0	0	0.0	125	2.6	0	0.0	876	18.4	0	0.0	1,130	23.7	0	0.0	125	2.6	0	0.0	0	0.0	0	0.0	2,255	47.4
			Subtotal	0	0.0	0	0.0	1,629	34.2	0	0.0	1,252	26.3	0	0.0	1,629	34.2	0	0.0	125	2.6	0	0.0	0	0.0	0	0.0	4,760	100.0
	7/9, 12	55	M	0	0.0	0	0.0	702	29.1	0	0.0	350	14.5	0	0.0	350	14.5	0	0.0	44	1.8	0	0.0	0	0.0	0	0.0	1,446	60.0
	(7/7, 9, 12, 14, 16, 19,		F	0	0.0	0	0.0	44	1.8	0	0.0	307	12.7	0	0.0	526	21.8	0	0.0	87	3.6	0	0.0	0	0.0	0	0.0	964	40.0
	21, 23, 26, 28, 30;		Subtotal	0	0.0	0	0.0	746	30.9	0	0.0	657	27.2	0	0.0	876	36.3	0	0.0	131	5.4	0	0.0	0	0.0	0	0.0	2,411	100.0
	8/2, 6, 9, 11, 16, 18,																												
	20, 23, 25, 28)																												
	Season	337	M	0	0.0	0	0.0	5,531	35.0	0	0.0	2,562	16.2	48	0.3	1,319	8.4	125	0.8	92	0.6	33	0.2	0	0.0	0	0.0	9,709	61.5
			F	0	0.0	0	0.0	216	1.4	0	0.0	1,835	11.6	0	0.0	3,560	22.6	33	0.2	431	2.7	0	0.0	0	0.0	0	0.0	6,076	38.5
			Total	0	0.0	0	0.0	5,747	36.4	0	0.0	4,397	27.9	48	0.3	4,879	30.9	0	0.0	523	3.3	33	0.2	0	0.0	0	0.0	15,784	100.0
1994	6/15	38	M	0	0.0	0	0.0	184	15.8	0	0.0	154	13.2	0	0.0	276	23.7	0	0.0	62	5.3	0	0.0	0	0.0	0	0.0	675	57.9
	(6/15)		F	0	0.0	0	0.0	0	0.0	0	0.0	214	18.4	0	0.0	276	23.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	490	42.1
			Subtotal	0	0.0	0	0.0	184	15.8	0	0.0	368	31.6	0	0.0	552	47.4	0	0.0	62	5.3	0	0.0	0	0.0	0	0.0	1,165	100.0

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Table 19. Age and sex of chinook salmon from the District 4 commercial fishery (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1994 (cont.)	6/20 (6/20)	126	M	0	0.0	0	0.0	36	4.8	0	0.0	177	23.8	0	0.0	124	16.7	0	0.0	6	0.8	0	0.0	0	0.0	0	0.0	343	46.0
			F	0	0.0	0	0.0	77	10.3	0	0.0	160	21.4	0	0.0	137	18.3	0	0.0	30	4.0	0	0.0	0	0.0	0	0.0	403	54.0
			Subtotal	0	0.0	0	0.0	112	15.1	0	0.0	337	45.2	0	0.0	261	35.0	0	0.0	36	4.8	0	0.0	0	0.0	0	0.0	746	100.0
	7/1 (7/1)	103	M	0	0.0	25	1.0	664	26.2	0	0.0	517	20.4	0	0.0	220	8.7	0	0.0	0	0.0	25	1.0	0	0.0	0	0.0	1,452	57.3
			F	0	0.0	0	0.0	25	1.0	0	0.0	345	13.6	0	0.0	639	25.2	0	0.0	73	2.9	0	0.0	0	0.0	0	0.0	1,082	42.7
			Subtotal	0	0.0	25	1.0	689	27.2	0	0.0	862	34.0	0	0.0	859	33.9	0	0.0	73	2.9	25	1.0	0	0.0	0	0.0	2,534	100.0
	7/6 (7/4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27, 29; 8/1, 3, 5, 8, 12, 15, 17, 19, 22, 24, 26, 29; 9/5)	59	M	0	0.0	69	1.7	420	10.2	0	0.0	1,255	30.5	0	0.0	419	10.2	0	0.0	69	1.7	0	0.0	0	0.0	0	0.0	2,233	54.2
			F	0	0.0	0	0.0	69	1.7	0	0.0	630	15.3	0	0.0	1,046	25.4	0	0.0	140	3.4	0	0.0	0	0.0	0	0.0	1,886	45.8
			Subtotal	0	0.0	69	1.7	489	11.9	0	0.0	1,886	45.8	0	0.0	1,466	35.6	0	0.0	209	5.1	0	0.0	0	0.0	0	0.0	4,119	100.0
	Season	326	M	0	0.0	95	1.1	1,304	15.2	0	0.0	2,103	24.6	0	0.0	1,040	12.1	0	0.0	137	1.6	25	0.3	0	0.0	0	0.0	4,703	54.9
			F	0	0.0	0	0.0	171	2.0	0	0.0	1,349	15.8	0	0.0	2,097	24.5	0	0.0	243	2.8	0	0.0	0	0.0	0	0.0	3,861	45.1
			Total	0	0.0	95	1.1	1,475	17.2	0	0.0	3,452	40.3	0	0.0	3,137	36.6	0	0.0	380	4.4	25	0.3	0	0.0	0	0.0	8,564	100.0
1995	6/13 (6/13)	206	M	0	0.0	0	0.0	1,593	20.9	0	0.0	442	5.8	0	0.0	1,553	20.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,588	47.1
			F	0	0.0	0	0.0	1,110	14.6	0	0.0	814	10.7	0	0.0	2,035	26.7	0	0.0	74	1.0	0	0.0	0	0.0	0	0.0	4,033	52.9
			Subtotal	0	0.0	0	0.0	2,703	35.5	0	0.0	1,256	16.5	0	0.0	3,588	47.1	0	0.0	74	1.0	0	0.0	0	0.0	0	0.0	7,621	100.0
	6/17 (6/17, 20)	199	M	0	0.0	0	0.0	3,665	23.6	0	0.0	1,879	12.1	0	0.0	3,044	19.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,589	55.3
			F	0	0.0	0	0.0	388	2.5	0	0.0	932	6.0	0	0.0	5,622	36.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,942	44.7
			Subtotal	0	0.0	0	0.0	4,054	26.1	0	0.0	2,811	18.1	0	0.0	8,666	55.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15,531	100.0
	6/24 (6/24)	78	M	0	0.0	0	0.0	1,167	19.2	0	0.0	778	12.8	0	0.0	1,713	28.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,658	60.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	312	5.1	0	0.0	2,025	33.3	0	0.0	79	1.3	0	0.0	0	0.0	0	0.0	2,415	39.8
			Subtotal	0	0.0	0	0.0	1,167	19.2	0	0.0	1,089	17.9	0	0.0	3,737	61.5	0	0.0	79	1.3	0	0.0	0	0.0	0	0.0	6,073	100.0
	6/26 (6/26, 29; 7/3, 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28, 31; 8/2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25, 28, 30; 9/1)	120	M	0	0.0	0	0.0	1,170	12.5	0	0.0	780	8.3	0	0.0	3,587	38.3	0	0.0	78	0.8	0	0.0	0	0.0	0	0.0	5,614	60.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	157	1.7	0	0.0	3,587	38.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,745	40.0
			Subtotal	0	0.0	0	0.0	1,170	12.5	0	0.0	937	10.0	0	0.0	7,175	76.7	0	0.0	78	0.8	0	0.0	0	0.0	0	0.0	9,359	100.0
	Season	603	M	0	0.0	0	0.0	7,595	19.7	0	0.0	3,879	10.1	0	0.0	9,897	25.7	0	0.0	78	0.2	0	0.0	0	0.0	0	0.0	21,449	55.6
			F	0	0.0	0	0.0	1,499	3.9	0	0.0	2,215	5.7	0	0.0	13,269	34.4	0	0.0	153	0.4	0	0.0	0	0.0	0	0.0	17,135	44.4
			Total	0	0.0	0	0.0	9,094	23.6	0	0.0	6,093	15.8	0	0.0	23,166	60.0	0	0.0	231	0.6	0	0.0	0	0.0	0	0.0	38,584	100.0
1996[a]	6/22 (6/22)	125	M	0	0.0	38	0.8	608	12.8	0	0.0	1,673	35.2	0	0.0	266	5.6	0	0.0	114	2.4	0	0.0	0	0.0	0	0.0	2,699	56.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	874	18.4	0	0.0	836	17.6	0	0.0	342	7.2	0	0.0	0	0.0	0	0.0	2,053	43.2
			Subtotal	0	0.0	38	0.8	608	12.8	0	0.0	2,547	53.6	0	0.0	1,102	23.2	0	0.0	456	9.6	0	0.0	0	0.0	0	0.0	4,752	100.0
	6/25 (6/25)	81	M	0	0.0	0	0.0	105	4.9	0	0.0	656	30.9	0	0.0	157	7.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	918	43.2
			F	0	0.0	0	0.0	210	9.9	0	0.0	420	19.8	0	0.0	525	24.7	0	0.0	52	2.5	0	0.0	0	0.0	0	0.0	1,207	56.8
			Subtotal	0	0.0	0	0.0	315	14.8	0	0.0	1,076	50.6	0	0.0	682	32.1	0	0.0	52	2.5	0	0.0	0	0.0	0	0.0	2,125	100.0
	6/29 (6/29)	193	M	0	0.0	76	1.0	1,322	18.1	0	0.0	1,964	26.9	0	0.0	717	9.8	0	0.0	38	0.5	0	0.0	0	0.0	0	0.0	4,116	56.5
			F	0	0.0	0	0.0	189	2.6	0	0.0	982	13.5	0	0.0	1,435	19.7	0	0.0	566	7.8	0	0.0	0	0.0	0	0.0	3,172	43.5
			Subtotal	0	0.0	76	1.0	1,510	20.7	0	0.0	2,945	40.4	0	0.0	2,152	29.5	0	0.0	604	8.3	0	0.0	0	0.0	0	0.0	2,378	100.0

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Table 19. Age and sex of chinook salmon from the District 4 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1996 (cont.)	(7/3)	0	M																										
			F																										
			Subtotal																									1,787	
	(7/6, 9, 11, 13, 15 17, 20, 24, 27, 29, 31; 8/2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26)	0	M																										
			F																										
			Subtotal																									3,123	
	Season	399	M																										
			F																										
			Total																									14,165	
1997	6/13 [d] (6/13, 16, 19)	181	M	0	0.0	107	0.6	7,086	36.5	0	0.0	1,825	9.4	0	0.0	3,650	18.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	12,668	65.2
			F	0	0.0	0	0.0	107	0.5	0	0.0	430	2.2	0	0.0	6,012	30.9	0	0.0	215	1.1	0	0.0	0	0.0	0	0.0	6,764	34.8
			Subtotal	0	0.0	107	0.6	7,193	37.0	0	0.0	2,255	11.6	0	0.0	9,662	49.7	0	0.0	215	1.1	0	0.0	0	0.0	0	0.0	19,432	100.0
	6/26 [d] (6/23, 26, 30)	156	M	0	0.0	121	1.3	3,274	34.6	0	0.0	1,395	14.7	0	0.0	1,940	20.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,729	71.2
			F	0	0.0	0	0.0	0	0.0	0	0.0	121	1.3	0	0.0	2,607	27.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,728	28.8
			Subtotal	0	0.0	121	1.3	3,274	34.6	0	0.0	1,516	16.0	0	0.0	4,547	48.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,457	100.0
	7/4 [d] (7/2, 4, 7, 9, 11)	105	M	0	0.0	52	1.0	1,552	28.6	0	0.0	259	4.8	0	0.0	983	18.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,845	52.4
			F	0	0.0	0	0.0	0	0.0	0	0.0	103	1.9	0	0.0	2,482	45.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,586	47.6
			Subtotal	0	0.0	52	1.0	1,552	28.6	0	0.0	362	6.7	0	0.0	3,465	63.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,431	100.0
	7/21 [d] (7/14, 16, 18, 21, 23)	97	M	0	0.0	44	6.2	236	33.0	7	1.0	22	3.1	0	0.0	59	8.2	0	0.0	7	1.0	0	0.0	0	0.0	0	0.0	376	52.6
			F	0	0.0	0	0.0	0	0.0	0	0.0	7	1.0	0	0.0	332	46.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	339	47.4
			Subtotal	0	0.0	44	6.2	236	33.0	7	1.0	29	4.1	0	0.0	391	54.6	0	0.0	7	1.0	0	0.0	0	0.0	0	0.0	715	100.0
	7/25 [d] (7/25, 28, 30; 8/1, 4, 6, 8, 13, 15, 18, 20, 22, 25, 28)	34	M	0	0.0	70	14.7	251	52.9	14	2.9	84	17.6	0	0.0	28	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	447	94.1
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	28	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	28	5.9
			Subtotal	0	0.0	70	14.7	251	52.9	14	2.9	84	17.6	0	0.0	56	11.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	475	100.0
	Season [d]	573	M	0	0.0	394	1.1	12,396	34.9	21	0.1	3,584	10.1	0	0.0	6,660	18.7	0	0.0	7	0.0	0	0.0	0	0.0	0	0.0	23,065	65.0
				0	0.0	0	0.0	108	0.3	0	0.0	661	1.9	0	0.0	11,461	32.3	0	0.0	215	0.6	0	0.0	0	0.0	0	0.0	12,445	35.0
				0	0.0	394	1.1	12,506	35.2	21	0.1	4,245	12.0	0	0.0	18,121	51.0	0	0.0	222	0.6	0	0.0	0	0.0	0	0.0	35,510	100.0
	Grand Total [e]	3,192	M	0	0.0	989	0.6	34,839	22.8	21	0.0	22,595	14.8	48	0.0	26,681	17.5	207	0.1	1,805	1.2	98	0.1	122	0.1	7	0.0	87,413	57.2
			F	0	0.0	361	0.2	7,154	4.7	0	0.0	13,757	9.0	0	0.0	40,081	26.2	33	0.0	3,768	2.5	40	0.0	122	0.1	40	0.0	65,355	42.8
			Total	0	0.0	1,349	0.9	41,993	27.5	21	0.0	36,352	23.8	48	0.0	66,762	43.7	0	0.0	5,573	3.6	138	0.1	245	0.2	46	0.0	152,763	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] Sampling dates fo not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".
[d] Sex of all fish was confirmed by visual inspection of gonads.
[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums. 1996 is not included.

Table 20. Mean length (mm) of chinook salmon from the District 4 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/13 (6/13)	M	Mean Length			525		699		880					
			Std. Error			7		16		13					
			Range			435- 615		617- 781		703- 1020					
			Sample Size	0	0	43	0	12	0	42	0	0	0	0	0
		F	Mean Length			562		692		849		906			
			Std. Error			10		12		9		16			
			Range			491- 799		541- 831		690- 966		890- 921			
			Sample Size	0	0	30	0	22	0	55	0	2	0	0	0
	6/17 (6/17, 20)	M	Mean Length			535		720		850					
			Std. Error			6		12		11					
			Range			459- 621		622- 818		731- 966					
			Sample Size	0	0	47	0	24	0	39	0	0	0	0	0
		F	Mean Length			583		728		874					
			Std. Error			11		21		5					
			Range			547- 615		605- 861		787- 983					
			Sample Size	0	0	5	0	12	0	72	0	0	0	0	0
	6/24 (6/20, 24)	M	Mean Length			546		709		862					
			Std. Error			10		26		16					
			Range			486- 603		570- 800		696- 953					
			Sample Size	0	0	15	0	10	0	22	0	0	0	0	0
		F	Mean Length					755		862		950			
			Std. Error					48		11		-			
			Range					666- 868		715- 942		950- 950			
			Sample Size	0	0	0	0	4	0	26	0	1	0	0	0
	6/26 (6/26 - 9/1)	M	Mean Length			550		743		863		866			
			Std. Error			11		18		11		-			
			Range			477- 623		637- 837		636- 998		866- 866			
			Sample Size	0	0	15	0	10	0	46	0	1	0	0	0
		F	Mean Length					797		881					
			Std. Error					25		7					
			Range					772- 821		737- 989					
			Sample Size	0	0	0	0	2	0	46	0	0	0	0	0

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Table 20. Mean length (mm) of chinook salmon from the District 4 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995 (cont.)	Season	M	Mean Length			538		719		862		866			
			Range			435- 623		617- 837		636- 1020		866- 866			
			Sample Size	0	0	120	0	56	0	149	0	1	0	0	0
		F	Mean Length			566		726		869		934			
			Range			491- 799		541- 868		690- 989		890- 950			
			Sample Size	0	0	35	0	40	0	199	0	3	0	0	0
1996 [b]	6/22 (6/22)	M	Mean Length		435	526		725		888		873			
			Std. Error		-	16		11		37		43			
			Range		435- 435	390- 610		620- 910		790- 1030		790- 930			
			Sample Size	0	1	16	0	44	0	7	0	3	0	0	0
		F	Mean Length					754		861		923			
			Std. Error					16		14		9			
			Range					620- 940		680- 970		890- 970			
			Sample Size	0	0	0	0	23	0	22	0	9	0	0	0
	6/25 (6/25)	M	Mean Length			558		760		843					
			Std. Error			11		17		17					
			Range			525- 575		630- 945		795- 905					
			Sample Size	0	0	4	0	24	0	6	0	0	0	0	0
		F	Mean Length			520		743		867		903			
			Std. Error			20		19		9		13			
			Range			395- 575		615- 850		770- 940		890- 915			
			Sample Size	0	0	8	0	16	0	20	0	2	0	0	0
	6/29 (6/29 - 8/26)	M	Mean Length		395	544		719		861		915			
			Std. Error		10	7		9		18		-			
			Range		385- 405	475- 625		625- 900		745- 1025		915- 915			
			Sample Size	0	2	35	0	52	0	19	0	1	0	0	0
		F	Mean Length			571		772		841		889			
			Std. Error			9		14		9		18			
			Range			540- 590		655- 885		700- 995		725- 1005			
			Sample Size	0	0	5	0	29	0	38	0	15	0	0	0

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Table 20. Mean length (mm) of chinook salmon from the District 4 commercial fishery (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997	6/13 [d] (6/13, 16, 19)	M	Mean Length		375	562		712							
			Std. Error		-	6		12							
			Range		375- 375	445- 664		630- 790							
			Sample Size	0	1	66	0	17	0	34 [c]	0	0	0	0	0
		F	Mean Length			636		762							
			Std. Error			-		17							
			Range			636- 636		728- 806							
			Sample Size	0	0	1	0	4	0	56 [c]	0	2 [c]	0	0	0
	6/26 [d] (6/23, 26, 30)	M	Mean Length		393	592		715		843					
			Std. Error		14	8		14		15					
			Range		379- 407	490- 805		534- 825		648- 989					
			Sample Size	0	2	54	0	23	0	32	0	0	0	0	0
		F	Mean Length					856		876					
			Std. Error					28		9					
			Range					828- 883		651- 982					
			Sample Size	0	0	0	0	2	0	43	0	0	0	0	0
	7/04 [d] (7/2, 4, 7, 9, 11)	M	Mean Length		448	563		733		865					
			Std. Error		-	8		17		19					
			Range		448- 448	486- 666		695- 783		700- 990					
			Sample Size	0	1	30	0	5	0	19	0	0	0	0	0
		F	Mean Length					869		898					
			Std. Error					95		8					
			Range					774- 963		746- 1000					
			Sample Size	0	0	0	0	2	0	48	0	0	0	0	0
	7/21 [d] (7/14, 16, 18, 21, 23)	M	Mean Length		425	580	495	681		915		985			
			Std. Error		24	12	-	33		21		-			
			Range		365- 513	472- 701	495- 495	621- 735		839- 1015		985- 985			
			Sample Size	0	6	32	1	3	0	8	0	1	0	0	0
		F	Mean Length					740		895					
			Std. Error					-		8					
			Range					740- 740		794- 1012					
			Sample Size	0	0	0	0	1	0	45	0	0	0	0	0

-continued-

Table 20. Mean length (mm) of chinook salmon from the District 4 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
	7/25 [d]	M	Mean Length		385	568	458	655		843					
	(7/25,28, 30; 8/1, 4,		Std. Error		20	15	-	19		23					
	6, 8, 13, 15, 18, 20,		Range		340- 437	480- 664	458- 458	567- 700		820- 865					
	22, 25, 28)		Sample Size	0	5	18	1	6	0	2	0	0	0	0	0
		F	Mean Length							831					
			Std. Error							21					
			Range							810- 852					
			Sample Size	0	0	0	0	0	0	2	0	0	0	0	0
	Season [c,d]	M	Mean Length		398	570	471	713		847		985			
			Range		340- 513	445- 805	458- 495	534- 825		648- 1015		985- 985			
			Sample Size	0	15	200	2	54	0	61	0	1	0	0	0
		F	Mean Length			636		795		881					
			Range			636- 636		728- 963		651- 1012					
			Sample Size	0	0	1	0	9	0	138	0	0	0	0	0
	Grand Total [e]	M	Mean Length	0	398	554	471	716		855		926			
			Range		340- 513	435- 805	458- 495	617- 837		636- 1020		866- 985			
			Sample Size	0	15	320	2	110	0	210	0	2	0	0	0
		F	Mean Length			601		760		875		934			
			Range			491- 799		541- 963		690- 1012		890- 950			
			Sample Size	0	0	36	0	49	0	337	0	3	0	0	0

a "Season" mean lengths are weighted by the commercial harvest in each stratum.
b Sampling dates do not meet criteria for estimating commercial harvest for some or all of the strata; "Season" is not included in "Grand Total".
c Ages 1.4 and 1.5 collected 6/13/97 are omitted from length analysis due to recording errors.
d Sex of all fish was confirmed by visual inspection of gonads.
e "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 21. Age and sex of chinook salmon from the District 5 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1990[c]	6/20	87	M	0	0.0	0	0.0	146	40.7	0	0.0	71	19.8	0	0.0	71	19.8	0	0.0	8	2.3	0	0.0	0	0.0	0	0.0	296	82.6
	(6/20)		F	0	0.0	0	0.0	17	4.7	0	0.0	17	4.7	0	0.0	21	5.8	0	0.0	8	2.3	0	0.0	0	0.0	0	0.0	62	17.4
			Subtotal	0	0.0	0	0.0	162	45.3	0	0.0	87	24.4	0	0.0	92	25.6	0	0.0	17	4.7	0	0.0	0	0.0	0	0.0	358	100.0
	6/25	47	M	0	0.0	0	0.0	116	34.0	0	0.0	22	6.4	0	0.0	51	14.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	188	55.3
	(6/25)		F	0	0.0	0	0.0	0	0.0	0	0.0	22	6.4	0	0.0	123	36.2	0	0.0	7	2.1	0	0.0	0	0.0	0	0.0	152	44.7
			Subtotal	0	0.0	0	0.0	116	34.0	0	0.0	44	12.8	0	0.0	174	51.1	0	0.0	7	2.1	0	0.0	0	0.0	0	0.0	340	100.0
	(6/29, 7/2)	0	M																										
			F																										
			Subtotal																									1,040	
	7/5	14	M	0	0.0	0	0.0	119	21.4	0	0.0	40	7.1	0	0.0	318	57.1	40	7.1	0	0.0	0	0.0	0	0.0	0	0.0	517	92.9
	(7/5)		F	0	0.0	0	0.0	0	0.0	0	0.0	40	7.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	40	7.1
			Subtotal	0	0.0	0	0.0	119	21.4	0	0.0	80	14.3	0	0.0	318	57.1	40	7.1	0	0.0	0	0.0	0	0.0	0	0.0	557	100.0
	(7/7, 9, 11, 13, 16 18, 20, 21, 23- 28, 30- 31; 8/1- 3, 6, 8, 10, 13, 16, 20, 27, 29)	0	M																										
			F																										
			Subtotal																									1,008	
	Season	148	M																										
			F																										
			Total																									3,303	
1991	6/20	66	M	0	0.0	0	0.0	29	21.2	0	0.0	46	33.3	2	1.5	17	12.1	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	97	69.7
	(6/20)		F	0	0.0	0	0.0	15	10.6	0	0.0	21	15.2	0	0.0	6	4.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	42	30.3
			Subtotal	0	0.0	0	0.0	44	31.8	0	0.0	67	48.5	2	1.5	23	16.7	0	0.0	2	1.5	0	0.0	0	0.0	0	0.0	139	100.0
	6/27	65	M	0	0.0	0	0.0	67	38.5	0	0.0	32	18.5	0	0.0	24	13.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	122	70.8
	(6/27)		F	0	0.0	0	0.0	0	0.0	0	0.0	27	15.4	0	0.0	24	13.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	29.2
			Subtotal	0	0.0	0	0.0	67	38.5	0	0.0	59	33.9	0	0.0	48	27.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	173	100.0
	7/1	80	M	0	0.0	0	0.0	22	28.8	0	0.0	21	27.5	0	0.0	5	6.3	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	49	63.8
	(7/1)		F	0	0.0	0	0.0	0	0.0	0	0.0	8	10.0	0	0.0	19	25.0	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	28	36.2
			Subtotal	0	0.0	0	0.0	22	28.8	0	0.0	29	37.5	0	0.0	24	31.3	0	0.0	2	2.6	0	0.0	0	0.0	0	0.0	77	100.0
	7/6	17	M	0	0.0	0	0.0	68	35.3	0	0.0	68	35.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	136	70.6
	(7/6, 8)		F	0	0.0	0	0.0	0	0.0	0	0.0	23	11.8	0	0.0	23	11.8	0	0.0	11	5.9	0	0.0	0	0.0	0	0.0	57	29.4
			Subtotal	0	0.0	0	0.0	68	35.3	0	0.0	91	47.1	0	0.0	23	11.8	0	0.0	11	5.9	0	0.0	0	0.0	0	0.0	193	100.0
	7/11	14	M	0	0.0	0	0.0	19	35.7	0	0.0	11	21.4	0	0.0	4	7.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	34	64.3
	(7/11)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11	21.4	0	0.0	0	0.0	4	7.1	0	0.0	4	7.1	19	35.7
			Subtotal	0	0.0	0	0.0	19	35.7	0	0.0	11	21.4	0	0.0	15	28.6	0	0.0	0	0.0	4	7.1	0	0.0	4	7.1	53	100.0
	7/13	16	M	0	0.0	0	0.0	35	12.5	0	0.0	52	18.8	0	0.0	35	12.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	121	43.8
	(7/13 - 9/2)		F	0	0.0	0	0.0	0	0.0	0	0.0	69	25.0	0	0.0	52	18.8	0	0.0	17	6.3	17	6.3	0	0.0	0	0.0	156	56.3
			Subtotal	0	0.0	0	0.0	35	12.5	0	0.0	121	43.8	0	0.0	87	31.3	0	0.0	17	6.3	17	6.3	0	0.0	0	0.0	277	100.0
	Season	258	M	0	0.0	0	0.0	240	26.3	0	0.0	231	25.3	2	0.2	84	9.2	0	0.0	3	0.3	0	0.0	0	0.0	0	0.0	560	61.4
			F	0	0.0	0	0.0	15	1.6	0	0.0	147	16.2	0	0.0	135	14.9	0	0.0	30	3.2	21	2.3	0	0.0	4	0.4	352	38.6
			Total	0	0.0	0	0.0	255	27.9	0	0.0	378	41.5	2	0.2	219	24.1	0	0.0	33	3.6	21	2.3	0	0.0	4	0.4	912	100.0

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Table 21. Age and sex of chinook salmon from the District 5 commercial fishery (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1992	6/22	62	M	0	0.0	24	1.6	358	24.2	0	0.0	382	25.8	0	0.0	96	6.5	0	0.0	24	1.6	0	0.0	0	0.0	0	0.0	883	59.7
	(6/22, 25)		F	0	0.0	0	0.0	214	14.5	0	0.0	191	12.9	0	0.0	191	12.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	596	40.3
			Subtotal	0	0.0	24	1.6	572	38.7	0	0.0	572	38.7	0	0.0	287	19.4	0	0.0	24	1.6	0	0.0	0	0.0	0	0.0	1,479	100.0
	7/2	38	M	0	0.0	0	0.0	311	21.1	0	0.0	388	26.3	38	2.6	349	23.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,086	73.7
	(6/29; 7/2, 6)		F	0	0.0	0	0.0	0	0.0	0	0.0	155	10.5	0	0.0	195	13.2	0	0.0	0	0.0	38	2.6	0	0.0	0	0.0	388	26.3
			Subtotal	0	0.0	0	0.0	311	21.1	0	0.0	542	36.8	38	2.6	544	36.9	0	0.0	0	0.0	38	2.6	0	0.0	0	0.0	1,474	100.0
	7/13, 16, 20, 23, 27, 30; 8/3	40	M	0	0.0	0	0.0	115	20.0	0	0.0	86	15.0	0	0.0	115	20.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	316	55.0
	(7/9 - 9/3)		F	0	0.0	0	0.0	58	10.0	0	0.0	43	7.5	0	0.0	129	22.5	0	0.0	29	5.0	0	0.0	0	0.0	0	0.0	259	45.0
			Subtotal	0	0.0	0	0.0	173	30.0	0	0.0	129	22.5	0	0.0	244	42.5	0	0.0	29	5.0	0	0.0	0	0.0	0	0.0	575	100.0
	Season	140	M	0	0.0	24	0.7	784	22.2	0	0.0	855	24.2	38	1.1	560	15.9	0	0.0	24	0.7	0	0.0	0	0.0	0	0.0	2,286	64.8
			F	0	0.0	0	0.0	272	7.7	0	0.0	389	11.0	0	0.0	515	14.6	0	0.0	29	0.8	38	1.1	0	0.0	0	0.0	1,242	35.2
			Total	0	0.0	24	0.7	1,056	29.9	0	0.0	1,244	35.3	38	1.1	1,075	30.5	0	0.0	52	1.5	38	1.1	0	0.0	0	0.0	3,528	100.0
1993 [c]	6/28	101	M	0	0.0	0	0.0	50	8.9	0	0.0	84	14.9	0	0.0	90	15.6	0	0.0	6	1.0	0	0.0	0	0.0	0	0.0	230	40.6
	(6/28)		F	0	0.0	0	0.0	157	27.7	0	0.0	62	10.9	0	0.0	107	18.6	0	0.0	11	2.0	0	0.0	0	0.0	0	0.0	337	59.4
			Subtotal	0	0.0	0	0.0	208	36.6	0	0.0	146	25.8	0	0.0	196	34.6	0	0.0	17	3.0	0	0.0	0	0.0	0	0.0	567	100.0
	6/30, 7/2	51	M	0	0.0	0	0.0	40	9.8	0	0.0	64	15.7	0	0.0	40	9.8	0	0.0	8	2.0	0	0.0	0	0.0	0	0.0	152	37.3
	(6/30, 7/2)		F	0	0.0	0	0.0	56	13.7	0	0.0	64	15.7	0	0.0	120	29.4	0	0.0	16	3.9	0	0.0	0	0.0	0	0.0	256	62.7
			Subtotal	0	0.0	0	0.0	96	23.5	0	0.0	128	31.4	0	0.0	160	39.2	0	0.0	24	5.9	0	0.0	0	0.0	0	0.0	408	100.0
	(7/5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28, 30; 8/2, 4, 6, 9, 13, 16, 18, 23, 26, 28; 9/1, 3)	0	M																										
			F																										
			Subtotal																									1,142	
	Season	152	M																										
			F																										
			Total																									2,117	
1994 [c]	6/27	80	M	0	0.0	0	0.0	59	15.1	0	0.0	90	23.3	0	0.0	59	15.1	0	0.0	5	1.2	0	0.0	0	0.0	0	0.0	212	54.7
	(6/27)		F	0	0.0	0	0.0	41	10.5	0	0.0	59	15.1	0	0.0	77	19.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	176	45.3
			Subtotal	0	0.0	0	0.0	99	25.6	0	0.0	149	38.4	0	0.0	135	34.9	0	0.0	5	1.2	0	0.0	0	0.0	0	0.0	388	100.0
	6/30	64	M	0	0.0	0	0.0	6	1.6	0	0.0	44	12.5	0	0.0	87	25.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	136	39.1
	(6/30)		F	0	0.0	0	0.0	27	7.8	0	0.0	82	23.4	0	0.0	87	25.0	0	0.0	16	4.7	0	0.0	0	0.0	0	0.0	213	60.9
			Subtotal	0	0.0	0	0.0	33	9.4	0	0.0	125	35.9	0	0.0	175	50.0	0	0.0	16	4.7	0	0.0	0	0.0	0	0.0	349	100.0
	(7/4, 6, 8, 11, 12, 14, 15, 19, 21, 23, 25, 27, 29; 8/2, 3, 5, 8, 10, 12, 15, 17, 19, 22, 24, 29; 9/5, 7)	0	M																										
			F																										
			Subtotal																									1,833	
	Season	150	M																										
			F																										
			Total																									2,570	

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Table 21. Age and sex of chinook salmon from the District 5 commercial fishery (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	1.2 Catch	1.2 %	2.1 Catch	2.1 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	1.5 Catch	1.5 %	2.4 Catch	2.4 %	1.6 Catch	1.6 %	2.5 Catch	2.5 %	Total Catch	Total %
1995 [c]	6/29	196	M	0	0.0	0	0.0	331	36.2	0	0.0	112	12.2	0	0.0	182	19.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	625	68.4
	(6/29)		F	0	0.0	0	0.0	80	8.7	0	0.0	9	1.0	0	0.0	196	21.4	0	0.0	5	0.5	0	0.0	0	0.0	0	0.0	289	31.6
			Total	0	0.0	0	0.0	410	44.9	0	0.0	121	13.2	0	0.0	378	41.3	0	0.0	5	0.5	0	0.0	0	0.0	0	0.0	914	100.0
	(7/3, 5, 7, 8, 11, 13- 14, 17- 18, 20- 21, 24, 26, 28, 31, 8/2, 7, 11, 14, 16, 18, 21, 25, 28, 30, 9/1)	0	M																										
			F																										
			Total																									2,008	
	Season	196	M																										
			F																										
			Total																									2,922	
1996 [d]	Season	0	M																										
			F																										
			Total																									1,375	
1997	6/27 [a]	218	M	0	0.0	6	0.9	314	47.7	0	0.0	103	15.6	0	0.0	69	10.5	0	0.0	3	0.5	0	0.0	0	0.0	0	0.0	495	75.2
	(6/27, 30)		F	0	0.0	0	0.0	0	0.0	0	0.0	21	3.2	0	0.0	142	21.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	163	24.8
			Subtotal	0	0.0	6	0.9	314	47.7	0	0.0	124	18.8	0	0.0	211	32.1	0	0.0	3	0.5	0	0.0	0	0.0	0	0.0	658	100.0
	7/4 [e]	141	M	0	0.0	4	0.7	274	44.7	0	0.0	30	5.0	0	0.0	61	9.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	370	60.3
	(7/2, 4, 7)		F	0	0.0	0	0.0	0	0.0	0	0.0	9	1.4	0	0.0	222	36.2	0	0.0	13	2.1	0	0.0	0	0.0	0	0.0	244	39.7
			Subtotal	0	0.0	4	0.7	274	44.7	0	0.0	39	6.4	0	0.0	283	46.1	0	0.0	13	2.1	0	0.0	0	0.0	0	0.0	614	100.0
	7/11 [f]	59	M	0	0.0	7	1.7	141	33.9	0	0.0	35	8.5	0	0.0	63	15.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	246	59.3
	(7/9, 11, 14)		F	0	0.0	0	0.0	42	10.2	0	0.0	7	1.7	0	0.0	120	28.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	169	40.7
			Subtotal	0	0.0	7	1.7	183	44.1	0	0.0	42	10.2	0	0.0	183	44.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	415	100.0
	7/18, 25 [e]	53	M	0	0.0	0	0.0	179	50.9	0	0.0	46	13.2	0	0.0	40	11.3	0	0.0	7	1.9	0	0.0	0	0.0	0	0.0	272	77.4
	(7/16, 18, 21, 23, 25, 28; 8/1, 4, 8, 11, 15, 20, 25)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	73	20.8	0	0.0	6	1.9	0	0.0	0	0.0	0	0.0	80	22.6
			Subtotal	0	0.0	0	0.0	179	50.9	0	0.0	46	13.2	0	0.0	113	32.1	0	0.0	13	3.8	0	0.0	0	0.0	0	0.0	352	100.0
	Season	471	M	0	0.0	17	0.9	908	44.5	0	0.0	215	10.5	0	0.0	233	11.5	0	0.0	9	0.5	0	0.0	0	0.0	0	0.0	1,384	67.9
			F	0	0.0	0	0.0	42	2.1	0	0.0	37	1.8	0	0.0	557	27.3	0	0.0	20	0.9	0	0.0	0	0.0	0	0.0	655	32.1
			Total	0	0.0	17	0.9	950	46.6	0	0.0	252	12.3	0	0.0	790	38.8	0	0.0	29	1.4	0	0.0	0	0.0	0	0.0	2,039	100.0
	Grand Total [g]	869	M	0	0.0	41	0.6	1,932	29.8	0	0.0	1,301	20.1	40	0.6	877	13.5	0	0.0	36	0.6	0	0.0	0	0.0	0	0.0	4,230	65.3
			F	0	0.0	0	0.0	329	5.1	0	0.0	573	8.8	0	0.0	1,207	18.6	0	0.0	78	1.2	59	0.9	0	0.0	4	0.1	2,250	34.7
			Total	0	0.0	41	0.6	2,261	34.9	0	0.0	1,874	28.9	40	0.6	2,085	32.2	0	0.0	114	1.8	59	0.9	0	0.0	4	0.1	6,479	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
c Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".
d No sample data is available for the 1996 season.
e Sex of all fish was confirmed by visual inspection of gonads.
f Sex of some fish was confirmed by visual inspection of gonads.
g The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 22. Mean length (mm) of chinook salmon from the District 5 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995[b]	6/29 (6/29)	M	Mean Length			542		716		839					
			Std. Error			6		11		12					
			Range			447- 695		612- 842		625- 957					
			Sample Size	0	0	88	0	24	0	39	0	0	0	0	0
		F	Mean Length			553		782		860		899			
			Std. Error			12		19		8		-			
			Range			456- 639		763- 800		672- 931		899- 899			
			Sample Size	0	0	17	0	2	0	42	0	1	0	0	0
1996			No data is available for the 1996 season.												
1997	6/27 [c] (6/27, 30)	M	Mean Length		410	578		702		849		1000			
			Std. Error		55	5		8		16		-			
			Range		355- 464	473- 711		575- 785		623- 963		000-1000			
			Sample Size	0	2	104	0	34	0	23	0	1	0	0	0
		F	Mean Length					791		873					
			Std. Error					28		7					
			Range					657- 878		664- 952					
			Sample Size	0	0	0	0	7	0	47	0	0	0	0	0
	7/4 [c] (7/2, 4, 7)	M	Mean Length		450	581		735		913					
			Std. Error		-	6		29		19					
			Range		450- 450	483- 698		605- 840		798-1030					
			Sample Size	0	1	63	0	7	0	14	0	0	0	0	0
		F	Mean Length					791		884		911			
			Std. Error					60		6		37			
			Range					731- 850		800- 970		853- 980			
			Sample Size	0	0	0	0	2	0	51	0	3	0	0	0
	7/11 [d] (7/9, 11, 14)	M	Mean Length		325	578		723		882					
			Std. Error		-	10		25		26					
			Range		325- 325	475- 665		650- 780		785-1030					
			Sample Size	0	1	20	0	5	0	9	0	0	0	0	0
		F	Mean Length			552		810		844					
			Std. Error			20		-		17					
			Range			505- 630		810- 810		620- 915					
			Sample Size	0	0	6	0	1	0	17	0	0	0	0	0

-continued-

Table 22. Mean length (mm) of chinook salmon from the District 5 commercial fishery (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1997 (cont.)	7/18, 25 [c] (7/16, 18, 21, 23, 25, 28; 8/1, 4, 8, 11, 15, 20, 25)	M	Mean Length			579		749		902		965			
			Std. Error			10		30		46		-			
			Range			510- 695		654- 852		720- 993		965- 965			
			Sample Size	0	0	27	0	7	0	6	0	1	0	0	0
		F	Mean Length							884		845			
			Std. Error							13		-			
			Range							810- 955		845- 845			
			Sample Size	0	0	0	0	0	0	11	0	1	0	0	0
	Season	M	Mean Length		386	579		720		884		976			
			Range		325- 464	473- 711		575- 852		623-1030		965-1000			
			Sample Size	0	4	214	0	53	0	52	0	2	0	0	0
		F	Mean Length			552		795		872		889			
			Range			505- 630		657- 878		620- 970		845- 980			
			Sample Size	0	0	6	0	10	0	126	0	4	0	0	0

a "Season" mean lengths are weighted by the commercial harvest in each stratum.
b Sampling dates do not meet criteria for estimating commercial harvest for some or all of the strata; "Season" is not included in "Grand Total".
c Sex of all fish was confirmed by visual inspection of gonads.
d Sex of some fish was confirmed by visual inspection of gonads.

Table 23. Age and sex of chinook salmon caught in the subsistence fishery near Bethel and Aniak with 15.2 cm (6.0 in) mesh drift gillnets.[a]

Year	Sample Date	Sample Size	Sex	Age Class																									
				0.2		1.1		1.2		0.4		1.3		2.2		1.4		2.3		1.5		2.4		1.6		2.5		Total	
				N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1993	6/8 - 10	105	M	0	0.0	0	0.0	71	67.6	0	0.0	23	21.9	0	0.0	4	3.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	98	93.3
			F	0	0.0	0	0.0	0	0.0	0	0.0	3	2.9	0	0.0	3	2.9	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	7	6.7
			Total	0	0.0	0	0.0	71	67.6	0	0.0	26	24.8	0	0.0	7	6.7	0	0.0	1	1.0	0	0.0	0	0.0	0	0.0	105	100.0

[a] The number of fish in each year age and sex category are the actual sample numbers; discrepancies in totals are attributed to rounding errors.

Table 24. Mean length (mm) of chinook salmon caught in the subsistence fishery near Bethel and Aniak with 15.2 cm (6.0 in) mesh drift gillnets.

Year	Sample Date	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1993	6/8 - 10	M	Mean Length			550		705		810					
			Std. Error			5		12		36					
			Range			430- 660		537- 800		730- 900					
			Sample Size	0	0	71	0	23	0	4	0	0	0	0	0
		F	Mean Length					794		887		900			
			Std. Error					86		44		-			
			Range					630- 921		800- 940		900- 900			
			Sample Size	0	0	0	0	3	0	3	0	1	0	0	0

Table 25. Age and sex of chinook salmon caught in the subsistence fishery near Bethel and Aniak with 20.3 cm (8.0 in) mesh drift gillnets.[a]

Year	Sample Date	Sample Size	Sex	Age Class 0.2 N	0.2 %	1.1 N	1.1 %	1.2 N	1.2 %	0.4 N	0.4 %	1.3 N	1.3 %	2.2 N	2.2 %	1.4 N	1.4 %	2.3 N	2.3 %	1.5 N	1.5 %	2.4 N	2.4 %	1.6 N	1.6 %	2.5 N	2.5 %	Total N	Total %
1993	5/31 - 6/4	111	M	0	0.0	0	0.0	11	9.9	0	0.0	29	26.0	0	0.0	22	19.8	0	0.0	2	1.8	0	0.0	0	0.0	0	0.0	64	58.0
			F	0	0.0	0	0.0	1	0.9	0	0.0	6	5.4	0	0.0	37	33.3	0	0.0	3	2.7	0	0.0	0	0.0	0	0.0	47	42.0
			Total	0	0.0	0	0.0	12	10.8	0	0.0	35	31.5	0	0.0	59	53.1	0	0.0	5	4.5	0	0.0	0	0.0	0	0.0	111	100.0
1994	6/13, 14, 16	83	M	0	0.0	0	0.0	2	2.4	0	0.0	29	34.9	1	1.2	9	10.8	2	2.4	0	0.0	0	0.0	0	0.0	0	0.0	43	51.8
			F	0	0.0	0	0.0	1	1.2	0	0.0	7	8.4	0	0.0	24	28.9	0	0.0	2	2.4	5	6.0	1	1.2	0	0.0	40	48.2
			Total	0	0.0	0	0.0	3	3.6	0	0.0	36	43.3	1	1.2	33	39.7	2	2.4	2	2.4	5	6.0	1	1.2	0	0.0	83	100.0
1995	6/2 - 7/1	250	M	0	0.0	0	0.0	1	0.4	0	0.0	27	10.8	0	0.0	114	45.6	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	144	57.6
			F	0	0.0	0	0.0	1	0.4	0	0.0	6	2.4	0	0.0	99	39.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	106	42.4
			Total	0	0.0	0	0.0	2	0.8	0	0.0	33	13.2	0	0.0	213	85.2	0	0.0	2	0.8	0	0.0	0	0.0	0	0.0	250	100.0
	Grand Total[b]	444	M	0	0.0	0	0.0	14	3.2	0	0.0	85	19.1	1	0.2	145	32.6	2	0.4	4	0.9	0	0.0	0	0.0	0	0.0	251	56.6
			F	0	0.0	0	0.0	3	0.7	0	0.0	19	4.3	0	0.0	160	36.0	0	0.0	5	1.1	5	1.1	1	0.2	0	0.0	193	43.4
			Total	0	0.0	0	0.0	17	3.8	0	0.0	104	23.4	1	0.2	305	68.7	2	0.4	9	2.0	5	1.1	1	0.2	0	0.0	444	100.0

[a] The number of fish in each year age and sex category are the actual sample numbers; discrepancies in totals are attributed to rounding errors.
[b] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 26. Mean length (mm) of chinook salmon caught in the subsistence fishery near Bethel and Aniak with 20.3 cm (8.0 in) mesh drift gillnets.

Year	Sample Date	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/2 - 7/1	M	Mean Length			690		762		809		840			
			Std. Error			-		19		8		130			
			Range			690- 690		565- 995		530- 1017		710- 970			
			Sample Size	0	0	1	0	27	0	114	0	0	0	0	0
		F	Mean Length			905		779		849					
			Std. Error			-		30		7					
			Range			905- 905		689- 860		685- 1002					
			Sample Size	0	0	1	0	6	0	99	0	0	0	0	0

Table 27. Age and sex of chinook salmon caught in the subsistence fishery near Bethel with 21.6 cm (8.5 in) mesh drift gillnets.[a]

Year	Sample Date	Sample Size	Sex	Age Class																									
				0.2		1.1		1.2		0.4		1.3		2.2		1.4		2.3		1.5		2.4		1.6		2.5		Total	
				N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1995	6/8 - 16	46	M	0	0.0	0	0.0	1	2.2	0	0.0	3	6.5	0	0.0	23	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	27	58.7
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	39.1	0	0.0	1	2.2	0	0.0	0	0.0	0	0.0	19	41.3
			Total	0	0.0	0	0.0	1	2.2	0	0.0	3	6.5	0	0.0	41	89.1	0	0.0	1	2.2	0	0.0	0	0.0	0	0.0	46	100.0

[a] The number of fish in each year age and sex category are the actual sample numbers; discrepancies in totals are attributed to rounding errors.

Table 28. Mean length (mm) of chinook salmon caught in the subsistence fishery near Bethel with 21.6 cm (8.5 in) mesh drift gillnets.

Year	Sample Date	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/8 - 16	M	Mean Length			520		762		840					
			Std. Error			-		9		16					
			Range			520- 520		744- 772		732- 973					
			Sample Size	0	0	1	0	3	0	23	0	0	0	0	0
		F	Mean Length							854		871			
			Std. Error							13		-			
			Range							696- 932		871- 871			
			Sample Size	0	0	0	0	0	0	18	0	1	0	0	0

Table 29. Age and sex of chinook salmon caught in the subsistence fishery near Bethel with 15.2 cm (6.0 in) mesh set gillnets.[a]

Year	Sample Date	Sample Size	Sex	Age Class																									
				0.2		1.1		1.2		0.4		1.3		2.2		1.4		2.3		1.5		2.4		1.6		2.5		Total	
				N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1994	5/30; 6/6-12, 25-26	51	M	0	0.0	0	0.0	2	3.9	0	0.0	30	58.8	0	0.0	5	9.8	0	0.0	1	2.0	0	0.0	0	0.0	0	0.0	39	76.5
			F	0	0.0	0	0.0	0	0.0	0	0.0	6	11.8	0	0.0	5	9.8	0	0.0	0	0.0	1	2.0	0	0.0	0	0.0	12	23.5
			Total	0	0.0	0	0.0	2	3.9	0	0.0	36	70.6	0	0.0	10	19.6	0	0.0	1	2.0	1	2.0	0	0.0	0	0.0	51	100.0

[a] The number of fish in each year age and sex category are the actual sample numbers; discrepancies in totals are attributed to rounding errors.

Table 30. Mean length (mm) of chinook salmon caught in the subsistence fishery near Bethel with 15.2 cm (6.0 in) mesh set gillnets.

Year	Sample Date	Sex		Age Class											
				0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1994	5/30, 6/6-12, 25-26	M	Mean Length			663		749		836		990			
			Std. Error			108		9		22		-			
			Range			555-770		660-870		810-900		990-990			
			Sample Size	0	0	2	0	30	0	4	0	1	0	0	0
		F	Mean Length					805		863			915		
			Std. Error					20		22			-		
			Range					740-865		810-910			915-915		
			Sample Size	0	0	0	0	6	0	5	0	0	1	0	0

Table 31. Age and sex of chinook salmon caught in the subsistence fishery near Bethel with 20.3 cm (8.0 in) mesh set gillnets.[a]

Year	Sample Date	Sample Size	Sex	Age Class																									
				0.2		1.1		1.2		0.4		1.3		2.2		1.4		2.3		1.5		2.4		1.6		2.5		Total	
				N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1995	6/9 - 7/13	84	M	0	0.0	0	0.0	4	4.8	0	0.0	4	4.8	0	0.0	43	51.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	51	60.8
			F	0	0.0	0	0.0	0	0.0	0	0.0	2	2.4	0	0.0	31	36.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	33	39.3
			Total	0	0.0	0	0.0	4	4.8	0	0.0	6	7.2	0	0.0	74	88.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	84	100.1

[a] The number of fish in each year age and sex category are the actual sample numbers; discrepancies in totals are attributed to rounding errors.

Table 32. Mean length (mm) of chinook salmon caught in the subsistence fishery near Bethel with 20.3 cm (8.0 in) mesh set gillnets.

Year	Sample Date	Sex		Age Class 0.2	1.1	1.2	2.1	1.3	2.2	1.4	2.3	1.5	2.4	1.6	2.5
1995	6/9 - 7/13	M	Mean Length			527		767		837					
			Std. Error			22		21		9					
			Range			470- 572		717- 807		737- 977					
			Sample Size	0	0	4	0	4	0	43	0	0	0	0	0
		F	Mean Length					842		857					
			Std. Error					74		7					
			Range					768- 915		787- 927					
			Sample Size	0	0	0	0	2	0	31	0	0	0	0	0

Sockeye Salmon

Table 33. Age and sex of sockeye salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc	0.2 %	1.1 Esc	1.1 %	0.3 Esc	0.3 %	1.2 Esc.	1.2 %	0.4 Esc.	0.4 %	1.3 Esc	1.3 %	2.2 Esc	2.2 %	1.4 Esc.	1.4 %	2.3 Esc	2.3 %	2.4 Esc.	2.4 %	3.3 Esc	3.3 %	Total Esc.	Total %
1991	7/18-22, 29-30; 8/4-5, 8, 12-13, 20 (7/18 - 8/13)	20	M	0	0.0	0	0.0	0	0.0	7	20.0	0	0.0	9	25.0	5	15.0	0	0.0	2	5.0	0	0.0	0	0.0	22	65.0
			F	0	0.0	0	0.0	0	0.0	3	10.0	0	0.0	2	5.0	3	10.0	2	5.0	2	5.0	0	0.0	0	0.0	12	35.0
			Total	0	0.0	0	0.0	0	0.0	10	30.0	0	0.0	10	30.0	9	25.0	2	5.0	3	10.0	0	0.0	0	0.0	34	100.0
1992	7/14, 16, 20-24, 28-29; 8/7, 10, 11, 17; 9/3, (7/4 - 9/3)	29	M	4	3.4	0	0.0	0	0.0	4	3.4	0	0.0	71	55.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	80	62.1
			F	0	0.0	0	0.0	4	3.4	9	6.9	0	0.0	36	27.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	49	37.9
			Total	4	3.4	0	0.0	4	3.4	13	10.3	0	0.0	107	82.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	129	100.0
1993	Season	33	M	3	3.0	0	0.0	5	6.1	13	15.2	0	0.0	24	27.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	45	51.5
			F	0	0.0	0	0.0	5	6.1	8	9.1	0	0.0	24	27.3	0	0.0	0	0.0	5	6.1	0	0.0	0	0.0	43	48.5
			Total	3	3.0	0	0.0	11	12.2	21	24.3	0	0.0	48	54.6	0	0.0	0	0.0	5	6.1	0	0.0	0	0.0	88	100.0
1994	7/17-18, 24-2 8/10, 15, 18 (Season)	18	M	0	0.0	0	0.0	0	0.0	9	11.1	0	0.0	0	0.0	0	0.0	0	0.0	4	5.6	0	0.0	0	0.0	13	16.7
			F	0	0.0	0	0.0	0	0.0	13	16.7	0	0.0	44	55.6	0	0.0	0	0.0	9	11.1	0	0.0	0	0.0	67	83.3
			Total	0	0.0	0	0.0	0	0.0	22	27.8	0	0.0	44	55.6	0	0.0	0	0.0	13	16.7	0	0.0	0	0.0	80	100.0
	Grand Total [b]	100	M	7	2.1	0	0.0	5	1.6	33	10.1	0	0.0	104	31.3	5	1.5	0	0.0	6	1.9	0	0.0	0	0.0	161	48.6
			F	0	0.0	0	0.0	10	2.9	34	10.2	0	0.0	106	32.0	3	1.0	2	0.5	16	4.8	0	0.0	0	0.0	170	51.4
			Total	7	2.1	0	0.0	15	4.6	67	20.3	0	0.0	210	63.3	9	2.6	2	0.5	22	6.7	0	0.0	0	0.0	331	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 34. Mean length (mm) of sockeye salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1991	7/18-22, 29-30; 8/4-5, 8, 12-13, 20 (7/18 - 8/13)	M	Mean Length				569		599	573		560		
			Std. Error				7		16	28		-		
			Range				555- 590		555- 640	530- 625		560- 560		
			Sample Size	0	0	0	4	0	5	3	0	1	0	0
		F	Mean Length				528		460	488	500	500		
			Std. Error				8		-	48	-	-		
			Range				520- 535		460- 460	440- 535	500- 500	500- 500		
			Sample Size	0	0	0	2	0	1	2	1	1	0	0
1992	7/14, 16, 20-24, 28-29; 8/7, 10, 11, 17; 9/3, (7/4 - 9/3)	M	Mean Length	540			496		589					
			Std. Error	-			-		4					
			Range	540- 540			496- 496		558- 620					
			Sample Size	1	0	0	1	0	16	0	0	0	0	0
		F	Mean Length			505	515		542					
			Std. Error			-	15		7					
			Range			505- 505	500- 530		507- 565					
			Sample Size	0	0	1	2	0	8	0	0	0	0	0
1993	Season	M	Mean Length	420		476	433		575					
			Std. Error	-		123	37		10					
			Range	420-420		355- 600	370- 575		510- 615					
			Sample Size	1	0	2	5	0	9	0	0	0	0	0
		F	Mean Length			560	538		524			535		
			Std. Error			10	14		9			5		
			Range			550- 570	510- 555		485- 580			530- 540		
			Sample Size	0	0	2	3	0	9	0	0	2	0	0
1994	7/17-18, 24-25; 8/10, 15, 18 (Season)	M	Mean Length				545					435		
			Std. Error				65					-		
			Range				480- 610					435- 435		
			Sample Size	0	0	0	2	0	0	0	0	1	0	0
		F	Mean Length				497		522			528		
			Std. Error				44		6			13		
			Range				410- 550		490- 550			515- 540		
			Sample Size	0	0	0	3	0	10	0	0	2	0	0
	Grand Total [b]	M	Mean Length	480		478	511		588	573		498		
			Range	420- 540		355- 600	370-610		555- 640	530- 625		435- 560		
			Sample Size	2	0	2	12	0	30	3	0	2	0	0
		F	Mean Length			533	519		512	488	500	521		
			Range			505- 570	410- 555		460- 580	440- 535	500- 500	515- 550		
			Sample Size	0	0	3	10	0	28	2	1	5	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 35. Age and sex of sockeye salmon at the Kwethluk River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc	0.2 %	1.1 Esc	1.1 %	0.3 Esc.	0.3 %	1.2 Esc	1.2 %	0.4 Esc.	0.4 %	1.3 Esc	1.3 %	2.2 Esc.	2.2 %	1.4 Esc	1.4 %	2.3 Esc.	2.3 %	2.4 Esc	2.4 %	3.3 Esc.	3.3 %	Total Esc.	Total %
1992	6/24 - 25	88	M	0	0.0	0	0.0	0	0.0	3	1.1	0	0.0	78	25.0	3	1.1	3	1.1	3	1.1	0	0.0	0	0.0	92	29.5
	(6/24 - 27)		F	0	0.0	0	0.0	11	3.4	11	3.4	0	0.0	182	58.0	0	0.0	11	3.4	7	2.3	0	0.0	0	0.0	221	70.5
			Subtotal	0	0.0	0	0.0	11	3.4	14	4.5	0	0.0	260	83.0	3	1.1	14	4.5	11	3.4	0	0.0	0	0.0	313	100.0
	6/28-30; 7/1-2	83	M	0	0.0	0	0.0	9	2.4	27	7.2	4	1.2	85	22.9	0	0.0	0	0.0	9	2.4	0	0.0	0	0.0	134	36.1
	(6/28 - 7/4)		F	0	0.0	0	0.0	4	1.2	13	3.6	0	0.0	206	55.4	0	0.0	4	1.2	9	2.4	0	0.0	0	0.0	237	63.9
			Subtotal	0	0.0	0	0.0	13	3.6	40	10.8	4	1.2	290	78.3	0	0.0	4	1.2	18	4.8	0	0.0	0	0.0	371	100.0
	7/5 - 6, 13 - 15	60	M	0	0.0	0	0.0	0	0.0	50	10.0	9	1.7	159	31.7	0	0.0	9	1.7	17	3.3	0	0.0	0	0.0	243	48.3
	19 - 21		F	0	0.0	0	0.0	34	6.7	34	6.7	0	0.0	142	28.3	17	3.3	25	5.0	9	1.7	0	0.0	0	0.0	260	51.7
	(7/5 - 25)		Subtotal	0	0.0	0	0.0	34	6.7	84	16.7	9	1.7	302	60.0	17	3.3	34	6.7	25	5.0	0	0.0	0	0.0	503	100.0
	7/27-31; 8/3-6,	41	M	4	2.4	0	0.0	9	4.9	27	14.6	0	0.0	36	19.5	4	2.4	4	2.4	0	0.0	0	0.0	0	0.0	86	46.3
	11, 15, 17		F	4	2.4	0	0.0	18	9.8	23	12.2	4	2.4	50	26.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	100	53.7
	(7-26 - 8/18)		Subtotal	9	4.8	0	0.0	27	14.7	50	26.8	4	2.4	86	46.3	4	2.4	4	2.4	0	0.0	0	0.0	0	0.0	186	100.0
	Season	272	M	4	0.3	0	0.0	18	1.3	108	7.8	13	0.9	359	26.1	8	0.6	16	1.2	29	2.1	0	0.0	0	0.0	555	40.4
			F	4	0.3	0	0.0	67	4.9	80	5.9	4	0.3	579	42.2	17	1.2	40	2.9	25	1.8	0	0.0	0	0.0	818	59.6
			Total	9	0.7	0	0.0	85	6.2	188	13.7	17	1.3	938	68.3	25	1.8	57	4.1	54	3.9	0	0.0	0	0.0	1,373	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 36. Mean length (mm) of sockeye salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1992	6/24 - 25 (6/24 - 27)	M	Mean Length				520		553	460	600	580		
			Std. Error				-		4	-	-	-		
			Range				520- 520		510- 590	460- 460	600- 600	580- 580		
			Sample Size	0	0	0	1	0	22	1	1	1	0	0
		F	Mean Length			493	450		514		538	515		
			Std. Error			10	8		3		9	10		
			Range			475- 510	435- 460		450- 560		525- 555	505- 525		
			Sample Size	0	0	3	3	0	51	0	3	2	0	0
	6/28-30; 7/1-2 (6/28 - 7/4)	M	Mean Length			598	410	595	547			530		
			Std. Error			13	6	-	6			45		
			Range			585- 610	390- 425	595- 595	470- 585			485- 575		
			Sample Size	0	0	2	6	1	19	0	0	2	0	0
		F	Mean Length			465	462		504		525	505		
			Std. Error			-	9		4		-	10		
			Range			465-465	450- 480		430- 550		525- 525	495- 515		
			Sample Size	0	0	1	3	0	46	0	1	2	0	0
	7/5 - 6, 13 - 15, 19 - 21 (7/5 - 25)	M	Mean Length				409	515	562		600	555		
			Std. Error				11	-	7		-	15		
			Range				370- 450	515- 515	460- 595		600- 600	540- 570		
			Sample Size	0	0	0	6	1	19	0	1	2	0	0
		F	Mean Length			511	471		516	478	570	510		
			Std. Error			14	10		7	8	21	-		
			Range			484- 585	455- 500		445- 550	470- 485	540- 610	510- 510		
			Sample Size	0	0	4	4	0	17	2	3	1	0	0
	7/27-31; 8/3-6, 11, 15, 17 (7-26 - 8/18)	M	Mean Length	390		570	482		583	590	625			
			Std. Error	0		15	18		8	-	-			
			Range	390- 390		555- 585	445- 550		555- 610	590- 590	625- 625			
			Sample Size	1	0	2	6	0	8	1	1	0	0	0
		F	Mean Length	485		478	460	535	529					
			Std. Error	0		23	18	-	7					
			Range	485- 485		430- 540	410- 520	535- 535	494- 570					
			Sample Size	1	0	4	5	1	11	0	0	0	0	0
	Season	M	Mean Length	390		584	431	542	558	533	607	550		
			Range	390- 390		555- 610	370- 550	515- 595	460- 610	460- 590	600- 625	485- 580		
			Sample Size	1	0	4	19	2	68	2	3	5	0	0
		F	Mean Length	485		496	464	535	512	533	557	510		
			Range	485- 485		430- 454	410- 520	535- 535	430- 570	470- 485	562- 610	495- 525		
			Sample Size	1	0	12	15	1	125	2	7	5	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 37. Age and sex of sockeye salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	0.3 Esc.	0.3 %	1.2 Esc.	1.2 %	0.4 Esc.	0.4 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	2.4 Esc.	2.4 %	3.3 Esc.	3.3 %	Total Esc.	Total %
1997	6/19, 22, 24-26	46	M	0	0.0	0	0.0	109	2.2	326	6.5	326	6.5	1,737	34.8	0	0.0	109	2.2	108	2.2	0	0.0	0	0.0	2,713	54.3
	(6/19 - 26)		F	0	0.0	0	0.0	434	8.7	108	2.2	0	0.0	1,302	26.1	0	0.0	108	2.1	326	6.5	0	0.0	0	0.0	2,279	45.7
			Subtotal	0	0.0	0	0.0	543	10.9	434	8.7	326	6.5	3,039	60.9	0	0.0	217	4.3	434	8.7	0	0.0	0	0.0	4,992	100.0
	6/28, 30, 7/1	143	M	0	0.0	0	0.0	548	2.8	821	4.2	410	2.1	6,842	35.0	0	0.0	411	2.1	684	3.5	0	0.0	0	0.0	9,715	49.7
	(6/27 - 7/3)		F	0	0.0	0	0.0	547	2.8	410	2.1	821	4.2	6,841	34.9	0	0.0	684	3.5	547	2.8	0	0.0	0	0.0	9,851	50.3
			Subtotal	0	0.0	0	0.0	1,095	5.6	1,231	6.3	1,231	6.3	13,683	69.9	0	0.0	1,095	5.6	1,231	6.3	0	0.0	0	0.0	19,566	100.0
	7/5, 6, 8, 9	181	M	0	0.0	0	0.0	1,860	5.0	2,274	6.1	620	1.6	13,437	35.9	207	0.6	827	2.2	1,447	3.9	0	0.0	0	0.0	20,672	55.2
	(7/4 - 11)		F	207	0.6	207	0.6	0	0.0	2,894	7.7	1,034	2.8	10,336	27.6	0	0.0	620	1.7	1,447	3.8	0	0.0	0	0.0	16,744	44.8
			Subtotal	207	0.6	207	0.6	1,860	5.0	5,168	13.8	1,654	4.4	23,773	63.5	207	0.6	1,447	3.9	2,894	7.7	0	0.0	0	0.0	37,416	100.0
	7/14-15, 17-18	193	M	0	0.0	0	0.0	776	3.6	3,436	16.0	111	0.5	4,324	20.2	0	0.0	0	0.0	333	1.5	0	0.0	0	0.0	8,980	42.0
	(7/12 - 19)		F	0	0.0	111	0.5	333	1.6	6,541	30.6	332	1.6	3,991	18.7	0	0.0	554	2.6	554	2.6	0	0.0	0	0.0	12,416	58.0
			Subtotal	0	0.0	111	0.5	1,109	5.2	9,977	46.6	443	2.1	8,315	38.9	0	0.0	554	2.6	887	4.1	0	0.0	0	0.0	21,396	100.0
	7/21 - 23	66	M	0	0.0	0	0.0	327	4.6	1,090	15.2	109	1.5	981	13.6	0	0.0	218	3.1	218	3.0	0	0.0	0	0.0	2,943	40.9
	(7/20 - 25)		F	0	0.0	0	0.0	109	1.5	2,180	30.3	0	0.0	1,308	18.2	109	1.5	218	3.0	327	4.6	0	0.0	0	0.0	4,251	59.1
			Subtotal	0	0.0	0	0.0	436	6.1	3,270	45.5	109	1.5	2,289	31.8	109	1.5	436	6.1	545	7.6	0	0.0	0	0.0	7,194	100.0
	7/28- 31, 8/1,	111	M	0	0.0	0	0.0	54	0.9	967	16.2	107	1.8	967	16.2	54	0.9	161	2.7	54	0.9	0	0.0	0	0.0	2,364	39.6
	5, 8, 11, 12		F	0	0.0	0	0.0	53	0.9	2,418	40.6	0	0.0	752	12.6	53	0.9	161	2.7	161	2.7	0	0.0	0	0.0	3,600	60.4
	(7/26 - 8/20)		Subtotal	0	0.0	0	0.0	107	1.8	3,385	56.8	107	1.8	1,719	28.8	107	1.8	322	5.4	215	3.6	0	0.0	0	0.0	5,964	100.0
	Season	740	M	0	0.0	0	0.0	3,673	3.8	8,914	9.2	1,684	1.7	28,286	29.3	260	0.3	1,725	1.8	2,844	2.9	0	0.0	0	0.0	47,386	49.1
			F	207	0.2	318	0.3	1,477	1.5	14,552	15.1	2,187	2.3	24,531	25.4	163	0.1	2,346	2.4	3,362	3.5	0	0.0	0	0.0	49,142	50.9
			Total	207	0.2	318	0.3	5,150	5.3	23,466	24.3	3,871	4.0	52,817	54.7	423	0.4	4,071	4.2	6,206	6.4	0	0.0	0	0.0	96,528	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 38. Mean length (mm) of sockeye salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997	6/19, 22, 24-26 (6/19 - 26)	M	Mean Length			585	489	611	581		585	610		
			Std. Error			-	46	14	6		-	-		
			Range			585- 585	398- 548	588- 635	539- 612		585- 585	610- 610		
			Sample Size	0	0	1	3	3	16	0	1	1	0	0
		F	Mean Length			540	455		558		598	534		
			Std. Error			6	-		9		-	20		
			Range			525- 552	455- 455		495- 597		598- 598	495- 558		
			Sample Size	0	0	4	1	0	12	0	1	3	0	0
	6/28, 30, 7/1 (6/27 - 7/3)	M	Mean Length			562	522	631	595		602	605		
			Std. Error			18	19	31	4		11	2		
			Range			510- 590	440- 569	572- 675	528- 655		583- 620	600- 610		
			Sample Size	0	0	4	6	3	50	0	3	5	0	0
		F	Mean Length			562	521	598	559		571	545		
			Std. Error			8	24	17	3		9	5		
			Range			550- 582	485- 567	557- 678	510- 610		542- 600	530- 555		
			Sample Size	0	0	4	3	6	50	0	5	4	0	0
	7/5, 6, 8, 9 (7/4 - 11)	M	Mean Length			582	532	604	593	540	623	591		
			Std. Error			14	5	10	3	-	8	10		
			Range			487- 637	505- 558	585- 617	518- 640	540- 540	605- 645	550- 622		
			Sample Size	0	0	9	11	3	65	1	4	7	0	0
		F	Mean Length	473	482		511	592	556		579	547		
			Std. Error	-	-		8	8	3		12	5		
			Range	473- 473	482- 482		460- 595	564- 611	504- 594		560- 600	532- 570		
			Sample Size	1	1	0	14	5	50	0	3	7	0	0
	7/14-15, 17-18 (7/12 - 19)	M	Mean Length			584	525	620	576			544		
			Std. Error			11	6	-	5			15		
			Range			555- 645	430- 598	620- 620	500- 660			515- 560		
			Sample Size	0	0	7	31	1	39	0	0	3	0	0
		F	Mean Length		330	513	501	570	551		570	551		
			Std. Error		-	9	4	9	4		13	17		
			Range		330- 330	500- 530	435- 606	553- 580	520- 607		535- 600	500- 590		
			Sample Size	0	1	3	59	3	36	0	5	5	0	0
	7/21 - 23 (7/20 - 25)	M	Mean Length			615	533	620	576		573	607		
			Std. Error			25	13	-	12		23	24		
			Range			590- 666	473- 590	620- 620	535- 630		550- 595	583- 630		
			Sample Size	0	0	3	10	1	9	0	2	2	0	0
		F	Mean Length			530	503		550	480	578	545		
			Std. Error			-	8		6	-	3	16		
			Range			530- 530	450- 587		520- 570	480- 480	575- 580	512- 562		
			Sample Size	0	0	1	20	0	12	1	2	3	0	0

-continued-

Table 38. Mean length (mm) of sockeye salmon at the Kanektok River tower based on escapement samples collected with a beach seine (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997 (cont.)	7/28 - 31, 8/1, 5, 8, 11, 12 (7/26 - 8/20)	M	Mean Length			638	516	608	577	536	592	557		
			Std. Error			-	6	13	7	-	11	-		
			Range			638- 638	485- 570	595- 620	498- 655	536- 536	570- 605	557- 557		
			Sample Size	0	0	1	18	2	18	1	3	1	0	0
		F	Mean Length			520	484		541	480	568	541		
			Std. Error			-	4		6	-	7	10		
			Range			520- 520	427- 575		502- 575	480- 480	555- 578	530- 562		
			Sample Size	0	0	1	45	0	14	1	3	3	0	0
	Season	M	Mean Length			583	525	614	589	539	606	590		
			Range			487- 666	398- 598	572- 675	498- 660	536- 540	550- 645	515- 630		
			Sample Size	0	0	25	79	13	197	2	13	19	0	0
		F	Mean Length	473	429	541	501	591	555	480	575	546		
			Range	473- 473	330- 482	500- 582	427- 606	553- 678	495- 610	480- 480	535- 600	495- 590		
			Sample Size	1	2	13	142	14	174	2	19	25	0	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 39. Age and sex of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	0.3 Esc.	0.3 %	1.2 Esc.	1.2 %	0.4 Esc.	0.4 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	2.4 Esc.	2.4 %	3.3 Esc.	3.3 %	Total Esc.	Total %
1990	6/28	28	M	0	0.0	0	0.0	291	3.6	582	7.1	0	0.0	2,327	28.6	291	3.6	0	0.0	873	10.7	0	0.0	0	0.0	4,363	53.6
	(6/20 - 7/2)		F	0	0.0	0	0.0	291	3.6	0	0.0	0	0.0	3,199	39.3	0	0.0	0	0.0	291	3.6	0	0.0	0	0.0	3,781	46.4
			Subtotal	0	0.0	0	0.0	582	7.1	582	7.1	0	0.0	5,526	67.9	291	3.6	0	0.0	1,163	14.3	0	0.0	0	0.0	8,144	100.0
	7/6, 7, 10, 12	22	M	0	0.0	0	0.0	4,443	22.7	885	4.5	0	0.0	4,443	22.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,771	50.0
	(7/3 - 14)		F	0	0.0	0	0.0	885	4.5	885	4.5	0	0.0	6,221	31.8	0	0.0	0	0.0	1,784	9.1	0	0.0	0	0.0	9,776	50.0
			Subtotal	0	0.0	0	0.0	5,328	27.3	1,771	9.1	0	0.0	10,664	54.6	0	0.0	0	0.0	1,784	9.1	0	0.0	0	0.0	19,545	100.0
	7/17, 20, 21	67	M	60	1.5	239	6.0	119	3.0	1,073	26.9	0	0.0	595	14.9	119	3.0	59	1.5	0	0.0	0	0.0	0	0.0	2,263	56.7
	(7/15 - 7/24)		F	239	6.0	0	0.0	118	3.0	655	16.4	0	0.0	595	14.9	59	1.5	59	1.5	0	0.0	0	0.0	0	0.0	1,726	43.3
			Subtotal	299	7.5	239	6.0	237	5.9	1,728	43.3	0	0.0	1,189	29.8	178	4.5	118	3.0	0	0.0	0	0.0	0	0.0	3,990	100.0
	Season	117	M	60	0.2	239	0.6	4,852	15.3	2,540	8.0	0	0.0	7,364	23.2	409	1.3	59	0.2	873	2.8	0	0.0	0	0.0	16,397	51.8
			F	239	0.8	0	0.0	1,295	4.1	1,541	4.9	0	0.0	10,015	31.6	59	0.2	59	0.2	2,075	6.6	0	0.0	0	0.0	15,283	48.2
			Total	299	0.9	239	0.8	6,147	19.4	4,081	12.9	0	0.0	17,379	54.9	468	1.5	118	0.4	2,948	9.3	0	0.0	0	0.0	31,679	100.0
1991[c]	(6/28 - 7/4)	0	M																								
			F																								
			Subtotal																							17,416	
	7/8- 10, 12, 14	99	M	0	0.0	0	0.0	193	1.0	1,161	6.1	0	0.0	8,127	42.4	0	0.0	193	1.0	0	0.0	0	0.0	0	0.0	9,675	50.5
	(7/5 - 7/14)		F	0	0.0	0	0.0	387	2.0	193	1.0	0	0.0	8,901	46.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,481	49.5
			Subtotal	0	0.0	0	0.0	580	3.0	1,354	7.1	0	0.0	17,028	88.9	0	0.0	193	1.0	0	0.0	0	0.0	0	0.0	19,156	100.0
	7/15 - 21	95	M	88	1.1	0	0.0	88	1.1	0	0.0	0	0.0	3,120	37.9	0	0.0	0	0.0	88	1.1	0	0.0	0	0.0	3,385	41.1
	(7/15 - 22)		F	0	0.0	0	0.0	171	2.1	434	5.3	0	0.0	4,076	49.5	0	0.0	0	0.0	171	2.1	0	0.0	0	0.0	4,851	58.9
			Subtotal	88	1.1	0	0.0	259	3.1	434	5.3	0	0.0	7,196	87.3	0	0.0	0	0.0	259	3.1	0	0.0	0	0.0	8,239	100.0
	7/23 - 25,	78	M	34	1.3	0	0.0	34	1.3	132	5.1	34	1.3	564	21.8	0	0.0	98	3.8	34	1.3	0	0.0	0	0.0	928	35.9
	27, 28		F	34	1.3	0	0.0	34	1.3	132	5.1	0	0.0	1,259	48.7	98	3.8	67	2.6	34	1.3	0	0.0	0	0.0	1,658	64.1
	(7/23 - 8/25)		Subtotal	67	2.6	0	0.0	67	2.6	264	10.2	34	1.3	1,823	70.5	98	3.8	166	6.4	67	2.6	0	0.0	0	0.0	2,586	100.0
	Season	272	M																								
			F																								
			Total																							47,397	
1992[c]	(6/21 - 7/6)	0	M																								
			F																								
			Subtotal																							11,885	
	7/10, 11	31	M	163	3.2	0	0.0	0	0.0	658	12.9	0	0.0	1,810	35.5	0	0.0	163	3.2	0	0.0	0	0.0	0	0.0	2,794	54.8
	(7/7 - 11)		F	0	0.0	0	0.0	0	0.0	821	16.1	0	0.0	989	19.4	163	3.2	331	6.5	0	0.0	0	0.0	0	0.0	2,305	45.2
			Subtotal	163	3.2	0	0.0	0	0.0	1,479	29.0	0	0.0	2,799	54.9	163	3.2	495	9.7	0	0.0	0	0.0	0	0.0	5,099	100.0
	7/13, 16, 17, 19	74	M	0	0.0	0	0.0	0	0.0	850	12.2	0	0.0	1,603	23.0	0	0.0	96	1.4	0	0.0	0	0.0	0	0.0	2,549	36.5
	(7/12 - 19)		F	96	1.4	0	0.0	0	0.0	1,317	18.9	0	0.0	2,259	32.4	96	1.4	473	6.8	187	2.7	0	0.0	0	0.0	4,428	63.5
			Subtotal	96	1.4	0	0.0	0	0.0	2,167	31.1	0	0.0	3,862	55.4	96	1.4	569	8.2	187	2.7	0	0.0	0	0.0	6,976	100.0
	7/21, 22, 24	39	M	0	0.0	0	0.0	0	0.0	360	15.4	0	0.0	721	30.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,081	46.2
	(7/20 - 26)		F	0	0.0	0	0.0	0	0.0	840	35.9	0	0.0	299	12.8	0	0.0	60	2.6	60	2.6	0	0.0	0	0.0	1,259	53.8
			Subtotal	0	0.0	0	0.0	0	0.0	1,200	51.3	0	0.0	1,020	43.6	0	0.0	60	2.6	60	2.6	0	0.0	0	0.0	2,340	100.0

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Table 39. Age and sex of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	0.3 Esc.	0.3 %	1.2 Esc.	1.2 %	0.4 Esc.	0.4 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	2.4 Esc.	2.4 %	3.3 Esc.	3.3 %	Total Esc.	Total %
1992 (cont.)	7/29, 31; 8/2 (7/27 - 8/17)	60	M	16	1.7	0	0.0	0	0.0	97	10.0	0	0.0	161	16.7	0	0.0	16	1.7	0	0.0	0	0.0	0	0.0	290	30.0
			F	0	0.0	0	0.0	0	0.0	338	35.0	0	0.0	322	33.3	0	0.0	16	1.7	0	0.0	0	0.0	0	0.0	677	70.0
			Subtotal	16	1.7	0	0.0	0	0.0	435	45.0	0	0.0	483	50.0	0	0.0	32	3.4	0	0.0	0	0.0	0	0.0	967	100.0
	Season	204	M																								
			F																								
			Total																							27,267	
1993	6/24, 25, 27 (6/22 - 28)	154	M	0	0.0	0	0.0	30	0.6	153	3.2	0	0.0	1,414	29.9	0	0.0	30	0.6	91	1.9	30	0.6	0	0.0	1,747	37.0
			F	30	0.6	0	0.0	124	2.6	247	5.2	0	0.0	2,454	51.9	0	0.0	91	1.9	30	0.6	0	0.0	0	0.0	2,978	63.0
			Subtotal	30	0.6	0	0.0	154	3.3	400	8.5	0	0.0	3,868	81.9	0	0.0	121	2.6	121	2.6	30	0.6	0	0.0	4,725	100.0
	7/1 (6/29 - 7/8)	19	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,941	42.1	0	0.0	0	0.0	244	5.3	0	0.0	0	0.0	2,185	47.4
			F	0	0.0	0	0.0	244	5.3	244	5.3	0	0.0	1,695	36.8	0	0.0	244	5.3	0	0.0	0	0.0	0	0.0	2,427	52.6
			Subtotal	0	0.0	0	0.0	244	5.3	244	5.3	0	0.0	3,637	78.9	0	0.0	244	5.3	244	5.3	0	0.0	0	0.0	4,611	100.0
	7/13 (7/7 - 8/10)	139	M	120	0.7	0	0.0	374	2.2	1,708	10.1	120	0.7	4,011	23.7	120	0.7	238	1.4	120	0.7	0	0.0	0	0.0	6,811	40.3
			F	0	0.0	120	0.7	847	5.0	3,889	23.0	0	0.0	4,264	25.2	238	1.4	492	2.9	238	1.4	0	0.0	0	0.0	10,089	59.7
			Subtotal	120	0.7	120	0.7	1,221	7.2	5,597	33.1	120	0.7	8,275	48.9	358	2.1	730	4.3	358	2.1	0	0.0	0	0.0	16,908	100.0
	Season	312	M	120	0.5	0	0.0	403	1.5	1,860	7.1	120	0.5	7,366	28.1	120	0.5	268	1.0	455	1.7	30	0.1	0	0.0	10,743	40.9
			F	30	0.1	120	0.5	1,215	4.6	4,380	16.7	0	0.0	8,413	32.1	238	0.9	827	3.2	268	1.0	0	0.0	0	0.0	15,492	59.0
			Total	150	0.6	120	0.5	1,619	6.2	6,240	23.8	120	0.5	15,779	60.1	358	1.4	1,095	4.2	723	2.8	30	0.1	0	0.0	26,244	100.0
1994[c]	6/30 (6/22 - 7/5)	160	M	0	0.0	0	0.0	119	0.6	0	0.0	0	0.0	8,421	44.4	237	1.3	830	4.4	0	0.0	0	0.0	0	0.0	9,607	50.6
			F	0	0.0	0	0.0	474	2.5	356	1.9	0	0.0	8,183	43.1	0	0.0	356	1.9	0	0.0	0	0.0	0	0.0	9,369	49.4
			Subtotal	0	0.0	0	0.0	593	3.1	356	1.9	0	0.0	16,604	87.5	237	1.3	1,186	6.3	0	0.0	0	0.0	0	0.0	18,976	100.0
	(7/6 - 8/16)	0	M																								
			F																								
			Subtotal																							39,775	
	Season	160	M																								
			F																								
			Total																							55,751	
1995	6/28 (6/20- 29)	67	M	0	0.0	0	0.0	84	1.5	168	3.0	0	0.0	2,837	50.7	84	1.5	0	0.0	84	1.5	0	0.0	0	0.0	3,256	58.2
			F	0	0.0	0	0.0	0	0.0	252	4.5	0	0.0	1,919	34.3	0	0.0	0	0.0	168	3.0	0	0.0	0	0.0	2,339	41.8
			Subtotal	0	0.0	0	0.0	84	1.5	420	7.5	0	0.0	4,756	85.0	84	1.5	0	0.0	252	4.5	0	0.0	0	0.0	5,595	100.0
	7/1 - 2 (6/30- 7/8)	99	M	0	0.0	0	0.0	0	0.0	707	7.1	0	0.0	4,447	44.4	101	1.0	505	5.1	303	3.0	0	0.0	0	0.0	6,064	60.6
			F	0	0.0	0	0.0	0	0.0	202	2.0	0	0.0	3,234	32.3	101	1.0	0	0.0	404	4.0	0	0.0	0	0.0	3,941	39.4
			Subtotal	0	0.0	0	0.0	0	0.0	910	9.1	0	0.0	7,681	76.8	202	2.0	505	5.1	707	7.1	0	0.0	0	0.0	10,006	100.0
	7/11 - 12 (7/7- 13)	82	M	0	0.0	0	0.0	0	0.0	578	4.9	0	0.0	4,600	39.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,178	43.9
			F	0	0.0	0	0.0	0	0.0	1,722	14.6	0	0.0	4,317	36.6	578	4.9	0	0.0	0	0.0	0	0.0	0	0.0	6,616	56.1
			Subtotal	0	0.0	0	0.0	0	0.0	2,300	19.5	0	0.0	8,916	75.6	578	4.9	0	0.0	0	0.0	0	0.0	0	0.0	11,794	100.0
	7/15 - 16 (7/14- 17)	62	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,510	35.5	68	1.6	137	3.2	69	1.6	0	0.0	0	0.0	1,784	41.9
			F	0	0.0	0	0.0	0	0.0	481	11.3	0	0.0	1,851	43.5	0	0.0	0	0.0	137	3.2	0	0.0	0	0.0	2,470	58.1
			Subtotal	0	0.0	0	0.0	0	0.0	481	11.3	0	0.0	3,361	79.0	68	1.6	137	3.2	206	4.8	0	0.0	0	0.0	4,253	100.0

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Table 39. Age and sex of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	1.1 Esc.	1.1 %	0.3 Esc.	0.3 %	1.2 Esc.	1.2 %	0.4 Esc.	0.4 %	1.3 Esc.	1.3 %	2.2 Esc.	2.2 %	1.4 Esc.	1.4 %	2.3 Esc.	2.3 %	2.4 Esc.	2.4 %	3.3 Esc.	3.3 %	Total Esc.	Total %
1995 (cont.)	7/18 - 19 (7/18 - 8/28)	144	M	0	0.0	0	0.0	0	0.0	309	4.2	0	0.0	2,451	33.3	103	1.4	155	2.1	52	0.7	0	0.0	0	0.0	3,070	41.7
			F	0	0.0	0	0.0	0	0.0	920	12.5	0	0.0	2,811	38.2	51	0.7	256	3.5	256	3.5	0	0.0	0	0.0	4,294	58.3
			Subtotal	0	0.0	0	0.0	0	0.0	1,229	16.7	0	0.0	5,262	71.5	154	2.1	411	5.6	308	4.2	0	0.0	0	0.0	7,361	100.0
	Season	454	M	0	0.0	0	0.0	84	0.2	1,762	4.5	0	0.0	15,844	40.6	358	0.9	797	2.0	508	1.3	0	0.0	0	0.0	19,351	49.6
			F	0	0.0	0	0.0	0	0.0	3,577	9.2	0	0.0	14,132	36.2	730	1.9	256	0.7	965	2.5	0	0.0	0	0.0	19,661	50.4
			Total	0	0.0	0	0.0	84	0.2	5,340	13.7	0	0.0	29,976	76.8	1,086	2.8	1,053	2.7	1,473	3.8	0	0.0	0	0.0	39,009	100.0
1996[c]	6/24 - 25 (6/18 - 29)	106	M	0	0.0	0	0.0	192	1.9	92	0.9	0	0.0	5,926	58.5	0	0.0	92	0.9	385	3.8	0	0.0	0	0.0	6,688	66.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,444	34.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,444	34.0
			Subtotal	0	0.0	0	0.0	192	1.9	92	0.9	0	0.0	9,370	92.5	0	0.0	92	0.9	385	3.8	0	0.0	0	0.0	10,130	100.0
	7/3, 5 (6/30 - 7/8)	140	M	0	0.0	0	0.0	375	1.4	560	2.1	0	0.0	9,431	35.7	0	0.0	375	1.4	375	1.4	0	0.0	0	0.0	11,116	42.1
			F	0	0.0	0	0.0	766	2.9	182	0.7	0	0.0	13,578	51.4	0	0.0	0	0.0	766	2.9	0	0.0	0	0.0	15,293	57.9
			Subtotal	0	0.0	0	0.0	1,141	4.3	742	2.8	0	0.0	23,009	87.1	0	0.0	375	1.4	1,141	4.3	0	0.0	0	0.0	26,417	100.0
	(7/9 - 8/23)	0	M																								
			F																								
			Subtotal																							20,957	
	Season	246	M																								
			F																								
			Total																							57,504	
1997	6/22, 24 (6/13 - 27)	95	M	0	0.0	0	0.0	41	1.1	41	1.1	41	1.1	1,690	43.1	0	0.0	0	0.0	412	10.5	41	1.1	0	0.0	2,267	57.9
			F	0	0.0	0	0.0	0	0.0	41	1.0	0	0.0	1,319	33.7	0	0.0	41	1.1	206	5.3	41	1.0	0	0.0	1,649	42.1
			Subtotal	0	0.0	0	0.0	41	1.1	82	2.1	41	1.1	3,009	76.8	0	0.0	41	1.1	618	15.8	82	2.1	0	0.0	3,916	100.0
	7/1/2 (6/28 - 7/5)	163	M	0	0.0	0	0.0	70	0.6	349	3.1	0	0.0	4,253	37.4	140	1.2	209	1.8	978	8.6	70	0.6	0	0.0	6,068	53.4
			F	70	0.6	0	0.0	139	1.2	1,115	9.8	0	0.0	2,998	26.4	209	1.9	279	2.5	488	4.3	0	0.0	0	0.0	5,299	46.6
			Subtotal	70	0.6	0	0.0	209	1.8	1,464	12.9	0	0.0	7,251	63.8	349	3.1	488	4.3	1,464	12.9	70	0.6	0	0.0	11,365	100.0
	7/9, 10 (7/6 - 13)	179	M	0	0.0	0	0.0	62	0.6	1,173	10.6	62	0.6	2,964	26.8	124	1.1	123	1.1	432	3.9	0	0.0	0	0.0	4,940	44.7
			F	0	0.0	0	0.0	61	0.5	1,853	16.8	61	0.5	3,767	34.1	185	1.7	0	0.0	185	1.7	0	0.0	0	0.0	6,113	55.3
			Subtotal	0	0.0	0	0.0	123	1.1	3,026	27.4	123	1.1	6,731	60.9	309	2.8	123	1.1	617	5.6	0	0.0	0	0.0	11,053	100.0
	7/16, 17 (7/14 - 20)	164	M	0	0.0	0	0.0	69	1.2	553	9.7	35	0.6	1,450	25.6	0	0.0	35	0.6	69	1.2	0	0.0	0	0.0	2,210	39.0
			F	0	0.0	0	0.0	35	0.6	1,001	17.7	34	0.6	2,107	37.2	173	3.0	34	0.6	35	0.6	0	0.0	0	0.0	3,453	61.0
			Subtotal	0	0.0	0	0.0	104	1.8	1,554	27.4	69	1.2	3,557	62.8	173	3.0	69	1.2	104	1.8	0	0.0	0	0.0	5,663	100.0
	7/23, 24 (7/21 - 9/16)	132	M	0	0.0	0	0.0	27	0.8	241	6.8	0	0.0	562	15.9	0	0.0	0	0.0	27	0.7	0	0.0	0	0.0	856	24.2
			F	0	0.0	0	0.0	0	0.0	1,070	30.3	0	0.0	1,338	37.9	27	0.8	161	4.5	80	2.3	0	0.0	0	0.0	2,677	75.8
			Subtotal	0	0.0	0	0.0	27	0.8	1,311	37.1	0	0.0	1,900	53.8	27	0.8	161	4.5	107	3.0	0	0.0	0	0.0	3,533	100.0
	Season	733	M	0	0.0	0	0.0	268	0.7	2,357	6.6	138	0.4	10,920	30.7	263	0.7	367	1.0	1,917	5.4	111	0.3	0	0.0	16,339	46.0
			F	70	0.2	0	0.0	236	0.7	5,081	14.3	96	0.3	11,528	32.5	594	1.7	515	1.5	994	2.8	41	0.1	0	0.0	19,191	54.0
			Total	70	0.2	0	0.0	504	1.4	7,438	20.9	234	0.7	22,448	63.2	857	2.4	882	2.5	2,911	8.2	152	0.4	0	0.0	35,530	100.0
	Grand Total[d]	1,616	M	180	0.1	239	0.2	5,607	4.2	8,520	6.4	258	0.2	41,494	31.3	1,148	0.9	1,491	1.1	3,752	2.8	141	0.1	0	0.0	62,829	47.4
			F	339	0.3	120	0.1	2,746	2.1	14,579	11.0	96	0.1	44,089	33.3	1,621	1.2	1,657	1.3	4,303	3.2	41	0.0	0	0.0	69,627	52.5
			Total	519	0.4	359	0.3	8,353	6.3	23,099	17.4	354	0.3	85,583	64.6	2,770	2.1	3,148	2.4	8,055	6.1	182	0.1	0	0.0	132,462	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
c Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".
d The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 40. Mean length (mm) of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995	6/28 (6/20- 29)	M	Mean Length			570	510		589	550		540		
			Std. Error			-	-		4	-		-		
			Range			570- 570	510- 510		540- 620	550- 550		540- 540		
			Sample Size	0	0	1	2	0	34	1	0	1	0	0
		F	Mean Length				490		542			538		
			Std. Error				3		4			8		
			Range				485- 495		515- 580			530- 545		
			Sample Size	0	0	0	3	0	23	0	0	2	0	0
	7/1- 2 (6/30- 7/6)	M	Mean Length				514		537	535	592	563		
			Std. Error				4		4	-	3	9		
			Range				500- 530		500- 580	535- 535	585- 600	550- 580		
			Sample Size	0	0	0	7	0	32	1	5	3	0	0
		F	Mean Length				490		571	520		543		
			Std. Error				10		3	-		6		
			Range				480- 500		520- 600	520- 520		530- 560		
			Sample Size	0	0	0	2	0	44	1	0	4	0	0
	7/11- 12 (7/7- 13)	M	Mean Length				531		563					
			Std. Error				28		5					
			Range				490- 615		475- 605					
			Sample Size	0	0	0	4	0	32	0	0	0	0	0
		F	Mean Length				491		528	505				
			Std. Error				11		4	13				
			Range				455- 595		480- 565	475- 535				
			Sample Size	0	0	0	12	0	30	4	0	0	0	0
	7/15- 16 (7/14- 17)	M	Mean Length						571	600	585	580		
			Std. Error						5	-	5	-		
			Range						520- 610	600- 600	580- 590	580- 580		
			Sample Size	0	0	0	0	0	21	1	2	1	0	0
		F	Mean Length				479		533			525		
			Std. Error				6		4			5		
			Range				460- 510		500- 570			520- 530		
			Sample Size	0	0	0	7	0	26	0	0	2	0	0

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Table 40. Mean length (mm) of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995 (cont.)	7/18- 19 (7/18 - 8/28)	M	Mean Length				507		563	525	563	565		
			Std. Error				7		4	5	17	-		
			Range				490- 535		455- 615	520- 530	530- 580	565- 565		
			Sample Size	0	0	0	6	0	48	2	3	1	0	0
		F	Mean Length				477		528	545	542	526		
			Std. Error				5		3	-	10	10		
			Range				445- 520		470- 610	545- 545	510- 570	500- 555		
			Sample Size	0	0	0	18	0	55	1	5	5	0	0
	Season	M	Mean Length			570	518		561	548	585	562		
			Range			570- 570	490- 615		497- 700	499- 602	540- 625	540- 580		
			Sample Size	0	0	1	19	0	167	5	10	6	0	0
		F	Mean Length				486		540	510	542	535		
			Range				445- 595		499- 613	467- 534	535- 599	533- 575		
			Sample Size	0	0	0	42	0	178	6	5	13	0	0
1996[b]	6/24 - 25 (6/18 - 29)	M	Mean Length			590	440		581		610	573		
			Std. Error			10	-		2		-	9		
			Range			580- 600	440- 440		535- 635		610- 610	550- 590		
			Sample Size	0	0	2	1	0	62	0	1	4	0	0
		F	Mean Length						547					
			Std. Error						3					
			Range						495- 585					
			Sample Size	0	0	0	0	0	36	0	0	0	0	0
	7/3, 5 (6/30 - 8/23)	M	Mean Length			555	532		577		595	598		
			Std. Error			10	2		3		20	13		
			Range			545- 565	530- 535		630- 615		575- 615	585- 610		
			Sample Size	0	0	2	3	0	50	0	2	2	0	0
		F	Mean Length			535	485		545			534		
			Std. Error			2	-		2			19		
			Range			530- 540	485- 485		510- 585			515- 555		
			Sample Size	0	0	4	1	0	72	0	0	4	0	0

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Table 40. Mean length (mm) of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997	6/22, 24 (6/13 - 27)	M	Mean Length			520	520	610	585			586	585	
			Std. Error			-	-	-	4			4	-	
			Range			520- 520	520- 520	610- 610	530- 625			570- 605	585- 585	
			Sample Size	0	0	1	1	1	41	0	0	10	1	0
		F	Mean Length				500		550		565	549	570	
			Std. Error				-		4		-	11	-	
			Range				500- 500		470- 605		565- 565	510- 580	570- 570	
			Sample Size	0	0	0	1	0	32	0	1	5	1	0
	7/1/2 (6/28 - 7/5)	M	Mean Length			600	522		579	518	593	593	615	
			Std. Error			-	30		4	3	14	5	-	
			Range			600- 600	425- 605		470- 625	515- 520	575- 620	560- 615	615- 615	
			Sample Size	0	0	1	5	0	61	2	3	14	1	0
		F	Mean Length	470		525	492		546	495	578	551		
			Std. Error	-		5	9		3	24	17	5		
			Range	470- 470		520- 530	450- 580		500- 585	460- 540	555- 625	535- 575		
			Sample Size	1	0	2	16	0	43	3	4	7	0	0
	7/9, 10 (7/6 - 13)	M	Mean Length			570	507	570	579	563	605	576		
			Std. Error			-	4	-	3	38	5	7		
			Range			570- 570	465- 540	570- 570	530- 615	525- 600	600- 610	540- 595		
			Sample Size	0	0	1	19	1	48	2	2	7	0	0
		F	Mean Length			545	482	595	541	502		530		
			Std. Error			-	4	-	3	23		9		
			Range			545- 545	450- 535	595- 595	475- 570	465- 545		515- 545		
			Sample Size	0	0	1	30	1	61	3	0	3	0	0
	7/16, 17 (7/14 - 20)	M	Mean Length			568	501	645	577		570	588		
			Std. Error			33	5	-	4		-	8		
			Range			535- 600	475- 545	645- 645	515- 630		570- 570	580- 595		
			Sample Size	0	0	2	16	1	42	0	1	2	0	0
		F	Mean Length			535	482	575	535	486	520	540		
			Std. Error			-	7	-	4	8	-	-		
			Range			535- 535	415- 580	575- 575	455- 635	455- 500	520- 520	540- 540		
			Sample Size	0	0	1	29	1	61	5	1	1	0	0

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Table 40. Mean length (mm) of sockeye salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997 (cont.)	7/23, 24 (7/21 - 9/16)	M	Mean Length			625	488		560			560		
			Std. Error			-	5		7			-		
			Range			625- 625	465- 510		475- 605			560- 560		
			Sample Size	0	0	1	9	0	21	0	0	1	0	0
		F	Mean Length				465		529	465	544	523		
			Std. Error				4		3	-	14	17		
			Range				435- 555		475- 590	465- 465	480- 580	490- 540		
			Sample Size	0	0	0	40	0	50	1	6	3	0	0
	Season	M	Mean Length			575	506	601	579	539	595	587	604	
			Range			520- 625	425- 605	570- 645	470- 630	515- 600	570- 620	540- 615	585- 615	
			Sample Size	0	0	6	50	3	213	4	6	34	2	0
		F	Mean Length	470		532	481	588	541	493	562	544	570	
			Range	470- 470		520- 545	415- 580	575- 595	455- 635	455- 545	480- 625	490- 580	570- 570	
			Sample Size	1	0	4	116	2	247	12	12	19	1	0
	Grand Total [c]	M	Mean Length	0		573	512	601	570	544	590	574	604	0
			Range			520- 625	425- 615	570- 645	470- 700	499- 602	540- 625	540- 615	585- 615	
			Sample Size	0	0	7	69	3	380	9	16	40	2	0
		F	Mean Length	470		532	483	588	541	501	552	539	570	0
			Range	470- 470		520- 545	415- 595	575- 595	455- 635	455- 545	480- 625	490- 580	570- 570	
			Sample Size	1	0	4	158	2	425	18	17	32	1	0

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] Sampling dates do not meet criteria for estimating commercial harvest for some or all of the strata; "Season" is not included in "Grand Total".
[c] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 41. Age and sex of sockeye salmon from the District 1 commercial fishery [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1984	Season	296	M	0	0.0	0	0.0	1,236	2.7	1,374	3.0	0	0.0	12,499	27.3	1,557	3.4	137	0.3	4,899	10.7	0	0.0	0	0.0	21,702	47.4
			F	137	0.3	137	0.3	1,877	4.1	2,930	6.4	137	0.3	13,552	29.6	1,557	3.4	137	0.3	3,617	7.9	0	0.0	0	0.0	24,083	52.6
			Total	137	0.3	137	0.3	3,113	6.8	4,304	9.4	137	0.3	26,052	56.9	3,113	6.8	275	0.6	8,516	18.6	0	0.0	0	0.0	45,785	100.0
1985	6/20, 24, 27	544	M	0	0.0	0	0.0	740	1.3	1,879	3.3	114	0.2	15,942	28.0	1,993	3.5	399	0.7	2,277	4.0	0	0.0	0	0.0	23,344	41.0
	(6/20, 24, 27)		F	0	0.0	0	0.0	1,139	2.0	2,391	4.2	342	0.6	22,490	39.5	3,644	6.4	0	0.0	3,587	6.3	0	0.0	0	0.0	33,593	59.0
			Subtotal	0	0.0	0	0.0	1,879	3.3	4,270	7.5	455	0.8	38,432	67.5	5,637	9.9	399	0.7	5,865	10.3	0	0.0	0	0.0	56,937	100.0
	7/1, 4	349	M	0	0.0	0	0.0	519	1.1	425	0.9	283	0.6	14,725	31.2	3,115	6.6	425	0.9	3,115	6.6	0	0.0	0	0.0	22,607	47.9
	(7/1, 4)		F	0	0.0	0	0.0	425	0.9	1,227	2.6	425	0.9	15,103	32.0	2,643	5.6	283	0.6	4,484	9.5	0	0.0	0	0.0	24,589	52.1
			Subtotal	0	0.0	0	0.0	944	2.0	1,652	3.5	708	1.5	29,828	63.2	5,758	12.2	708	1.5	7,599	16.1	0	0.0	0	0.0	47,196	100.0
	Season	893	M	0	0.0	0	0.0	1,259	1.2	2,304	2.2	397	0.4	30,668	29.5	5,108	4.9	823	0.8	5,392	5.2	0	0.0	0	0.0	45,951	44.1
			F	0	0.0	0	0.0	1,564	1.5	3,618	3.5	766	0.7	37,593	36.1	6,287	6.0	283	0.3	8,071	7.8	0	0.0	0	0.0	58,182	55.9
			Total	0	0.0	0	0.0	2,823	2.7	5,922	5.7	1,163	1.1	68,260	65.6	11,395	10.9	1,106	1.1	13,463	12.9	0	0.0	0	0.0	104,133	100.0
1986	Season	535	M	0	0.0	0	0.0	2,966	3.2	2,596	2.8	0	0.0	36,061	38.9	834	0.9	371	0.4	3,337	3.6	0	0.0	0	0.0	46,166	49.8
			F	0	0.0	0	0.0	3,615	3.9	3,152	3.4	185	0.2	33,929	36.6	1,761	1.9	185	0.2	3,801	4.1	0	0.0	0	0.0	46,629	50.3
			Total	0	0.0	0	0.0	2,184	2.4	4,258	4.6	1,213	1.3	59,677	64.4	10,727	11.6	1,188	1.3	13,455	14.5	0	0.0	0	0.0	92,702	100.0
1987	6/18	68	M	0	0.0	0	0.0	0	0.0	137	1.5	0	0.0	2,276	25.0	0	0.0	137	1.5	674	7.4	0	0.0	0	0.0	3,222	35.4
	(6/18)		F	0	0.0	0	0.0	137	1.5	537	5.9	0	0.0	4,533	49.8	0	0.0	0	0.0	674	7.4	0	0.0	0	0.0	5,880	64.6
			Subtotal	0	0.0	0	0.0	137	1.5	674	7.4	0	0.0	6,808	74.8	0	0.0	137	1.5	1,347	14.8	0	0.0	0	0.0	9,102	100.0
	6/24	331	M	0	0.0	0	0.0	365	1.5	365	1.5	0	0.0	8,622	35.4	146	0.6	365	1.5	804	3.3	0	0.0	0	0.0	10,667	43.8
	(6/24)		F	0	0.0	0	0.0	731	3.0	1,242	5.1	0	0.0	10,034	41.2	438	1.8	73	0.3	1,169	4.8	0	0.0	0	0.0	13,688	56.2
			Subtotal	0	0.0	0	0.0	1,096	4.5	1,607	6.6	0	0.0	18,656	76.6	585	2.4	438	1.8	1,973	8.1	0	0.0	0	0.0	24,355	100.0
	6/30	168	M	0	0.0	0	0.0	0	0.0	3,601	3.6	600	0.6	39,810	39.8	0	0.0	600	0.6	4,201	4.2	0	0.0	0	0.0	48,812	48.8
	(6/30; 7/3, 7)		F	0	0.0	0	0.0	600	0.6	3,001	3.0	0	0.0	35,709	35.7	1,200	1.2	600	0.6	10,102	10.1	0	0.0	0	0.0	51,212	51.2
			Subtotal	0	0.0	0	0.0	600	0.6	6,602	6.6	600	0.6	75,518	75.5	1,200	1.2	1,200	1.2	14,303	14.3	0	0.0	0	0.0	100,024	100.0
	Season	567	M	0	0.0	0	0.0	365	0.3	4,103	3.1	600	0.4	50,707	38.0	146	0.1	1,102	0.8	5,678	4.3	0	0.0	0	0.0	62,701	47.0
			F	0	0.0	0	0.0	1,467	1.1	4,780	3.6	0	0.0	50,276	37.7	1,639	1.2	673	0.5	11,945	8.9	0	0.0	0	0.0	70,780	53.0
			Total	0	0.0	0	0.0	1,833	1.4	8,883	6.7	600	0.4	100,982	75.7	1,785	1.3	1,775	1.3	17,623	13.2	0	0.0	0	0.0	133,481	100.0
1988	Season	453	M	0	0.0	0	0.0	180	0.2	628	0.7	0	0.0	26,570	29.6	628	0.7	359	0.4	10,323	11.5	180	0.2	180	0.2	39,047	43.5
			F	0	0.0	0	0.0	0	0.0	628	0.7	0	0.0	38,957	43.4	628	0.7	1,616	1.8	8,527	9.5	180	0.2	180	0.2	50,716	56.5
			Total	0	0.0	0	0.0	180	0.2	1,257	1.4	0	0.0	65,527	73.0	1,257	1.4	1,975	2.2	18,850	21.0	359	0.4	359	0.4	89,763	100.0

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Table 41. Age and sex of sockeye salmon from the District 1 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1989	6/19, 23, 26,	175	M	0	0.0	0	0.0	0	0.0	453	1.1	0	0.0	12,025	29.2	1,647	4.0	453	1.1	3,294	8.0	453	1.1	0	0.0	18,325	44.5
	30; 7/3		F	0	0.0	0	0.0	0	0.0	947	2.3	0	0.0	12,272	29.8	2,594	6.3	1,400	3.4	5,395	13.1	0	0.0	247	0.6	22,855	55.5
	(Season)		Total	0	0.0	0	0.0	0	0.0	1,400	3.4	0	0.0	24,296	59.0	4,242	10.3	1,853	4.5	8,689	21.1	453	1.1	247	0.6	41,180	100.0
1990	6/25, 29; 7/9	250	M	0	0.0	328	0.4	0	0.0	983	1.2	0	0.0	30,154	36.8	2,294	2.8	328	0.4	5,900	7.2	0	0.0	0	0.0	39,987	48.8
	(6/20, 25, 29;		F	0	0.0	0	0.0	328	0.4	1,967	2.4	656	0.8	33,104	40.4	1,639	2.0	1,967	2.4	2,294	2.8	0	0.0	0	0.0	41,953	51.2
	7/5, 9, 14)		Total	0	0.0	328	0.4	328	0.4	2,950	3.6	656	0.8	63,258	77.2	3,933	4.8	2,294	2.8	8,194	10.0	0	0.0	0	0.0	81,940	100.0
1991	6/20	147	M	0	0.0	0	0.0	273	0.7	273	0.7	0	0.0	17,469	44.8	0	0.0	546	1.4	780	2.0	0	0.0	0	0.0	19,341	49.6
	(6/20, 24)		F	273	0.7	0	0.0	0	0.0	1,872	4.8	0	0.0	16,962	43.5	273	0.7	0	0.0	273	0.7	0	0.0	0	0.0	19,653	50.4
			Subtotal	273	0.7	0	0.0	273	0.7	2,145	5.5	0	0.0	34,432	88.3	273	0.7	546	1.4	1,053	2.7	0	0.0	0	0.0	38,994	100.0
	7/1	98	M (est.)	0	0.0	0	0.0	366	1.5	977	4.0	0	0.0	9,771	40.0	0	0.0	244	1.0	733	3.0	0	0.0	0	0.0	12,092	49.5
	(7/1)		F (est.)	0	0.0	0	0.0	122	0.5	2,443	10.0	244	1.0	9,283	38.0	244	1.0	0	0.0	0	0.0	0	0.0	0	0.0	12,336	50.5
			Subtotal	0	0.0	0	0.0	489	2.0	3,420	14.0	244	1.0	19,054	78.0	244	1.0	244	1.0	733	3.0	0	0.0	0	0.0	24,428	100.0
	7/6	148	M	0	0.0	0	0.0	484	2.0	993	4.1	170	0.7	8,162	33.7	170	0.7	654	2.7	1,308	5.4	0	0.0	0	0.0	11,940	49.3
	(7/6)		F	0	0.0	0	0.0	170	0.7	1,962	8.1	339	1.4	9,639	39.8	170	0.7	0	0.0	0	0.0	0	0.0	0	0.0	12,279	50.7
			Subtotal	0	0.0	0	0.0	654	2.7	2,955	12.2	509	2.1	17,801	73.5	339	1.4	654	2.7	1,308	5.4	0	0.0	0	0.0	24,219	100.0
	7/13	99	M	0	0.0	0	0.0	194	3.0	387	6.0	0	0.0	2,131	33.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,712	42.0
	(7/13)		F	0	0.0	0	0.0	65	1.0	517	8.0	65	1.0	2,971	46.0	0	0.0	65	1.0	65	1.0	0	0.0	0	0.0	3,746	58.0
			Subtotal	0	0.0	0	0.0	258	4.0	904	14.0	65	1.0	5,102	79.0	0	0.0	65	1.0	65	1.0	0	0.0	0	0.0	6,458	100.0
	7/18	21	M	0	0.0	0	0.0	0	0.0	566	5.0	0	0.0	5,661	50.0	0	0.0	566	5.0	0	0.0	0	0.0	0	0.0	6,793	60.0
	(7/18, 22, 25)		F	0	0.0	0	0.0	0	0.0	566	5.0	0	0.0	3,396	30.0	0	0.0	0	0.0	566	5.0	0	0.0	0	0.0	4,528	40.0
			Subtotal	0	0.0	0	0.0	0	0.0	1,132	10.0	0	0.0	9,057	80.0	0	0.0	566	5.0	566	5.0	0	0.0	0	0.0	11,321	100.0
	Season	513	M	0	0.0	0	0.0	1,317	1.2	3,197	3.0	170	0.2	43,194	41.0	170	0.2	2,010	1.9	2,821	2.7	0	0.0	0	0.0	52,878	50.2
			F	273	0.3	0	0.0	356	0.3	7,359	7.0	648	0.6	42,251	40.1	687	0.7	65	0.1	904	0.9	0	0.0	0	0.0	52,542	49.8
			Total	273	0.3	0	0.0	1,674	1.6	10,556	10.0	817	0.8	85,445	81.1	856	0.8	2,075	2.0	3,724	3.5	0	0.0	0	0.0	105,420	100.0
1992	6/18	175	M	0	0.0	0	0.0	94	1.1	145	1.7	196	2.3	3,352	39.4	51	0.6	340	4.0	289	3.4	0	0.0	0	0.0	4,467	52.5
	(6/18)		F	0	0.0	0	0.0	247	2.9	145	1.7	51	0.6	2,723	32.0	51	0.6	196	2.3	630	7.4	0	0.0	0	0.0	4,041	47.5
			Subtotal	0	0.0	0	0.0	340	4.0	289	3.4	247	2.9	6,075	71.4	102	1.2	536	6.3	919	10.8	0	0.0	0	0.0	8,508	100.0
	6/22	162	M	0	0.0	0	0.0	0	0.0	1,455	3.1	282	0.6	16,523	35.2	563	1.2	563	1.2	3,192	6.8	0	0.0	0	0.0	22,578	48.1
	(6/22, 25)		F	0	0.0	0	0.0	563	1.2	1,455	3.1	0	0.0	16,523	35.2	1,173	2.5	1,455	3.1	3,192	6.8	0	0.0	0	0.0	24,361	51.9
			Subtotal	0	0.0	0	0.0	563	1.2	2,910	6.2	282	0.6	33,045	70.4	1,737	3.7	2,018	4.3	6,384	13.6	0	0.0	0	0.0	46,939	100.0

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Table 41. Age and sex of sockeye salmon from the District 1 commercial fishery (page 3 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1992	6/29	167	M	0	0.0	0	0.0	414	1.2	1,656	4.8	207	0.6	10,525	30.5	207	0.6	2,278	6.6	1,656	4.8	0	0.0	0	0.0	16,944	49.1
(cont.)	(6/29, 7/6)		F	0	0.0	0	0.0	828	2.4	621	1.8	0	0.0	12,596	36.5	828	2.4	828	2.4	1,863	5.4	0	0.0	0	0.0	17,565	50.9
			Subtotal	0	0.0	0	0.0	1,242	3.6	2,278	6.6	207	0.6	23,121	67.0	1,035	3.0	3,106	9.0	3,520	10.2	0	0.0	0	0.0	34,509	100.0
	Season	504	M	0	0.0	0	0.0	508	0.6	3,256	3.6	684	0.8	30,400	33.8	821	0.9	3,181	3.5	5,138	5.7	0	0.0	0	0.0	43,988	48.9
			F	0	0.0	0	0.0	1,638	1.8	2,221	2.5	51	0.1	31,841	35.4	2,053	2.3	2,479	2.8	5,685	6.3	0	0.0	0	0.0	45,968	51.1
			Total	0	0.0	0	0.0	2,146	2.4	5,477	6.1	735	0.8	62,241	69.2	2,874	3.2	5,660	6.3	10,822	12.0	0	0.0	0	0.0	89,956	100.0
1993	6/25	186	M	0	0.0	0	0.0	432	1.6	3,051	11.3	0	0.0	7,399	27.4	1,161	4.3	0	0.0	1,458	5.4	0	0.0	0	0.0	13,502	50.0
	(Season)		F	0	0.0	0	0.0	0	0.0	2,916	10.8	297	1.1	7,534	27.9	1,296	4.8	594	2.2	864	3.2	0	0.0	0	0.0	13,502	50.0
			Total	0	0.0	0	0.0	432	1.6	5,968	22.1	297	1.1	14,933	55.3	2,457	9.1	594	2.2	2,322	8.6	0	0.0	0	0.0	27,003	100.0
1994	6/24	173	M	0	0.0	0	0.0	0	0.0	592	1.2	0	0.0	17,622	35.7	296	0.6	592	1.2	5,134	10.4	592	1.2	0	0.0	24,829	50.3
	(Season)		F	0	0.0	0	0.0	296	0.6	296	0.6	0	0.0	17,918	36.3	0	0.0	296	0.6	5,726	11.6	0	0.0	0	0.0	24,533	49.7
			Total	0	0.0	0	0.0	296	0.6	889	1.8	0	0.0	35,541	72.0	296	0.6	889	1.8	10,860	22.0	592	1.2	0	0.0	49,362	100.0
1995	6/22	168	M	0	0.0	27	0.6	0	0.0	265	6.0	0	0.0	1,547	35.0	53	1.2	133	3.0	473	10.7	0	0.0	0	0.0	2,497	56.5
	(6/22)		F	0	0.0	0	0.0	0	0.0	265	6.0	0	0.0	1,238	28.0	27	0.6	80	1.8	314	7.1	0	0.0	0	0.0	1,923	43.5
			Subtotal	0	0.0	27	0.6	0	0.0	530	12.0	0	0.0	2,785	63.0	80	1.8	212	4.8	787	17.8	0	0.0	0	0.0	4,420	100.0
	6/26	169	M	0	0.0	0	0.0	226	0.6	1,543	4.1	226	0.6	12,684	33.7	226	0.6	677	1.8	1,355	3.6	0	0.0	0	0.0	16,937	45.0
	(6/26, 29)		F	0	0.0	0	0.0	226	0.6	2,672	7.1	0	0.0	15,996	42.5	677	1.8	226	0.6	903	2.4	0	0.0	0	0.0	20,700	55.0
			Subtotal	0	0.0	0	0.0	452	1.2	4,215	11.2	226	0.6	28,679	76.2	903	2.4	903	2.4	2,258	6.0	0	0.0	0	0.0	37,637	100.0
	7/3	82	M	0	0.0	0	0.0	576	1.2	1,151	2.4	0	0.0	14,103	29.4	576	1.2	1,151	2.4	576	1.2	0	0.0	0	0.0	18,132	37.8
	(7/3, 6, 10, 14, 18, 21;		F	0	0.0	0	0.0	576	1.2	1,151	2.4	0	0.0	28,110	58.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	29,837	62.2
	8/4, 8, 12, 16, 19,		Subtotal	0	0.0	0	0.0	1,151	2.4	2,303	4.8	0	0.0	42,213	88.0	576	1.2	1,151	2.4	576	1.2	0	0.0	0	0.0	47,969	100.0
	22, 26, 29; 9/1)																										
	Season	419	M	0	0.0	27	0.0	801	0.9	2,960	3.3	226	0.3	28,334	31.5	854	0.9	1,961	2.2	2,404	2.7	0	0.0	0	0.0	37,566	41.7
			F	0	0.0	0	0.0	801	0.9	4,089	4.5	0	0.0	45,343	50.4	704	0.8	305	0.3	1,218	1.4	0	0.0	0	0.0	52,460	58.3
			Total	0	0.0	27	0.0	1,603	1.8	7,048	7.8	226	0.3	73,677	81.8	1,558	1.7	2,267	2.5	3,621	4.0	0	0.0	0	0.0	90,026	100.0
1996	6/17, 20	206	M	63	0.5	0	0.0	622	4.9	430	3.4	0	0.0	8,377	66.0	185	1.5	62	0.5	367	2.9	0	0.0	0	0.0	10,107	79.6
	(6/17, 20, 24)		F	0	0.0	0	0.0	63	0.5	190	1.5	0	0.0	2,031	16.0	0	0.0	0	0.0	305	2.4	0	0.0	0	0.0	2,589	20.4
			Subtotal	63	0.5	0	0.0	685	5.4	621	4.9	0	0.0	10,408	82.0	185	1.5	62	0.5	671	5.3	0	0.0	0	0.0	12,693	100.0
	7/2	163	M	0	0.0	0	0.0	45	0.6	45	0.6	0	0.0	2,694	36.2	0	0.0	45	0.6	186	2.5	0	0.0	0	0.0	3,016	40.5
	(7/2, 5)		F	0	0.0	0	0.0	409	5.5	135	1.8	0	0.0	3,610	48.5	135	1.8	45	0.6	91	1.2	0	0.0	0	0.0	4,426	59.5
			Subtotal	0	0.0	0	0.0	455	6.1	180	2.4	0	0.0	6,304	84.7	135	1.8	91	1.2	277	3.7	0	0.0	0	0.0	7,443	100.0

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Table 41. Age and sex of sockeye salmon from the District 1 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1996	7/8	151	M	0	0.0	0	0.0	172	1.3	265	2.0	0	0.0	5,095	38.4	90	0.7	172	1.3	172	1.3	0	0.0	0	0.0	5,968	45.0
(cont.)	(7/8 - 8/26)		F	0	0.0	90	0.7	796	6.0	90	0.7	0	0.0	5,626	42.4	90	0.7	172	1.3	438	3.3	0	0.0	0	0.0	7,303	55.0
			Subtotal	0	0.0	90	0.7	969	7.3	356	2.7	0	0.0	10,721	80.8	180	1.4	345	2.6	610	4.6	0	0.0	0	0.0	13,268	100.0
	Season	520	M	63	0.2	0	0.0	840	2.5	740	2.2	0	0.0	16,167	48.4	276	0.8	280	0.8	725	2.2	0	0.0	0	0.0	19,091	57.2
			F	0	0.0	90	0.3	1,269	3.8	416	1.2	0	0.0	11,266	33.7	226	0.7	218	0.7	833	2.5	0	0.0	0	0.0	14,318	42.9
			Total	63	0.2	90	0.3	2,109	6.3	1,156	3.5	0	0.0	27,433	82.1	501	1.5	498	1.5	1,559	4.7	0	0.0	0	0.0	33,404	100.0
1997	6/23	89	M	0	0.0	0	0.0	0	0.0	2,965	13.5	0	0.0	5,435	24.7	988	4.5	494	2.2	988	4.5	0	0.0	0	0.0	10,870	49.4
	(Season)		F	0	0.0	0	0.0	0	0.0	2,717	12.3	0	0.0	5,683	25.9	1,483	6.7	0	0.0	1,236	5.6	0	0.0	0	0.0	11,118	50.6
			Subtotal	0	0.0	0	0.0	0	0.0	5,682	25.8	0	0.0	11,118	50.6	2,471	11.2	494	2.2	2,224	10.1	0	0.0	0	0.0	21,988	100.0
	Grand Total [c]	5,573	M	63	0.0	354	0.0	9,905	1.0	29,202	2.9	2,077	0.2	347,233	34.5	16,781	1.7	12,092	1.2	57,491	5.7	1,225	0.1	180	0.0	476,603	47.4
			F	410	0.0	228	0.0	13,212	1.3	38,037	3.8	2,741	0.3	381,519	37.9	22,553	2.2	10,219	1.0	60,115	6.0	180	0.0	427	0.0	529,639	52.6
			Total	474	0.0	582	0.1	18,719	1.9	65,749	6.5	5,845	0.6	718,440	71.4	47,466	4.7	22,943	2.3	123,923	12.3	1,404	0.1	606	0.1	1,006,143	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 42. Mean length (mm) of sockeye salmon from the District 1 commercial fishery. [a]

Year	Sample Date (Stratum Date)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995	6/22 (6/22)	M	Mean Length		529		535		584	531	587	580		
			Std. Error		-		4		3	1	6	4		
			Range		529- 529		518- 560		533- 638	530- 532	570- 604	543- 604		
			Sample Size	0	1	0	10	0	59	2	5	18	0	0
		F	Mean Length				496		542	529	569	549		
			Std. Error				4		3	-	6	9		
			Range				477- 516		485- 603	529- 529	563- 580	518- 634		
			Sample Size	0	0	0	10	0	47	1	3	12	0	0
	6/26 (6/26, 29)	M	Mean Length			602	532	594	585	536	610	610		
			Std. Error			-	4	-	3	-	10	9		
			Range			602- 602	509- 542	594- 594	513- 627	536- 536	590- 625	585- 643		
			Sample Size	0	0	1	7	1	57	1	3	6	0	0
		F	Mean Length			563	530		554	514	584	561		
			Std. Error			-	7		3	10	-	7		
			Range			563- 563	501- 572		505- 632	495- 530	584- 584	545- 577		
			Sample Size	0	0	1	12	0	72	3	1	4	0	0
	7/3 (7/3, 6, 10, 14, 18, 21; 8/4, 8, 12, 16, 19, 22, 26, 29; 9/1)	M	Mean Length			572	526		583	532	602	615		
			Std. Error			-	4		5	-	4	-		
			Range			572- 572	522- 530		520- 643	532- 532	598- 605	615- 615		
			Sample Size	0	0	1	2	0	24	1	2	1	0	0
		F	Mean Length			535	502		551					
			Std. Error			-	7		3					
			Range			535- 535	495- 508		502- 608					
			Sample Size	0	0	1	2	0	48	0	0	0	0	0
	Season	M	Mean Length		529	580	530	594	584	533	603	605		
			Range		529- 529	572- 602	509- 560	594- 594	513- 643	530- 536	570- 625	543- 643		
			Sample Size	0	1	2	19	1	140	4	10	25	0	0
		F	Mean Length			543	520		552	515	580	558		
			Range			535- 563	477- 572		485- 632	495- 530	563- 584	518- 634		
			Sample Size	0	0	2	24	0	167	4	4	16	0	0

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Table 42. Mean length (mm) of sockeye salmon from the District 1 commercial fishery (page 2 of 3).

Year	Sample Date (Stratum Date)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1996	6/17, 20 (6/17, 20, 24)	M	Mean Length	595		562	562		581	579	612	601		
			Std. Error	-		8	25		2	28	-	10		
			Range	595- 595		516- 601	437- 619		509- 650	527- 625	612- 612	568- 626		
			Sample Size	1	0	10	7	0	136	3	1	6	0	0
		F	Mean Length			543	540		546			569		
			Std. Error			-	14		4			3		
			Range			543- 543	520- 568		494- 594			565- 580		
			Sample Size	0	0	1	3	0	33	0	0	5	0	0
	7/2 (7/2, 5)	M	Mean Length			541	567		588		617	619		
			Std. Error			-	-		3		-	2		
			Range			541- 541	567- 567		537- 638		617- 617	615- 624		
			Sample Size	0	0	1	1	0	59	0	1	4	0	0
		F	Mean Length			547	531		553	509	581	565		
			Std. Error			6	12		2	12	-	5		
			Range			518- 565	508- 547		509- 584	493- 532	581- 581	560- 569		
			Sample Size	0	0	9	3	0	79	3	1	2	0	0
	7/8 (7/8 - 8/26)	M	Mean Length			584	595		577	551	573	605		
			Std. Error			20	6		3	-	47	15		
			Range			564- 604	583- 605		523- 644	551- 551	526- 619	590- 620		
			Sample Size	0	0	2	3	0	58	1	2	2	0	0
		F	Mean Length		531	529	581		546	520	563	557		
			Std. Error		-	5	-		3	-	7	6		
			Range		531- 531	510- 551	581- 581		499- 596	520- 520	556- 569	547- 578		
			Sample Size	0	1	9	1	0	64	1	2	5	0	0
	Season	M	Mean Length	595		566	574		581	570	588	606		
			Range	595- 595		516- 604	437- 619		509- 644	527- 625	526- 619	568- 626		
			Sample Size	1	0	13	11	0	253	4	4	12	0	0
		F	Mean Length		531	535	546		548	514	566	562		
			Range		531- 531	510- 565	508- 581		494- 596	493- 532	556- 581	547- 680		
			Sample Size	0	1	19	7	0	176	4	3	12	0	0

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Table 42. Mean length (mm) of sockeye salmon from the District 1 commercial fishery (page 3 of 3).

Year	Sample Date (Stratum Date)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997	6/23 (Season)	M	Mean Length				545		592	552	617	597		
			Std. Error				13		6	9	16	16		
			Range				430- 587		538- 644	525- 561	601- 632	570- 644		
			Sample Size	0	0	0	12	0	22	4	2	4	0	0
		F	Mean Length				526		569	545		575		
			Std. Error				6		5	19		8		
			Range				473- 544		523- 631	504- 638		553- 597		
			Sample Size	0	0	0	11	0	23	6	0	5	0	0
	Grand Total [b]	M	Mean Length	595	529	573	550	594	586	552	603	603		
			Range	595- 595	529- 529	516- 604	430- 619	594- 594	509- 644	525- 625	526- 632	543- 644		
			Sample Size	1	1	15	42	1	415	12	16	41	0	0
		F	Mean Length	0	531	539	531		556	524	573	565		
			Range		531- 531	510- 565	473- 581		485- 632	493- 638	556- 584	518- 680		
			Sample Size	0	1	21	42	0	366	14	7	33	0	0

a "Season" mean lengths are weighted by the commercial harvest in each stratum.

b "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 43. Age and sex of sockeye salmon from the District 4 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1990	6/14, 18, 21	36	M	0	0.0	0	0.0	99	2.8	0	0.0	0	0.0	1,776	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,875	52.8
	(6/14, 18, 21, 25)		F	0	0.0	99	2.8	99	2.8	197	5.6	0	0.0	1,184	33.3	0	0.0	0	0.0	99	2.8	0	0.0	0	0.0	1,677	47.2
			Subtotal	0	0.0	99	2.8	197	5.6	197	5.6	0	0.0	2,960	83.3	0	0.0	0	0.0	99	2.8	0	0.0	0	0.0	3,552	100.0
	7/2	82	M	145	1.2	0	0.0	451	3.7	3,395	28.0	0	0.0	3,989	32.9	0	0.0	148	1.2	0	0.0	0	0.0	0	0.0	8,129	67.1
	(7/2, 5)		F	0	0.0	0	0.0	291	2.4	885	7.3	0	0.0	2,811	23.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,987	32.9
			Subtotal	145	1.2	0	0.0	742	6.1	4,280	35.3	0	0.0	6,801	56.1	0	0.0	148	1.2	0	0.0	0	0.0	0	0.0	12,118	100.0
	7/7	67	M	0	0.0	0	0.0	123	1.5	1,988	23.9	0	0.0	2,237	26.9	0	0.0	0	0.0	373	4.5	0	0.0	0	0.0	4,722	56.7
	(7/7)		F	0	0.0	0	0.0	623	7.5	498	6.0	0	0.0	2,362	28.4	0	0.0	0	0.0	123	1.5	0	0.0	0	0.0	3,606	43.3
			Subtotal	0	0.0	0	0.0	746	9.0	2,486	29.9	0	0.0	4,599	55.2	0	0.0	0	0.0	496	6.0	0	0.0	0	0.0	8,326	100.0
	7/9	60	M	0	0.0	0	0.0	1,279	5.0	8,152	31.7	0	0.0	6,865	26.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16,296	63.3
	(7/9, 11, 13)		F	0	0.0	0	0.0	1,725	6.7	0	0.0	0	0.0	7,284	28.3	0	0.0	0	0.0	438	1.7	0	0.0	0	0.0	9,447	36.7
			Subtotal	0	0.0	0	0.0	3,004	11.7	8,152	31.7	0	0.0	14,149	55.0	0	0.0	0	0.0	438	1.7	0	0.0	0	0.0	25,740	100.0
	7/20	92	M	0	0.0	0	0.0	231	1.1	7,443	34.8	0	0.0	2,096	9.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	9,770	45.7
	(7/16, 19 - 21)		F	0	0.0	0	0.0	231	1.1	9,299	43.5	231	1.1	1,856	8.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11,617	54.3
			Subtotal	0	0.0	0	0.0	462	2.2	16,742	78.3	231	1.1	3,952	18.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	21,387	100.0
	7/25	55	M	0	0.0	0	0.0	254	3.6	2,429	34.5	0	0.0	641	9.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,324	47.2
	(7/23- 26)		F	0	0.0	0	0.0	127	1.8	3,204	45.5	0	0.0	387	5.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,718	52.8
			Subtotal	0	0.0	0	0.0	380	5.4	5,634	80.0	0	0.0	1,028	14.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	7,042	100.0
	7/27	45	M	0	0.0	0	0.0	46	2.2	560	26.7	0	0.0	327	15.6	46	2.2	0	0.0	0	0.0	0	0.0	0	0.0	979	46.7
	(7/27, 28)		F	0	0.0	0	0.0	46	2.2	838	40.0	0	0.0	233	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,117	53.3
			Subtotal	0	0.0	0	0.0	92	4.4	1,398	66.7	0	0.0	560	26.7	46	2.2	0	0.0	0	0.0	0	0.0	0	0.0	2,096	100.0
	7/30	70	M	0	0.0	0	0.0	0	0.0	455	30.0	0	0.0	303	20.0	21	1.4	0	0.0	0	0.0	0	0.0	0	0.0	779	51.4
	(7/30, 31)		F	0	0.0	0	0.0	0	0.0	672	44.3	0	0.0	65	4.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	737	48.6
			Subtotal	0	0.0	0	0.0	0	0.0	1,126	74.3	0	0.0	368	24.3	21	1.4	0	0.0	0	0.0	0	0.0	0	0.0	1,516	100.0
	8/1	66	M	0	0.0	0	0.0	0	0.0	577	30.3	29	1.5	318	16.7	29	1.5	29	1.5	0	0.0	0	0.0	0	0.0	981	51.5
	(8/1 - 3, 6, 8, 13, 16,		F	0	0.0	0	0.0	0	0.0	693	36.4	0	0.0	173	9.1	0	0.0	57	3.0	0	0.0	0	0.0	0	0.0	923	48.5
	18, 20, 23, 27)		Subtotal	0	0.0	0	0.0	0	0.0	1,270	66.7	29	1.5	491	25.8	29	1.5	86	4.5	0	0.0	0	0.0	0	0.0	1,904	100.0
	Season	573	M	145	0.2	0	0.0	2,483	3.0	24,999	29.9	29	0.0	18,552	22.2	96	0.1	176	0.2	373	0.4	0	0.0	0	0.0	46,853	56.0
			F	0	0.0	99	0.1	3,141	3.8	16,286	19.5	231	0.3	16,357	19.5	0	0.0	57	0.1	659	0.8	0	0.0	0	0.0	36,830	44.0
			Total	145	0.2	99	0.1	5,623	6.7	41,285	49.3	260	0.3	34,909	41.7	96	0.1	234	0.3	1,032	1.2	0	0.0	0	0.0	83,681	100.0
1991	6/24	120	M	0	0.0	0	0.0	579	8.3	119	1.7	0	0.0	3,023	43.3	0	0.0	120	1.7	0	0.0	0	0.0	0	0.0	3,841	55.0
	(6/13, 20, 24, 27)		F	0	0.0	0	0.0	405	5.8	175	2.5	56	0.8	2,326	33.3	0	0.0	120	1.7	57	0.8	0	0.0	0	0.0	3,139	45.0
			Subtotal	0	0.0	0	0.0	984	14.1	293	4.2	56	0.8	5,349	76.6	0	0.0	240	3.4	57	0.8	0	0.0	0	0.0	6,981	100.0
	7/1	51	M	0	0.0	0	0.0	412	11.8	0	0.0	0	0.0	1,440	41.2	0	0.0	69	2.0	0	0.0	0	0.0	0	0.0	1,921	54.9
	(7/1)		F	0	0.0	0	0.0	412	11.8	0	0.0	0	0.0	1,027	29.4	0	0.0	69	2.0	69	2.0	0	0.0	0	0.0	1,577	45.1
			Subtotal	0	0.0	0	0.0	824	23.6	0	0.0	0	0.0	2,467	70.5	0	0.0	138	3.9	69	2.0	0	0.0	0	0.0	3,498	100.0
	7/4, 6	49	M	0	0.0	0	0.0	594	6.1	198	2.0	0	0.0	3,759	38.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,550	46.9
	(7/4, 6)		F	0	0.0	0	0.0	396	4.1	198	2.0	198	2.0	3,957	40.8	0	0.0	396	4.1	0	0.0	0	0.0	0	0.0	5,144	53.1
			Subtotal	0	0.0	0	0.0	989	10.2	396	4.1	198	2.0	7,716	79.6	0	0.0	396	4.1	0	0.0	0	0.0	0	0.0	9,694	100.0

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Table 43. Age and sex of sockeye salmon from the District 4 commercial fishery (page 2 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1991 (cont.)	7/8 (7/8)	68	M	122	1.5	0	0.0	483	5.9	0	0.0	0	0.0	3,026	36.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,631	44.1
			F	0	0.0	0	0.0	239	2.9	122	1.5	0	0.0	4,238	51.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,598	55.9
			Subtotal	122	1.5	0	0.0	722	8.8	122	1.5	0	0.0	7,264	88.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	8,229	100.0
	7/11 (7/11, 13, 15)	66	M	0	0.0	0	0.0	721	4.5	241	1.5	0	0.0	3,384	21.2	0	0.0	481	3.0	0	0.0	0	0.0	0	0.0	4,827	30.3
			F	0	0.0	0	0.0	972	6.1	1,929	12.1	241	1.5	7,971	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11,112	69.7
			Subtotal	0	0.0	0	0.0	1,693	10.6	2,170	13.6	241	1.5	11,355	71.2	0	0.0	481	3.0	0	0.0	0	0.0	0	0.0	15,941	100.0
	7/19 (7/17, 19, 22, 24, 26, 29, 31; 8/2, 5, 9, 14, 16, 19, 21, 23, 26, 28, 31; 9/2)	66	M	0	0.0	0	0.0	281	3.0	1,269	13.6	0	0.0	2,116	22.7	0	0.0	142	1.5	0	0.0	0	0.0	0	0.0	3,808	40.9
			F	0	0.0	0	0.0	421	4.5	1,555	16.7	0	0.0	3,530	37.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,506	59.1
			Subtotal	0	0.0	0	0.0	702	7.5	2,824	30.3	0	0.0	5,646	60.6	0	0.0	142	1.5	0	0.0	0	0.0	0	0.0	9,314	100.0
	Season	420	M	122	0.2	0	0.0	3,070	5.7	1,826	3.4	0	0.0	16,748	31.2	0	0.0	812	1.5	0	0.0	0	0.0	0	0.0	22,577	42.1
			F	0	0.0	0	0.0	2,845	5.3	3,978	7.4	494	0.9	23,049	43.0	0	0.0	585	1.1	126	0.2	0	0.0	0	0.0	31,077	57.9
			Total	122	0.2	0	0.0	5,915	11.0	5,804	10.8	494	0.9	39,797	74.2	0	0.0	1,397	2.6	126	0.2	0	0.0	0	0.0	53,657	100.0
1992[c]	(6/15, 18)	0	M																								
			F																								
			Subtotal																							1,014	
	6/24 (6/24)	92	M	22	1.1	0	0.0	65	3.3	66	3.3	43	2.2	823	41.3	22	1.1	0	0.0	22	1.1	0	0.0	0	0.0	1,062	53.3
			F	0	0.0	0	0.0	43	2.2	151	7.6	22	1.1	649	32.6	0	0.0	43	2.2	0	0.0	22	1.1	0	0.0	931	46.7
			Subtotal	22	1.1	0	0.0	109	5.5	217	10.9	65	3.3	1,472	73.9	22	1.1	43	2.2	22	1.1	22	1.1	0	0.0	1,992	100.0
	(6/29)	0	M																								
			F																								
			Subtotal																							3,940	
	(7/1)	0	M																								
			F																								
			Subtotal																							8,625	
	(7/3)	0	M																								
			F																								
			Subtotal																							3,555	
	(7/6 - 7)	0	M																								
			F																								
			Subtotal																							8,381	
	(7/8)	0	M																								
			F																								
			Subtotal																							4,001	
	(7/10)	0	M																								
			F																								
			Subtotal																							7,583	
	7/13 (7/13)	163	M	0	0.0	0	0.0	82	1.2	632	9.2	42	0.6	2,316	33.7	0	0.0	172	2.5	0	0.0	42	0.6	0	0.0	3,286	47.9
			F	0	0.0	0	0.0	124	1.8	845	12.3	42	0.6	2,067	30.1	42	0.6	378	5.5	83	1.2	0	0.0	0	0.0	3,580	52.1
			Subtotal	0	0.0	0	0.0	206	3.0	1,476	21.5	84	1.2	4,383	63.8	42	0.6	551	8.0	83	1.2	42	0.6	0	0.0	6,867	100.0

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Table 43. Age and sex of sockeye salmon from the District 4 commercial fishery (page 3 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1992 (cont.)	(7/15)	0	M																								
			F																								
			Subtotal																							4,763	
	(7/17)	0	M																								
			F																								
			Subtotal																							3,302	
	(7/20)	0	M																								
			F																								
			Subtotal																							1,252	
	(7/22)	0	M																								
			F																								
			Subtotal																							1,298	
	(7/24)	0	M																								
			F																								
			Subtotal																							1,138	
	(7/27, 29, 31; 8/3 5, 7, 10, 12, 14, 17, 19, 21, 24, 26, 28, 31)	0	M																								
			F																								
			Subtotal																							3,212	
	Season	255	M																								
			F																								
			Total																							60,923	
1993	6/24 (6/21, 24)	53	M	0	0.0	0	0.0	317	5.7	317	5.7	211	3.8	2,108	37.7	106	1.9	211	3.8	317	5.7	0	0.0	0	0.0	3,587	64.1
			F	0	0.0	0	0.0	211	3.8	211	3.8	106	1.9	1,162	20.8	0	0.0	317	5.7	0	0.0	0	0.0	0	0.0	2,007	35.9
			Subtotal	0	0.0	0	0.0	528	9.4	528	9.4	317	5.7	3,270	58.5	106	1.9	528	9.4	317	5.7	0	0.0	0	0.0	5,593	100.0
	6/28 (6/28)	58	M	0	0.0	0	0.0	188	1.7	1,882	17.2	0	0.0	3,772	34.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,842	53.4
			F	188	1.7	0	0.0	571	5.2	188	1.7	188	1.7	3,963	36.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	5,099	46.6
			Subtotal	188	1.7	0	0.0	759	6.9	2,070	18.9	188	1.7	7,735	70.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10,941	100.0
	6/30 (6/30, 7/2)	61	M	0	0.0	0	0.0	627	4.9	1,255	9.8	424	3.3	3,982	31.1	0	0.0	848	6.6	0	0.0	0	0.0	0	0.0	7,135	55.7
			F	0	0.0	0	0.0	207	1.6	629	4.9	207	1.6	4,201	32.8	0	0.0	424	3.3	0	0.0	0	0.0	0	0.0	5,668	44.3
			Subtotal	0	0.0	0	0.0	835	6.5	1,883	14.7	631	4.9	8,182	63.9	0	0.0	1,271	9.9	0	0.0	0	0.0	0	0.0	12,803	100.0
	7/9 (7/5, 7, 9)	64	M	465	1.6	0	0.0	1,365	4.7	4,530	15.6	900	3.1	9,524	32.8	465	1.6	0	0.0	0	0.0	0	0.0	0	0.0	17,247	59.4
			F	0	0.0	0	0.0	1,365	4.7	2,265	7.8	0	0.0	6,794	23.4	0	0.0	900	3.1	465	1.6	0	0.0	0	0.0	11,789	40.6
			Subtotal	465	1.6	0	0.0	2,729	9.4	6,794	23.4	900	3.1	16,318	56.2	465	1.6	900	3.1	465	1.6	0	0.0	0	0.0	29,036	100.0
	7/12 (7/12, 14)	58	M	0	0.0	0	0.0	982	6.9	2,937	20.7	741	5.2	3,422	24.1	0	0.0	485	3.4	244	1.7	0	0.0	0	0.0	8,810	62.1
			F	0	0.0	0	0.0	244	1.7	1,958	13.8	0	0.0	2,202	15.5	244	1.7	485	3.4	244	1.7	0	0.0	0	0.0	5,376	37.9
			Subtotal	0	0.0	0	0.0	1,226	8.6	4,894	34.5	741	5.2	5,623	39.6	244	1.7	970	6.8	488	3.4	0	0.0	0	0.0	14,186	100.0
	7/16 (7/16, 19)	56	M	0	0.0	0	0.0	83	1.8	991	21.4	0	0.0	829	17.9	0	0.0	83	1.8	83	1.8	0	0.0	0	0.0	2,067	44.6
			F	0	0.0	0	0.0	249	5.4	829	17.9	0	0.0	1,325	28.6	83	1.8	0	0.0	83	1.8	0	0.0	0	0.0	2,568	55.4
			Subtotal	0	0.0	0	0.0	332	7.2	1,820	39.3	0	0.0	2,153	46.5	83	1.8	83	1.8	165	3.6	0	0.0	0	0.0	4,635	100.0
	7/23 (7/21, 23)	73	M	29	1.4	0	0.0	55	2.7	252	12.3	55	2.7	533	26.0	55	2.7	29	1.4	84	4.1	0	0.0	0	0.0	1,092	53.4
			F	29	1.4	0	0.0	0	0.0	532	26.0	0	0.0	309	15.1	55	2.7	29	1.4	0	0.0	0	0.0	0	0.0	954	46.6
			Subtotal	57	2.8	0	0.0	55	2.7	784	38.3	55	2.7	842	41.1	110	5.4	58	2.8	84	4.1	0	0.0	0	0.0	2,046	100.0

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Table 43. Age and sex of sockeye salmon from the District 4 commercial fishery (page 4 of 5)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1993 (cont.)	7/26 (7/26)	67	M	0	0.0	0	0.0	6	1.5	53	13.4	0	0.0	118	29.9	12	3.0	12	3.0	0	0.0	0	0.0	0	0.0	200	50.7
			F	0	0.0	0	0.0	6	1.5	106	26.9	6	1.5	53	13.4	24	6.0	0	0.0	0	0.0	0	0.0	0	0.0	194	49.3
			Subtotal	0	0.0	0	0.0	12	3.0	159	40.3	6	1.5	171	43.3	35	9.0	12	3.0	0	0.0	0	0.0	0	0.0	394	100.0
	7/28 (7/28, 30; 8/2, 6, 9, 11, 16, 18, 20, 23, 25, 28; 9/1, 3, 6)	45	M	0	0.0	0	0.0	0	0.0	318	24.4	0	0.0	145	11.1	29	2.2	0	0.0	0	0.0	0	0.0	0	0.0	491	37.8
			F	29	2.2	0	0.0	29	2.2	347	26.7	0	0.0	289	22.2	57	4.4	29	2.2	29	2.2	0	0.0	0	0.0	809	62.2
			Subtotal	29	2.2	0	0.0	29	2.2	665	51.1	0	0.0	434	33.4	86	6.6	29	2.2	29	2.2	0	0.0	0	0.0	1,300	100.0
	Season	535	M	493	0.6	0	0.0	3,623	4.5	12,533	15.5	2,331	2.9	24,431	30.2	667	0.8	1,667	2.1	728	0.9	0	0.0	0	0.0	46,472	57.4
			F	245	0.3	0	0.0	2,882	3.6	7,064	8.7	508	0.6	20,297	25.1	463	0.6	2,184	2.7	820	1.0	0	0.0	0	0.0	34,463	42.6
			Total	739	0.9	0	0.0	6,505	8.0	19,597	24.2	2,838	3.5	44,728	55.3	1,130	1.4	3,851	4.8	1,548	1.9	0	0.0	0	0.0	80,934	100.0
1994	7/1 (6/15, 20; 7/1, 4)	177	M	0	0.0	0	0.0	1,182	9.6	628	5.1	0	0.0	5,013	40.7	0	0.0	493	4.0	135	1.1	0	0.0	0	0.0	7,451	60.5
			F	0	0.0	0	0.0	552	4.5	283	2.3	0	0.0	3,680	29.9	0	0.0	207	1.7	71	0.6	71	0.6	0	0.0	4,865	39.5
			Subtotal	0	0.0	0	0.0	1,734	14.1	911	7.4	0	0.0	8,693	70.6	0	0.0	700	5.7	207	1.7	71	0.6	0	0.0	12,316	100.0
	7/8, 11 (7/6, 8, 11, 13, 15)	166	M	0	0.0	0	0.0	2,016	4.8	1,512	3.6	0	0.0	17,972	42.8	0	0.0	512	1.2	252	0.6	0	0.0	0	0.0	22,263	53.0
			F	0	0.0	0	0.0	2,771	6.6	1,512	3.6	252	0.6	13,403	31.9	0	0.0	1,268	3.0	512	1.2	0	0.0	0	0.0	19,719	47.0
			Subtotal	0	0.0	0	0.0	4,787	11.4	3,023	7.2	252	0.6	31,375	74.7	0	0.0	1,780	4.2	764	1.8	0	0.0	0	0.0	41,990	100.0
	7/22 (7/18, 20, 22, 25, 27, 29; 8/1, 3, 5, 8, 10, 12, 15, 17, 19, 22, 24, 26, 29, 31; 9/2)	184	M	0	0.0	0	0.0	490	2.7	2,647	14.7	0	0.0	5,280	29.3	90	0.5	490	2.7	200	1.1	0	0.0	0	0.0	9,197	51.1
			F	0	0.0	0	0.0	200	1.1	3,530	19.6	0	0.0	4,106	22.8	90	0.5	200	1.1	684	3.8	0	0.0	0	0.0	8,810	48.9
			Subtotal	0	0.0	0	0.0	690	3.8	6,177	34.3	0	0.0	9,386	52.1	180	1.0	690	3.8	884	4.9	0	0.0	0	0.0	18,008	100.0
	Season	527	M	0	0.0	0	0.0	3,688	5.1	4,787	6.6	0	0.0	28,264	39.1	90	0.1	1,495	2.1	587	0.8	0	0.0	0	0.0	38,911	53.8
			F	0	0.0	0	0.0	3,523	4.9	5,324	7.4	252	0.3	21,189	29.3	90	0.1	1,675	2.3	1,268	1.8	71	0.1	0	0.0	33,393	46.2
			Total	0	0.0	0	0.0	7,211	10.0	10,111	14.0	252	0.3	49,453	68.4	180	0.2	3,170	4.4	1,855	2.6	71	0.1	0	0.0	72,314	100.0
1995	7/5 (6/13, 17, 20, 24, 26, 29; 7/3, 5)	41	M	507	2.4	0	0.0	0	0.0	2,579	12.2	0	0.0	7,218	34.1	514	2.4	1,548	7.3	0	0.0	0	0.0	0	0.0	12,367	58.5
			F	0	0.0	0	0.0	0	0.0	1,548	7.3	0	0.0	6,199	29.3	0	0.0	512	2.4	512	2.4	0	0.0	0	0.0	8,770	41.5
			Subtotal	512	2.4	0	0.0	0	0.0	4,127	19.5	0	0.0	13,413	63.4	512	2.4	2,059	9.7	512	2.4	0	0.0	0	0.0	21,143	100.0
	7/7 (7/7)	61	M	0	0.0	0	0.0	0	0.0	788	16.4	0	0.0	1,656	34.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,444	50.8
			F	0	0.0	0	0.0	0	0.0	710	14.8	0	0.0	1,498	31.1	78	1.6	0	0.0	78	1.6	0	0.0	0	0.0	2,365	49.2
			Subtotal	0	0.0	0	0.0	0	0.0	1,498	31.1	0	0.0	3,154	65.6	78	1.6	0	0.0	78	1.6	0	0.0	0	0.0	4,812	100.0
	7/10 (7/10, 12)	164	M	0	0.0	0	0.0	0	0.0	3,060	18.3	0	0.0	4,899	29.3	719	4.3	401	2.4	0	0.0	0	0.0	0	0.0	9,080	54.3
			F	0	0.0	0	0.0	0	0.0	3,261	19.5	0	0.0	3,879	23.2	502	3.0	0	0.0	0	0.0	0	0.0	0	0.0	7,641	45.7
			Subtotal	0	0.0	0	0.0	0	0.0	6,321	37.8	0	0.0	8,779	52.5	1,221	7.3	401	2.4	0	0.0	0	0.0	0	0.0	16,721	100.0
	7/17 (7/14, 17)	176	M	0	0.0	0	0.0	0	0.0	2,047	18.8	0	0.0	2,421	22.2	556	5.1	120	1.1	0	0.0	0	0.0	0	0.0	5,143	47.2
			F	0	0.0	0	0.0	0	0.0	3,160	29.0	0	0.0	1,919	17.6	371	3.4	249	2.3	63	0.6	0	0.0	0	0.0	5,762	52.8
			Subtotal	0	0.0	0	0.0	0	0.0	5,207	47.8	0	0.0	4,340	39.8	927	8.5	369	3.4	63	0.6	0	0.0	0	0.0	10,904	100.0
	7/21 (7/19 - 9/6)	178	M	0	0.0	0	0.0	0	0.0	4,725	27.0	0	0.0	2,751	15.7	1,081	6.2	100	0.6	100	0.6	0	0.0	0	0.0	8,757	50.0
			F	0	0.0	0	0.0	0	0.0	4,820	27.5	0	0.0	2,958	16.9	687	3.9	100	0.6	193	1.1	0	0.0	0	0.0	8,757	50.0
			Subtotal	0	0.0	0	0.0	0	0.0	9,545	54.5	0	0.0	5,710	32.6	1,767	10.1	200	1.1	292	1.7	0	0.0	0	0.0	17,514	100.0
	Season	620	M	507	0.7	0	0.0	0	0.0	13,199	18.6	0	0.0	18,946	26.6	2,870	4.0	2,169	3.1	100	0.1	0	0.0	0	0.0	37,791	53.2
			F	0	0.0	0	0.0	0	0.0	13,498	19.0	0	0.0	16,454	23.1	1,637	2.3	860	1.2	846	1.2	0	0.0	0	0.0	33,295	46.8
			Total	512	0.7	0	0.0	0	0.0	26,698	37.6	0	0.0	35,395	49.8	4,505	6.3	3,029	4.3	946	1.3	0	0.0	0	0.0	71,094	100.0

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Table 43. Age and sex of sockeye salmon from the District 4 commercial fishery (page 5 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1996	7/6, 9	166	M	0	0.0	0	0.0	1,207	4.2	1,376	4.8	0	0.0	8,447	29.5	172	0.6	0	0.0	1,033	3.6	0	0.0	172	0.6	12,406	43.4
	(6/22, 25, 29;		F	0	0.0	0	0.0	858	3.0	2,403	8.4	0	0.0	11,728	41.0	0	0.0	0	0.0	1,201	4.2	0	0.0	0	0.0	16,191	56.6
	7/3, 6, 9)		Subtotal	0	0.0	0	0.0	2,065	7.2	3,779	13.2	0	0.0	20,176	70.5	172	0.6	0	0.0	2,234	7.8	0	0.0	172	0.6	28,606	100.0
	7/13	182	M	0	0.0	0	0.0	330	2.7	673	5.5	0	0.0	3,767	30.8	136	1.1	65	0.5	406	3.3	0	0.0	0	0.0	5,377	44.0
	(7/11, 13)		F	0	0.0	0	0.0	136	1.1	942	7.7	0	0.0	5,309	43.4	199	1.6	65	0.5	199	1.6	0	0.0	0	0.0	6,850	56.0
			Subtotal	0	0.0	0	0.0	466	3.8	1,615	13.2	0	0.0	9,076	74.2	335	2.7	130	1.1	605	5.0	0	0.0	0	0.0	12,232	100.0
	7/17	161	M	101	0.6	0	0.0	320	1.9	942	5.6	0	0.0	5,014	29.8	101	0.6	0	0.0	522	3.1	0	0.0	0	0.0	7,000	41.6
	(7/15 - 8/26)		F	0	0.0	0	0.0	522	3.1	3,248	19.3	0	0.0	5,014	29.8	841	5.0	202	1.2	0	0.0	0	0.0	0	0.0	9,827	58.4
			Subtotal	101	0.6	0	0.0	841	5.0	4,190	24.9	0	0.0	10,029	59.6	942	5.6	202	1.2	522	3.1	0	0.0	0	0.0	16,827	100.0
	Season	509	M	101	0.2	0	0.0	1,857	3.2	2,991	5.2	0	0.0	17,229	29.9	408	0.7	65	0.1	1,960	3.4	0	0.0	172	0.3	24,784	43.0
			F	0	0.0	0	0.0	1,516	2.6	6,592	11.4	0	0.0	22,052	38.2	1,041	1.8	267	0.5	1,401	2.4	0	0.0	0	0.0	32,868	57.0
			Total	101	0.2	0	0.0	3,373	5.8	9,583	16.6	0	0.0	39,281	68.1	1,449	2.5	332	0.6	3,361	5.8	0	0.0	172	0.3	57,665	100.0
1997	6/19 [d]	155	M	0	0.0	0	0.0	30	1.3	119	5.2	15	0.7	729	31.6	30	1.3	74	3.2	59	2.6	0	0.0	0	0.0	1,056	45.8
	(6/13, 16, 19)		F	0	0.0	0	0.0	59	2.6	104	4.5	44	1.9	773	33.6	0	0.0	149	6.5	119	5.1	0	0.0	0	0.0	1,249	54.2
			Subtotal	0	0.0	0	0.0	89	3.9	223	9.7	59	2.6	1,502	65.2	30	1.3	223	9.7	178	7.7	0	0.0	0	0.0	2,305	100.0
	6/26 [d]	185	M	0	0.0	0	0.0	460	3.2	766	5.4	77	0.5	3,906	27.6	230	1.6	766	5.4	613	4.3	0	0.0	0	0.0	6,817	48.1
	(6/23, 26, 30)		F	0	0.0	0	0.0	383	2.7	919	6.5	153	1.1	4,060	28.6	153	1.1	1,072	7.6	613	4.3	0	0.0	0	0.0	7,354	51.9
			Subtotal	0	0.0	0	0.0	843	5.9	1,685	11.9	230	1.6	7,966	56.2	383	2.7	1,838	13.0	1,226	8.6	0	0.0	0	0.0	14,171	100.0
	7/4 [d]	97	M	0	0.0	0	0.0	263	1.1	790	3.1	527	2.1	8,424	33.0	0	0.0	2,106	8.2	1,053	4.1	0	0.0	0	0.0	13,162	51.5
	(7/2, 4, 7)		F	0	0.0	0	0.0	263	1.0	263	1.0	526	2.0	8,950	35.0	263	1.0	790	3.1	1,316	5.2	0	0.0	0	0.0	12,373	48.5
			Subtotal	0	0.0	0	0.0	526	2.1	1,053	4.1	1,053	4.1	17,374	68.0	263	1.0	2,896	11.3	2,369	9.3	0	0.0	0	0.0	25,535	100.0
	7/11 [d]	176	M	0	0.0	0	0.0	152	1.2	1,968	14.8	151	1.1	3,331	25.0	76	0.6	530	4.0	454	3.4	0	0.0	0	0.0	6,661	50.0
	(7/9, 11, 14)		F	76	0.6	0	0.0	151	1.1	1,362	10.2	379	2.9	3,330	25.0	0	0.0	681	5.1	681	5.1	0	0.0	0	0.0	6,660	50.0
			Subtotal	76	0.6	0	0.0	303	2.3	3,330	25.0	530	4.0	6,661	50.0	76	0.6	1,211	9.1	1,135	8.5	0	0.0	0	0.0	13,321	100.0
	7/18 [d]	178	M	0	0.0	0	0.0	99	1.1	1,725	19.7	98	1.1	1,478	16.8	0	0.0	247	2.8	345	3.9	0	0.0	0	0.0	3,992	45.5
	(7/16, 18, 21)		F	49	0.6	0	0.0	98	1.1	1,725	19.6	296	3.4	1,725	19.7	99	1.1	394	4.5	394	4.5	0	0.0	0	0.0	4,780	54.5
			Subtotal	49	0.6	0	0.0	197	2.2	3,450	39.3	394	4.5	3,203	36.5	99	1.1	641	7.3	739	8.4	0	0.0	0	0.0	8,772	100.0
	7/25 [d]	161	M	0	0.0	0	0.0	34	0.6	1,017	18.6	0	0.0	1,017	18.7	0	0.0	102	1.9	169	3.1	0	0.0	0	0.0	2,339	42.9
	(7/23, 25, 28, 30;		F	0	0.0	0	0.0	203	3.7	1,695	31.1	68	1.2	678	12.4	34	0.6	339	6.2	102	1.9	0	0.0	0	0.0	3,119	57.1
	8/1, 4, 6, 8, 13, 15,		Subtotal	0	0.0	0	0.0	237	4.3	2,712	49.7	68	1.2	1,695	31.1	34	0.6	441	8.1	271	5.0	0	0.0	0	0.0	5,458	100.0
	18, 20, 22, 25, 28)																										
	Season	952	M	0	0.0	0	0.0	1,036	1.5	6,384	9.2	868	1.3	18,885	27.1	335	0.5	3,824	5.5	2,694	3.9	0	0.0	0	0.0	34,027	48.9
			F	125	0.2	0	0.0	1,159	1.7	6,069	8.7	1,466	2.1	19,516	28.1	549	0.8	3,426	4.9	3,225	4.6	0	0.0	0	0.0	35,535	51.1
			Total	125	0.2	0	0.0	2,195	3.2	12,453	17.9	2,334	3.4	38,401	55.2	884	1.3	7,250	10.4	5,919	8.5	0	0.0	0	0.0	69,562	100.0
	Grand	3,184	M	1,368	0.3	0	0.0	15,756	3.2	66,719	13.6	3,227	0.7	143,056	29.3	4,466	0.9	10,208	2.1	6,442	1.3	0	0.0	172	0.0	251,416	51.4
	Total [e]		F	370	0.1	99	0.0	15,065	3.1	58,813	12.0	2,951	0.6	138,912	28.4	3,780	0.8	9,054	1.9	8,345	1.7	71	0.0	0	0.0	237,460	48.6
			Total	1,743	0.4	99	0.0	30,821	6.3	125,532	25.7	6,178	1.3	281,964	57.7	8,243	1.7	19,261	3.9	14,788	3.0	71	0.0	172	0.0	488,907	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] Sampling dates to not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total"
[d] Sex of all fish was confirmed by visual inspection of the gonads.
[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 44. Mean length (mm) of sockeye salmon from the District 4 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995	7/5 (6/13, 17, 20, 24, 26, 29; 7/3, 5)	M	Mean Length	410			506		581	525	598			
			Std. Error	-			10		8	-	11			
			Range	410- 410			468- 530		525- 634	525- 525	575- 610			
			Sample Size	1	0	0	5	0	14	1	3	0	0	0
		F	Mean Length				507		550		570	545		
			Std. Error				5		4		-	-		
			Range				498- 514		525- 575		570- 570	545- 545		
			Sample Size	0	0	0	3	0	12	0	1	1	0	0
	7/7 (7/7)	M	Mean Length				540		590					
			Std. Error				5		4					
			Range				513- 562		535- 614					
			Sample Size	0	0	0	10	0	21	0	0	0	0	0
		F	Mean Length				518		562	500		575		
			Std. Error				7		4	-		-		
			Range				495- 565		528- 588	500- 500		575- 575		
			Sample Size	0	0	0	9	0	19	1	0	1	0	0
	7/10 (7/10, 12)	M	Mean Length				534		594	531	566			
			Std. Error				2		4	6	20			
			Range				508- 560		520- 700	510- 551	540- 625			
			Sample Size	0	0	0	30	0	48	7	4	0	0	0
		F	Mean Length				514		551	493				
			Std. Error				4		3	8				
			Range				478- 588		508- 613	471- 510				
			Sample Size	0	0	0	32	0	38	5	0	0	0	0
	7/17 (7/14, 17)	M	Mean Length				535		593	532	613			
			Std. Error				3		3	5	7			
			Range				489- 574		537- 630	509- 548	606- 620			
			Sample Size	0	0	0	33	0	39	9	2	0	0	0
		F	Mean Length				507		553	513	577	547		
			Std. Error				3		4	10	14	-		
			Range				466- 590		501- 590	467- 534	535- 599	547- 547		
			Sample Size	0	0	0	51	0	31	6	4	1	0	0
	7/21 (7/19, 21, 24, 26, 28, 31; 8/2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25, 28, 30; 9/1, 4, 6)	M	Mean Length				516		569	525	580	521		
			Std. Error				5		4	9	-	-		
			Range				377- 569		497- 616	499- 602	580- 580	521- 521		
			Sample Size	0	0	0	48	0	28	11	1	1	0	0
		F	Mean Length				497		534	498	542	536		
			Std. Error				3		3	5	-	3		
			Range				459- 568		499- 560	464- 524	542- 542	533- 538		
			Sample Size	0	0	0	49	0	30	7	1	2	0	0

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Table 44. Mean length (mm) of sockeye salmon from the District 4 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995 (cont.)	Season	M	Mean Length	410			523		585	528	592	521		
			Range	410- 410			377- 574		497- 700	499- 602	540- 625	521- 521		
			Sample Size	1	0	0	126	0	150	28	10	1	0	0
		F	Mean Length				507		549	465	569	546		
			Range				466- 590		499- 613	467- 534	535- 599	533- 575		
			Sample Size	0	0	0	144	0	130	19	6	5	0	0
1996	7/6, 9 (6/22, 25, 29; 7/3, 6, 9)	M	Mean Length			576	547		586	576		561		612
			Std. Error			4	10		3	-		18		-
			Range			565- 594	486- 572		512- 630	576- 576		497- 602		612- 612
			Sample Size	0	0	7	8	0	49	1	0	6	0	1
		F	Mean Length			554	512		555			558		
			Std. Error			9	6		2			12		
			Range			523- 573	480- 548		488- 610			483- 594		
			Sample Size	0	0	5	14	0	68	0	0	7	0	0
	7/13 (7/11, 13)	M	Mean Length			569	530		586	521	593	591		
			Std. Error			10	9		3	7	-	7		
			Range			541- 603	492- 586		504- 641	514- 526	593- 593	561- 613		
			Sample Size	0	0	5	10	0	56	2	1	6	0	0
		F	Mean Length			521	507		548	507	506	552		
			Std. Error			8	6		2	5	-	4		
			Range			513- 529	459- 547		502- 587	499- 516	506- 506	547- 559		
			Sample Size	0	0	2	14	0	79	3	1	3	0	0
	7/17 (7/15 - 8/26)	M	Mean Length	420		598	523		594	527		563		
			Std. Error	-		12	16		4	-		15		
			Range	420- 420		578- 619	407- 555		539- 653	527- 527		520- 603		
			Sample Size	1	0	3	9	0	48	1	0	5	0	0
		F	Mean Length			583	507		560	520	574			
			Std. Error			12	4		4	727	3			
			Range			547- 623	479- 563		506- 625	485- 557	571- 577			
			Sample Size	0	0	5	31	0	48	8	2		0	0
	Season	M	Mean Length	420		579	536		589	546	593	568		612
			Range	420- 420		541- 619	407- 586		504- 653	514- 576	593- 593	497- 613		612- 612
			Sample Size	1	0	15	27	0	153	4	1	17	0	1
		F	Mean Length			561	509		555	517	557	557		
			Range			513- 623	459- 548		488- 625	485- 557	506- 577	483- 594		
			Sample Size	0	0	12	59	0	195	11	3	10	0	0

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Table 44. Mean length (mm) of sockeye salmon from the District 4 commercial fishery (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997	6/19 [b] (6/13, 16, 19)	M	Mean Length			566	513	626	597	502	622	610		
			Std. Error			21	19	-	4	3	11	7		
			Range			545- 586	432- 583	626- 626	514- 641	499- 505	585- 643	592- 626		
			Sample Size	0	0	2	6	1	49	2	5	4	0	0
		F	Mean Length			553	525	597	562		601	558		
			Std. Error			9	8	5	3		6	6		
			Range			530- 570	495- 555	591- 607	505- 618		561- 631	533- 580		
			Sample Size	0	0	4	7	3	52	0	10	8	0	0
	6/26 [b] (6/23, 26, 30)	M	Mean Length			610	535	645	598	577	632	602		
			Std. Error			11	10	-	3	2	11	8		
			Range			582- 656	484- 580	645- 645	535- 659	574- 582	567- 686	556- 623		
			Sample Size	0	0	6	10	1	51	3	10	8	0	0
		F	Mean Length			557	533	586	560	543	588	560		
			Std. Error			10	9	14	4	20	6	9		
			Range			537- 593	468- 573	572- 600	490- 617	523- 563	553- 616	528- 610		
			Sample Size	0	0	5	12	2	53	2	14	8	0	0
	7/4 [b] (7/2, 4, 7)	M	Mean Length			555	555	631	590		606	593		
			Std. Error			-	4	4	3		9	16		
			Range			555- 555	550- 562	627- 635	556- 636		564- 646	545- 615		
			Sample Size	0	0	1	3	2	32	0	8	4	0	0
		F	Mean Length			577	496	588	554	520	579	562		
			Std. Error			-	-	17	4	-	13	12		
			Range			577- 577	496- 496	571- 605	505- 585	520- 520	556- 600	530- 596		
			Sample Size	0	0	1	1	2	34	1	3	5	0	0
	7/11 [b] (7/9, 11, 14)	M	Mean Length			578	544	638	587	570	634	586		
			Std. Error			11	4	10	3	-	12	8		
			Range			567- 588	507- 588	628- 648	552- 641	570- 570	580- 684	562- 607		
			Sample Size	0	0	2	26	2	44	1	7	6	0	0
		F	Mean Length	480		545	513	578	550		589	552		
			Std. Error	-		35	7	11	4		7	5		
			Range	480- 480		510- 580	453- 587	537- 599	487- 595		555- 618	532- 573		
			Sample Size	1	0	2	18	5	44	0	9	9	0	0
	7/18 [b] (7/16, 18, 21)	M	Mean Length			577	531	629	588		614	585		
			Std. Error			19	4	15	3		11	8		
			Range			558- 595	473- 581	614- 644	545- 619		593- 641	545- 600		
			Sample Size	0	0	2	35	2	30	0	5	7	0	0
		F	Mean Length	502		518	502	571	550	527	572	567		
			Std. Error	-		3	3	6	3	13	4	8		
			Range	502- 502		515- 520	467- 540	554- 585	520- 596	514- 540	550- 588	520- 598		
			Sample Size	1	0	2	35	6	35	2	8	8	0	0

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Table 44. Mean length (mm) of sockeye salmon from the District 4 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class										
				0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997 (cont.)	7/25 [b] (7/23, 25, 28, 30; 8/1, 4, 6, 8, 13, 15, 18, 20, 22, 25, 28)	M	Mean Length			528	513		578		565	553		
			Std. Error			-	5		4		18	5		
			Range			528- 528	465- 596		520- 617		545- 601	543- 571		
			Sample Size	0	0	1	30	0	30	0	3	5	0	0
		F	Mean Length			519	487	570	535	488	553	522		
			Std. Error			8	3	17	7	-	8	21		
			Range			489- 548	456- 526	553- 586	474- 577	488- 488	504- 587	483- 553		
			Sample Size	0	0	6	50	2	20	1	10	3	0	0
	Season	M	Mean Length			584	536	633	590	569	615	591		
			Range			528- 656	432- 596	614- 648	514- 659	499- 582	545- 688	543- 626		
			Sample Size	0	0	14	112	8	236	6	38	34	0	0
		F	Mean Length	489		550	505	581	554	526	581	559		
			Range	480- 502		489- 593	453- 587	537- 607	474- 618	488- 563	504- 631	483- 610		
			Sample Size	2	0	20	123	20	238	6	54	41	0	0
	Grand Total [c]	M	Mean Length	415		581	532	633	588	548	600	560		612
			Range	410- 420		528- 656	377- 596	614- 648	497- 700	499- 602	540- 688	497- 626		612- 612
			Sample Size	2	0	29	265	8	539	38	49	52	0	1
		F	Mean Length	489		556	507	581	553	503	569	554		
			Range	480- 502		489- 623	453- 590	537- 607	474- 625	467- 563	504- 631	483- 610		
			Sample Size	2	0	32	326	20	563	36	63	56	0	0

a "Season" mean lengths are weighted by the commercial harvest in each stratum.
b Sex of all fish was confirmed by visual inspection of the gonads.
c "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 45. Age and sex of sockeye salmon from the District 5 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1990	6/20	43	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	265	74.4	0	0.0	0	0.0	27	7.0	0	0.0	0	0.0	312	81.4
	(6/20)		F	0	0.0	0	0.0	9	2.3	0	0.0	0	0.0	62	16.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	71	18.6
			Subtotal	0	0.0	0	0.0	9	2.3	0	0.0	0	0.0	347	90.7	0	0.0	0	0.0	27	7.0	0	0.0	0	0.0	383	100.0
	6/25	98	M	0	0.0	0	0.0	0	0.0	118	7.1	0	0.0	912	55.1	0	0.0	34	2.0	34	2.0	0	0.0	0	0.0	1,098	66.3
	(6/25)		F	0	0.0	0	0.0	17	1.0	34	2.0	0	0.0	456	27.6	0	0.0	34	2.0	17	1.0	0	0.0	0	0.0	558	33.7
			Subtotal	0	0.0	0	0.0	17	1.0	152	9.2	0	0.0	1,369	82.7	0	0.0	68	4.1	51	3.1	0	0.0	0	0.0	1,656	100.0
	6/29	60	M	0	0.0	0	0.0	381	3.3	381	3.3	197	1.7	5,567	48.3	381	3.3	381	3.3	578	5.0	0	0.0	0	0.0	7,868	68.3
	(6/29, 7/2)		F	0	0.0	0	0.0	197	1.7	0	0.0	0	0.0	3,456	30.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	3,653	31.7
			Subtotal	0	0.0	0	0.0	578	5.0	381	3.3	197	1.7	9,023	78.3	381	3.3	381	3.3	578	5.0	0	0.0	0	0.0	11,521	100.0
	7/5	108	M	0	0.0	0	0.0	682	8.3	682	8.3	0	0.0	4,874	59.3	74	0.9	74	0.9	838	10.2	0	0.0	0	0.0	7,225	87.9
	(7/5, 7, 9)		F	0	0.0	0	0.0	156	1.9	0	0.0	0	0.0	682	8.3	0	0.0	0	0.0	156	1.9	0	0.0	0	0.0	994	12.1
			Subtotal	0	0.0	0	0.0	838	10.2	682	8.3	0	0.0	5,556	67.6	74	0.9	74	0.9	994	12.1	0	0.0	0	0.0	8,219	100.0
	7/16	62	M	0	0.0	0	0.0	0	0.0	911	11.3	0	0.0	2,210	27.4	652	8.1	0	0.0	652	8.1	0	0.0	0	0.0	4,426	54.8
	(7/11, 13, 16, 18)		F	0	0.0	0	0.0	525	6.5	911	11.3	0	0.0	1,429	17.7	525	6.5	0	0.0	258	3.2	0	0.0	0	0.0	3,648	45.2
			Subtotal	0	0.0	0	0.0	525	6.5	1,823	22.6	0	0.0	3,639	45.1	1,177	14.6	0	0.0	911	11.3	0	0.0	0	0.0	8,073	100.0
	7/23	87	M	0	0.0	0	0.0	66	1.1	412	6.9	0	0.0	1,099	18.4	687	11.5	0	0.0	549	9.2	0	0.0	0	0.0	2,813	47.1
	(7/20, 21, 23 - 28, 30, 31;		F	0	0.0	0	0.0	66	1.1	551	9.2	0	0.0	1,787	29.9	551	9.2	0	0.0	204	3.4	0	0.0	0	0.0	3,158	52.9
	8/1 - 3, 6, 8, 10, 13,		Subtotal	0	0.0	0	0.0	133	2.2	963	16.1	0	0.0	2,885	48.3	1,237	20.7	0	0.0	754	12.6	0	0.0	0	0.0	5,971	100.0
	16, 20, 27, 29; 9/7)																										
	Season	458	M	0	0.0	0	0.0	1,130	3.2	2,505	7.0	197	0.5	14,947	41.7	1,794	5.0	489	1.4	2,679	7.5	0	0.0	0	0.0	23,742	66.3
			F	0	0.0	0	0.0	970	2.7	1,496	4.2	0	0.0	7,873	22.0	1,075	3.0	34	0.1	636	1.8	0	0.0	0	0.0	12,083	33.7
			Total	0	0.0	0	0.0	2,100	5.9	4,001	11.2	197	0.5	22,820	63.7	2,870	8.0	523	1.5	3,315	9.3	0	0.0	0	0.0	35,823	100.0
1991	6/20	45	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	256	48.9	0	0.0	0	0.0	12	2.2	0	0.0	0	0.0	267	51.1
	(6/20)		F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	232	44.4	0	0.0	23	4.4	0	0.0	0	0.0	0	0.0	256	48.9
			Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	488	93.3	0	0.0	23	4.4	12	2.2	0	0.0	0	0.0	523	100.0
	6/27	58	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,363	44.8	52	1.7	0	0.0	104	3.4	0	0.0	0	0.0	1,519	50.0
	(6/27)		F	0	0.0	0	0.0	104	3.4	0	0.0	0	0.0	1,311	43.1	0	0.0	0	0.0	104	3.4	0	0.0	0	0.0	1,519	50.0
			Subtotal	0	0.0	0	0.0	104	3.4	0	0.0	0	0.0	2,673	87.9	52	1.7	0	0.0	209	6.9	0	0.0	0	0.0	3,040	100.0
	7/1	101	M	0	0.0	0	0.0	100	3.0	33	1.0	0	0.0	1,472	43.6	0	0.0	33	1.0	67	2.0	0	0.0	0	0.0	1,704	50.5
	(7/1)		F	0	0.0	0	0.0	100	3.0	100	3.0	0	0.0	1,337	39.6	0	0.0	0	0.0	134	4.0	0	0.0	0	0.0	1,672	49.5
			Subtotal	0	0.0	0	0.0	201	5.9	133	3.9	0	0.0	2,809	83.2	0	0.0	33	1.0	201	6.0	0	0.0	0	0.0	3,376	100.0
	7/6	41	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,737	56.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	6,737	56.1
	(7/6, 8)		F	0	0.0	0	0.0	0	0.0	0	0.0	288	2.4	4,395	36.6	0	0.0	0	0.0	588	4.9	0	0.0	0	0.0	5,272	43.9
			Subtotal	0	0.0	0	0.0	0	0.0	0	0.0	288	2.4	11,132	92.7	0	0.0	0	0.0	588	4.9	0	0.0	0	0.0	12,009	100.0
	7/11	35	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,671	42.9	0	0.0	0	0.0	221	5.7	0	0.0	0	0.0	1,893	48.6
	(7/11)		F	0	0.0	0	0.0	112	2.9	0	0.0	0	0.0	1,671	42.9	0	0.0	0	0.0	221	5.7	0	0.0	0	0.0	2,005	51.4
			Subtotal	0	0.0	0	0.0	112	2.9	0	0.0	0	0.0	3,343	85.8	0	0.0	0	0.0	443	11.4	0	0.0	0	0.0	3,898	100.0
	7/13	68	M	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2,687	52.9	147	2.9	76	1.5	147	2.9	0	0.0	0	0.0	3,058	60.2
	(7/13, 14)		F	0	0.0	0	0.0	76	1.5	0	0.0	0	0.0	1,570	30.9	0	0.0	0	0.0	376	7.4	0	0.0	0	0.0	2,022	39.8
			Subtotal	0	0.0	0	0.0	76	1.5	0	0.0	0	0.0	4,257	83.8	147	2.9	76	1.5	523	10.3	0	0.0	0	0.0	5,080	100.0

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Table 45. Age and sex of sockeye salmon from the District 5 commercial fishery (page 2 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1991 (cont.)	7/22 (7/17 - 20, 22, 23)	83	M	0	0.0	0	0.0	172	2.4	517	7.2	0	0.0	2,509	34.9	174	2.4	174	2.4	433	6.0	0	0.0	0	0.0	3,979	55.4
			F	0	0.0	0	0.0	172	2.4	172	2.4	88	1.2	2,164	30.1	174	2.4	0	0.0	433	6.0	0	0.0	0	0.0	3,203	44.6
			Subtotal	0	0.0	0	0.0	345	4.8	690	9.6	88	1.2	4,673	65.0	348	4.8	174	2.4	865	12.0	0	0.0	0	0.0	7,185	100.0
	7/26 (7/24 - 27)	84	M	30	1.2	0	0.0	30	1.2	175	7.1	0	0.0	586	23.8	382	15.5	0	0.0	323	13.1	0	0.0	0	0.0	1,525	61.9
			F	0	0.0	0	0.0	30	1.2	59	2.4	0	0.0	586	23.8	147	6.0	0	0.0	118	4.8	0	0.0	0	0.0	940	38.1
			Subtotal	30	1.2	0	0.0	59	2.4	234	9.5	0	0.0	1,172	47.6	529	21.5	0	0.0	441	17.9	0	0.0	0	0.0	2,465	100.0
	7/31 (7/29 - 31, 8/1, 2, 5, 9, 14, 16, 19, 21, 28, 31; 9/2)	49	M	0	0.0	0	0.0	0	0.0	138	6.1	0	0.0	461	20.4	323	14.3	0	0.0	231	10.2	0	0.0	0	0.0	1,154	51.0
			F	0	0.0	0	0.0	0	0.0	45	2.0	0	0.0	324	14.3	417	18.4	46	2.0	276	12.2	0	0.0	0	0.0	1,108	49.0
			Subtotal	0	0.0	0	0.0	0	0.0	183	8.1	0	0.0	785	34.7	740	32.7	46	2.0	507	22.4	0	0.0	0	0.0	2,262	100.0
	Season	564	M	30	0.1	0	0.0	302	0.8	863	2.2	0	0.0	17,743	44.5	1,079	2.7	283	0.7	1,537	3.9	0	0.0	0	0.0	21,837	54.8
			F	0	0.0	0	0.0	595	1.5	377	0.9	376	0.9	13,591	34.1	738	1.9	69	0.2	2,251	5.7	0	0.0	0	0.0	17,996	45.2
			Total	30	0.1	0	0.0	897	2.3	1,240	3.1	376	0.9	31,333	78.7	1,817	4.6	352	0.9	3,788	9.5	0	0.0	0	0.0	39,838	100.0
1992	6/22 (6/22, 25)	49	M	39	2.0	0	0.0	79	4.1	79	4.1	39	2.0	275	14.3	79	4.1	79	4.1	158	8.2	39	2.0	0	0.0	865	44.9
			F	117	6.1	0	0.0	117	6.1	79	4.1	79	4.1	393	20.4	0	0.0	39	2.0	197	10.2	39	2.0	0	0.0	1,060	55.1
			Subtotal	156	8.1	0	0.0	196	10.2	158	8.2	117	6.1	669	34.7	79	4.1	117	6.1	355	18.4	77	4.0	0	0.0	1,926	100.0
	7/2 (6/29; 7/2, 6)	37	M	0	0.0	0	0.0	687	8.1	1,146	13.5	0	0.0	2,519	29.7	230	2.7	0	0.0	230	2.7	0	0.0	0	0.0	4,812	56.8
			F	229	2.7	0	0.0	229	2.7	687	8.1	0	0.0	2,060	24.3	0	0.0	230	2.7	230	2.7	0	0.0	0	0.0	3,664	43.2
			Subtotal	229	2.7	0	0.0	916	10.8	1,833	21.6	0	0.0	4,579	54.0	230	2.7	230	2.7	459	5.4	0	0.0	0	0.0	8,477	100.0
	7/13 (7/9, 10, 13, 14)	98	M	791	8.2	0	0.0	791	8.2	1,285	13.4	99	1.0	2,274	23.7	0	0.0	297	3.1	0	0.0	198	2.1	0	0.0	5,734	59.8
			F	99	1.0	0	0.0	593	6.2	890	9.3	99	1.0	2,076	21.6	0	0.0	99	1.0	0	0.0	0	0.0	0	0.0	3,856	40.2
			Subtotal	890	9.3	0	0.0	1,384	14.4	2,175	22.7	198	2.1	4,350	45.4	0	0.0	395	4.1	0	0.0	198	2.1	0	0.0	9,590	100.0
	7/16 (7/16, 17)	65	M	306	6.2	0	0.0	536	10.8	536	10.8	153	3.1	1,528	30.8	0	0.0	154	3.1	0	0.0	0	0.0	0	0.0	3,212	64.6
			F	153	3.1	0	0.0	154	3.1	536	10.8	75	1.5	766	15.4	0	0.0	75	1.5	0	0.0	0	0.0	0	0.0	1,757	35.4
			Subtotal	459	9.2	0	0.0	689	13.9	1,071	21.6	227	4.6	2,294	46.2	0	0.0	228	4.6	0	0.0	0	0.0	0	0.0	4,969	100.0
	7/20 (7/20, 21, 23, 24)	158	M	0	0.0	0	0.0	240	3.8	756	12.0	0	0.0	2,396	38.0	0	0.0	158	2.5	38	0.6	0	0.0	0	0.0	3,587	56.9
			F	82	1.3	38	0.6	82	1.3	681	10.8	0	0.0	1,715	27.2	0	0.0	82	1.3	38	0.6	0	0.0	0	0.0	2,717	43.1
			Subtotal	82	1.3	38	0.6	322	5.1	1,437	22.8	0	0.0	4,110	65.2	0	0.0	240	3.8	76	1.2	0	0.0	0	0.0	6,304	100.0
	7/27 (7/27, 28, 30, 31; 8/3, 6, 10, 14, 17, 20, 21, 24, 27, 28, 31; 9/3, 4)	166	M	0	0.0	95	1.2	48	0.6	1,340	16.9	0	0.0	2,672	33.7	0	0.0	48	0.6	95	1.2	0	0.0	0	0.0	4,297	54.2
			F	0	0.0	95	1.2	0	0.0	1,102	13.9	0	0.0	2,244	28.3	48	0.6	95	1.2	0	0.0	48	0.6	0	0.0	3,631	45.8
			Subtotal	0	0.0	190	2.4	48	0.6	2,442	30.8	0	0.0	4,915	62.0	48	0.6	143	1.8	95	1.2	48	0.6	0	0.0	7,928	100.0
	Season	573	M	1,136	2.9	95	0.2	2,379	6.1	5,142	13.1	290	0.7	11,664	29.8	309	0.8	734	1.9	521	1.3	236	0.6	0	0.0	22,506	57.4
			F	680	1.7	133	0.3	1,175	3.0	3,974	10.1	252	0.6	9,254	23.6	48	0.1	619	1.6	464	1.2	86	0.2	0	0.0	16,685	42.6
			Total	1,816	4.6	228	0.6	3,554	9.1	9,116	23.3	542	1.4	20,918	53.4	356	0.9	1,353	3.5	985	2.5	322	0.8	0	0.0	39,194	100.0
1993	6/30, 7/1 (6/28; 30; 7/2)	156	M	0	0.0	0	0.0	388	2.6	1,538	10.3	0	0.0	3,540	23.7	0	0.0	0	0.0	90	0.6	0	0.0	0	0.0	5,556	37.2
			F	0	0.0	0	0.0	956	6.4	1,628	10.9	0	0.0	6,318	42.3	90	0.6	194	1.3	194	1.3	0	0.0	0	0.0	9,380	62.8
			Subtotal	0	0.0	0	0.0	1,344	9.0	3,166	21.2	0	0.0	9,858	66.0	90	0.6	194	1.3	284	1.9	0	0.0	0	0.0	14,936	100.0
	7/7 (7/5, 7, 9, 12, 14)	165	M	0	0.0	0	0.0	501	1.9	3,840	14.8	0	0.0	5,176	20.0	0	0.0	167	0.6	0	0.0	0	0.0	0	0.0	9,685	37.4
			F	0	0.0	0	0.0	1,670	6.5	3,506	13.5	167	0.6	10,185	39.4	167	0.6	167	0.6	334	1.3	0	0.0	0	0.0	16,196	62.6
			Subtotal	0	0.0	0	0.0	2,171	8.4	7,347	28.4	167	0.6	15,362	59.4	167	0.6	334	1.3	334	1.3	0	0.0	0	0.0	25,881	100.0

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Table 45. Age and sex of sockeye salmon from the District 5 commercial fishery (page 3 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1993 (cont.)	7/21 (7/16, 19, 21, 23, 26, 28, 30; 8/2, 4, 6, 9 13, 16, 18,23, 26, 28; 9/1, 3, 6)	168	M	111	0.6	0	0.0	333	1.8	2,864	15.5	222	1.2	4,172	22.6	772	4.2	329	1.8	2,751	14.9	218	1.2	0	0.0	11,771	63.7
			F	0	0.0	0	0.0	0	0.0	2,531	13.7	0	0.0	2,199	11.9	443	2.4	111	0.6	1,423	7.7	0	0.0	0	0.0	6,707	36.3
			Subtotal	111	0.6	0	0.0	333	1.8	5,395	29.2	222	1.2	6,371	34.5	1,216	6.6	440	2.4	4,174	22.6	218	1.2	0	0.0	18,476	100.0
	Season	469	M	111	0.2	0	0.0	1,222	2.1	8,243	13.9	222	0.4	12,888	21.7	772	1.3	496	0.8	2,841	4.8	218	0.4	0	0.0	27,012	45.6
			F	0	0.0	0	0.0	2,626	4.4	7,666	12.9	167	0.3	18,702	31.5	700	1.2	472	0.8	1,951	3.3	0	0.0	0	0.0	32,283	54.4
			Total	111	0.2	0	0.0	3,847	6.5	15,908	26.8	389	0.7	31,590	53.3	1,472	2.5	968	1.6	4,791	8.1	218	0.4	0	0.0	59,293	100.0
1994	7/4 (6/27, 30; 7/4)	164	M	0	0.0	0	0.0	554	2.4	0	0.0	140	0.6	10,245	44.5	0	0.0	140	0.6	554	2.4	0	0.0	0	0.0	11,634	50.6
			F	0	0.0	0	0.0	1,127	4.9	0	0.0	0	0.0	9,547	41.5	0	0.0	140	0.6	554	2.4	0	0.0	0	0.0	11,370	49.4
			Subtotal	0	0.0	0	0.0	1,682	7.3	0	0.0	140	0.6	19,792	86.0	0	0.0	281	1.2	1,109	4.8	0	0.0	0	0.0	23,006	100.0
	7/6 (7/6, 8, 11, 12)	140	M	0	0.0	0	0.0	649	2.1	222	0.7	0	0.0	8,621	27.9	0	0.0	649	2.1	896	2.9	0	0.0	0	0.0	11,037	35.7
			F	0	0.0	0	0.0	222	0.7	222	0.7	0	0.0	18,540	60.0	222	0.7	222	0.7	439	1.4	0	0.0	0	0.0	19,869	64.3
			Subtotal	0	0.0	0	0.0	871	2.8	445	1.4	0	0.0	27,161	87.9	222	0.7	871	2.8	1,335	4.3	0	0.0	0	0.0	30,900	100.0
	7/21 (7/14, 15, 19, 21, 23, 25, 27, 29; 8/2, 3, 5, 8, 10, 12, 15, 17, 19, 22, 24, 26, 29, 31; 9/2, 5, 7)	181	M	0	0.0	0	0.0	605	3.9	683	4.4	0	0.0	6,979	44.8	89	0.6	89	0.6	1,195	7.7	89	0.6	0	0.0	9,728	62.4
			F	0	0.0	0	0.0	511	3.3	89	0.6	0	0.0	4,049	26.0	89	0.6	0	0.0	1,119	7.2	0	0.0	0	0.0	5,856	37.6
			Subtotal	0	0.0	0	0.0	1,116	7.2	771	5.0	0	0.0	11,027	70.8	178	1.1	89	0.6	2,314	14.9	89	0.6	0	0.0	15,584	100.0
	Season	485	M	0	0.0	0	0.0	1,808	2.6	905	1.3	140	0.2	25,844	37.2	89	0.1	878	1.3	2,646	3.8	89	0.1	0	0.0	32,399	46.6
			F	0	0.0	0	0.0	1,861	2.7	311	0.4	0	0.0	32,136	46.2	311	0.4	363	0.5	2,112	3.0	0	0.0	0	0.0	37,095	53.4
			Total	0	0.0	0	0.0	3,669	5.3	1,216	1.8	140	0.2	57,980	83.4	400	0.6	1,241	1.8	4,758	6.8	89	0.1	0	0.0	69,490	100.0
1995	(6/29)	0	M																								
			F																								
			Subtotal																							1,412	
	(7/3)	0	M																								
			F																								
			Subtotal																							1,427	
	7/5 (7/5)	181	M	0	0.0	0	0.0	0	0.0	26	1.1	0	0.0	1,092	45.9	119	5.0	92	3.9	131	5.5	0	0.0	0	0.0	1,459	61.3
			F	0	0.0	0	0.0	0	0.0	66	2.8	14	0.6	736	30.9	14	0.6	40	1.7	52	2.2	0	0.0	0	0.0	921	38.7
			Subtotal	0	0.0	0	0.0	0	0.0	92	3.9	14	0.6	1,828	76.8	132	5.6	132	5.5	183	7.7	0	0.0	0	0.0	2,380	100.0
	(7/7)	0	M																								
			F																								
			Subtotal																							2,476	
	(7/8)	0	M																								
			F																								
			Subtotal																							4,362	
	(7/10)	0	M																								
			F																								
			Subtotal																							8,140	

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Table 45. Age and sex of sockeye salmon from the District 5 commercial fishery (page 4 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1995	7/14	188	M	0	0.0	0	0.0	21	0.5	116	2.7	0	0.0	1,507	35.1	251	5.9	22	0.5	365	8.5	0	0.0	0	0.0	2,282	53.2
(cont.)	(7/13 - 14)		F	0	0.0	0	0.0	0	0.0	318	7.4	0	0.0	1,347	31.4	183	4.3	46	1.1	115	2.7	0	0.0	0	0.0	2,009	46.8
			Subtotal	0	0.0	0	0.0	21	0.5	434	10.1	0	0.0	2,854	66.5	434	10.1	68	1.6	479	11.2	0	0.0	0	0.0	4,291	100.0
	(7/17 - 18)	0	M																								
			F																								
			Subtotal																							3,642	
	(7/20 - 21)	0	M																								
			F																								
			Subtotal																							2,601	
	(7/24, 26, 28, 31; 8/2, 7, 11, 14, 16, 18, 21, 25, 28, 30; 9/1)	0	M																								
			F																								
			Subtotal																							6,620	
	Season	369	M																								
			F																								
			Total																							37,351	
1996	(6/28)	0	M																								
			F																								
			Subtotal																							2,008	
	7/2	180	M	28	0.6	0	0.0	80	1.7	80	1.7	0	0.0	1,858	38.9	0	0.0	28	0.6	80	1.7	0	0.0	0	0.0	2,154	45.1
	(7/2)		F	0	0.0	0	0.0	53	1.1	53	1.1	0	0.0	2,307	48.3	53	1.1	0	0.0	158	3.3	0	0.0	0	0.0	2,623	54.9
			Subtotal	28	0.6	0	0.0	133	2.8	133	2.8	0	0.0	4,166	87.2	53	1.1	28	0.6	238	5.0	0	0.0	0	0.0	4,777	100.0
	(7/5)	0	M																								
			F																								
			Subtotal																							4,900	
	(7/8)	0	M																								
			F																								
			Subtotal																							4,366	
	(7/11)	0	M																								
			F																								
			Subtotal																							3,651	
	(7/15)	0	M																								
			F																								
			Subtotal																							3,080	
	7/18	163	M	0	0.0	0	0.0	73	3.7	108	5.5	0	0.0	577	29.4	12	0.6	12	0.6	96	4.9	0	0.0	0	0.0	878	44.8
	(7/18)		F	0	0.0	0	0.0	96	4.9	132	6.7	0	0.0	748	38.1	61	3.1	0	0.0	35	1.8	12	0.6	0	0.0	1,084	55.2
			Subtotal	0	0.0	0	0.0	169	8.6	240	12.2	0	0.0	1,325	67.5	73	3.7	12	0.6	132	6.7	12	0.6	0	0.0	1,962	100.0
	(7/25)	0	M																								
			F																								
			Subtotal																							1,678	

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Table 45. Age and sex of sockeye salmon from the District 5 commercial fishery (page 5 of 5).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	1.1 Catch	1.1 %	0.3 Catch	0.3 %	1.2 Catch	1.2 %	0.4 Catch	0.4 %	1.3 Catch	1.3 %	2.2 Catch	2.2 %	1.4 Catch	1.4 %	2.3 Catch	2.3 %	2.4 Catch	2.4 %	3.3 Catch	3.3 %	Total Catch	Total %
1996 (cont.)	(7/27)	0	M																								
			F																								
			Subtotal																							1,271	
	(7/30; 8/5, 8, 10, 12, 14, 16, 19, 21, 23, 26)	0	M																								
			F																								
			Subtotal																							3,024	
	Season	343	M																								
			F																								
			Total																							30,717	
1997	6/27 [d] (6/27, 30)	182	M	0	0.0	0	0.0	65	1.1	164	2.7	0	0.0	2,552	42.9	98	1.6	131	2.2	785	13.2	33	0.5	0	0.0	3,828	64.3
			F	0	0.0	0	0.0	0	0.0	65	1.1	0	0.0	1,603	26.9	66	1.1	196	3.3	196	3.3	0	0.0	0	0.0	2,126	35.7
			Subtotal	0	0.0	0	0.0	65	1.1	229	3.8	0	0.0	4,155	69.8	164	2.7	327	5.5	981	16.5	33	0.5	0	0.0	5,954	100.0
	7/4 [d] (7/2, 4, 7)	102	M	92	1.0	0	0.0	0	0.0	458	4.9	0	0.0	2,841	30.4	92	1.0	275	2.9	733	7.8	0	0.0	0	0.0	4,490	48.0
			F	0	0.0	0	0.0	92	1.0	183	2.0	183	2.0	2,566	27.4	91	1.0	458	4.9	1,191	12.8	92	1.0	0	0.0	4,857	52.0
			Subtotal	92	1.0	0	0.0	92	1.0	641	6.9	183	2.0	5,407	57.8	183	2.0	733	7.8	1,924	20.6	92	1.0	0	0.0	9,347	100.0
	7/11 (7/9, 11, 14)	184	M	0	0.0	0	0.0	198	2.2	889	9.8	50	0.6	1,927	21.2	148	1.6	297	3.3	593	6.5	49	0.5	0	0.0	4,150	45.7
			F	0	0.0	0	0.0	148	1.6	593	6.5	148	1.6	3,063	33.7	247	2.7	296	3.2	445	4.9	0	0.0	0	0.0	4,941	54.3
			Subtotal	0	0.0	0	0.0	346	3.8	1,482	16.3	198	2.2	4,990	54.9	395	4.3	593	6.5	1,038	11.4	49	0.5	0	0.0	9,091	100.0
	7/18 (7/16, 18, 21)	186	M	23	0.5	0	0.0	91	2.1	729	17.2	46	1.1	820	19.4	91	2.1	91	2.2	205	4.8	0	0.0	0	0.0	2,095	49.5
			F	0	0.0	0	0.0	46	1.1	478	11.3	0	0.0	1,047	24.7	46	1.1	251	5.9	273	6.5	0	0.0	0	0.0	2,140	50.5
			Subtotal	23	0.5	0	0.0	137	3.2	1,207	28.5	46	1.1	1,867	44.1	137	3.2	342	8.1	478	11.3	0	0.0	0	0.0	4,235	100.0
	7/25 (7/23, 25)	179	M	0	0.0	0	0.0	63	2.2	379	13.4	16	0.6	852	30.2	95	3.3	32	1.1	158	5.6	0	0.0	0	0.0	1,593	56.4
			F	0	0.0	0	0.0	79	2.8	410	14.5	0	0.0	473	16.7	47	1.7	110	3.9	110	3.9	0	0.0	0	0.0	1,231	43.6
			Subtotal	0	0.0	0	0.0	142	5.0	789	27.9	16	0.6	1,325	46.9	142	5.0	142	5.0	268	9.5	0	0.0	0	0.0	2,824	100.0
	Season	833	M	114	0.4	0	0.0	417	1.3	2,618	8.3	111	0.3	8,991	28.6	524	1.6	825	2.6	2,474	7.9	82	0.3	0	0.0	16,156	51.4
			F	0	0.0	0	0.0	365	1.2	1,730	5.5	331	1.1	8,753	27.8	497	1.6	1,312	4.2	2,216	7.0	92	0.3	0	0.0	15,295	48.6
			Total	114	0.4	0	0.0	782	2.5	4,348	13.8	442	1.4	17,744	56.4	1,021	3.2	2,137	6.8	4,690	14.9	174	0.6	0	0.0	31,451	100.0
	Grand Total [e]	3,402	M	1,390	0.5	95	0.0	7,258	2.6	20,276	7.4	960	0.3	92,077	33.5	4,567	1.7	3,705	1.3	12,697	4.6	625	0.2	0	0.0	143,652	52.2
			F	680	0.2	133	0.0	7,591	2.8	15,554	5.7	1,126	0.4	90,308	32.8	3,369	1.2	2,868	1.0	9,630	3.5	178	0.1	0	0.0	131,437	47.8
			Total	2,070	0.8	228	0.1	14,849	5.4	35,830	13.0	2,086	0.8	182,386	66.3	7,936	2.9	6,573	2.4	22,327	8.1	803	0.3	0	0.0	275,089	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] Sampling dates do not meet criteria for estimating commercial harvest for some or all of the strata; "Season" is not included in "Grand Total".
[d] Sex of all fish was confirmed by visual inspection of gonads.
[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 46. Mean length (mm) of sockeye salmon from the District 5 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1995[b]	7/5 (7/5)	M	Mean Length				558		588	547	611	585		
			Std. Error				38		3	6	9	8		
			Range				520- 595		535- 670	515- 575	570- 645	530- 615		
			Sample Size	0	0	0	2	0	83	9	7	10	0	0
		F	Mean Length				470	575	552	515	573	538		
			Std. Error				19	-	3	-	16	7		
			Range				420- 520	575- 575	490- 600	515- 515	545- 600	525- 550		
			Sample Size	0	0	0	5	1	56	1	3	4	0	0
	7/14 (7/13 - 14)	M	Mean Length			585	517		585	537	605	584		
			Std. Error			-	3		2	5	-	3		
			Range			585- 585	505- 530		515- 625	505- 580	605- 605	545- 625		
			Sample Size	0	0	2	10	0	132	22	2	32	0	0
		F	Mean Length				503		551	499	563	559		
			Std. Error				3		2	3	1	4		
			Range				480- 540		525- 610	485- 515	560- 565	540- 575		
			Sample Size	0	0	0	28	0	118	16	4	10	0	0
1996[b]	7/2 (7/2)	M	Mean Length	575		607	532		593		560	579		
			Std. Error	-		2	12		3		-	12		
			Range	575- 575		605- 610	510- 550		420- 640		560- 560	555- 595		
			Sample Size	1	0	3	3	0	70	0	1	3	0	0
		F	Mean Length			573	513		560	543		564		
			Std. Error			8	8		2	3		9		
			Range			565- 580	505- 520		515- 610	540- 545		550- 605		
			Sample Size	0	0	2	2	0	87	2	0	6	0	0
	7/18 (7/18)	M	Mean Length			573	537		587	560	640	588		
			Std. Error			12	7		4	-	-	13		
			Range			535- 610	510- 580		530- 645	560- 560	640- 640	535- 635		
			Sample Size	0	0	6	9	0	48	1	1	8	0	0
		F	Mean Length			551	531		557	529		565	570	
			Std. Error			7	5		3	7		13	-	
			Range			525- 585	500- 555		495- 600	505- 545		540- 585	570- 570	
			Sample Size	0	0	8	11	0	62	5	0	3	1	0
1997	6/27[c] (6/27, 30)	M	Mean Length			605	530		600	509	594	597	602	
			Std. Error			6	4		2	42	14	3	-	
			Range			599- 610	514- 540		560- 646	427- 567	561- 617	571- 621	602- 602	
			Sample Size	0	0	2	5	0	78	3	4	24	1	0
		F	Mean Length				508		566	551	582	558		
			Std. Error				6		3	14	11	4		
			Range				502- 514		518- 604	536- 565	548- 617	546- 571		
			Sample Size	0	0	0	2	0	49	2	6	6	0	0

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Table 46. Mean length (mm) of sockeye salmon from the District 5 commercial fishery (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3
1997 (cont.)	7/4 [c] (7/2, 4, 7)	M	Mean Length	558			531		583	600	614	581		
			Std. Error	-			10		5	-	7	8		
			Range	558- 558			509- 565		504- 623	600- 600	600- 625	547- 613		
			Sample Size	1	0	0	5	0	31	1	3	8	0	0
		F	Mean Length			565	467	587	552	452	581	552	590	
			Std. Error			-	7	16	5	-	11	6	-	
			Range			565- 565	460- 473	571- 603	463- 596	452- 452	550- 601	513- 586	590- 590	
			Sample Size	0	0	1	2	2	28	1	5	13	1	0
	7/11 (7/9, 11, 14)	M	Mean Length			586	514	615	593	552	593	578	580	
			Std. Error			15	10	-	4	18	12	10	-	
			Range			560- 630	390- 550	615- 615	540- 635	525- 585	565- 645	530- 630	580- 580	
			Sample Size	0	0	4	18	1	39	3	6	12	1	0
		F	Mean Length			552	510	573	564	519	586	564		
			Std. Error			13	5	12	4	10	4	7		
			Range			530- 575	480- 545	550- 585	495- 660	500- 555	575- 600	525- 590		
			Sample Size	0	0	3	12	3	62	5	6	9	0	0
	7/18 (7/16, 18, 21)	M	Mean Length	380		589	524	613	593	555	599	593		
			Std. Error	-		11	3	23	5	16	12	6		
			Range	380- 380		560- 605	480- 555	590- 635	505- 665	520- 585	565- 620	565- 625		
			Sample Size	1	0	4	32	2	36	4	4	9	0	0
		F	Mean Length			560	499		560	490	585	565		
			Std. Error			10	6		3	-	7	7		
			Range			550- 570	445- 555		500- 610	490- 490	545- 615	520- 600		
			Sample Size	0	0	2	21	0	46	2	11	12	0	0
	7/25 (7/23, 25)	M	Mean Length			593	525	630	575	525	590	583		
			Std. Error			11	5	-	3	5	25	9		
			Range			580- 625	470- 560	630- 630	525- 615	510- 545	565- 615	540- 635		
			Sample Size	0	0	4	24	1	54	6	2	10	0	0
		F	Mean Length			536	499		545	503	565	538		
			Std. Error			6	6		4	6	7	4		
			Range			520- 555	435- 550		495- 580	495- 515	535- 585	520- 555		
			Sample Size	0	0	5	26	0	30	3	7	7	0	0
	Season	M	Mean Length	523		591	522	616	590	548	600	587	589	
			Range	380- 558		560- 630	390- 565	590- 635	504- 665	427- 600	561- 645	530- 635	580- 602	
			Sample Size	2	0	14	84	4	238	17	19	63	2	0
		F	Mean Length			553	500	581	559	507	582	556	590	
			Range			520- 575	435- 555	550- 603	463- 660	452- 565	535- 617	513- 600	590- 590	
			Sample Size	0	0	11	63	5	215	13	35	47	1	0

a "Season" mean lengths are weighted by the commercial harvest in each stratum.

b Sampling dates do not meet criteria for estimating commercial harvest for some or all of the strata; "Season" summary is not included.

c Sex of all fish was confirmed by visual inspection of gonads.

Chum Salmon

Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1971[c]	7/13, 15, 16 - 19, 21	264	M		0.0		55.6		22.3		0.8		78.7
			F		0.0		15.2		6.1		0.0		21.3
			Total		0.0		70.8		28.4		0.8		100.0
1972[c]	7/29 - 8/5	150	M		1.3		20.7		40.7		0.7		63.4
			F		1.3		18.0		17.3		0.0		36.6
			Total		2.6		38.7		58.0		0.7		100.0
1973[c]	8/2 - 3	47	M		0.0		31.9		14.9		2.1		48.9
			F		2.1		38.4		10.6		0.0		51.1
			Total		2.1		70.3		25.5		2.1		100.0
1976	6/29 - 7/7	76	M	22	1.3	394	23.7	920	55.3	0	0.0	1,336	80.3
	(6/23 - 7/7)		F	0	0.0	153	9.2	175	10.5	0	0.0	328	19.7
			Subtotal	22	1.3	547	32.9	1,095	65.8	0	0.0	1,664	100.0
	7/8 - 16	79	M	0	0.0	1,370	30.4	2,227	49.4	113	2.5	3,710	82.3
	(7/8 - 18)		F	0	0.0	514	11.4	284	6.3	0	0.0	798	17.7
			Subtotal	0	0.0	1,884	41.8	2,511	55.7	113	2.5	4,508	100.0
	7/19 - 22,	64	M	0	0.0	366	18.8	1,185	60.9	0	0.0	1,550	79.7
	7/24 - 30		F	0	0.0	274	14.1	123	6.3	0	0.0	395	20.3
	(7/19 - 8/12)		Subtotal	0	0.0	640	32.9	1,307	67.2	0	0.0	1,945	100.0
	Season	219	M	22	0.3	2,130	26.2	4,332	53.4	113	1.4	6,596	81.3
			F	0	0.0	941	11.6	581	7.2	0	0.0	1,521	18.7
			Total	22	0.3	3,072	37.8	4,913	60.5	113	1.4	8,117	100.0
1980	7/3 - 6	37	M	0	0.0	980	83.8	63	5.4	0	0.0	1,043	89.2
	(7/2 - 6)		F	0	0.0	95	8.1	32	2.7	0	0.0	126	10.8
			Subtotal	0	0.0	1,074	91.9	95	8.1	0	0.0	1,169	100.0
	7/7 - 10	46	M	0	0.0	382	80.4	52	10.9	0	0.0	434	91.3
	(7/7 - 10)		F	0	0.0	31	6.5	10	2.2	0	0.0	41	8.7
			Subtotal	0	0.0	413	86.9	62	13.1	0	0.0	475	100.0
	Season	83	M	0	0.0	1,362	82.8	115	7.0	0	0.0	1,476	89.8
			F	0	0.0	126	7.6	42	2.6	0	0.0	168	10.2
			Total	0	0.0	1,487	90.5	157	9.5	0	0.0	1,644	100.0
1981	6/29; 7/4, 6	108	M	0	0.0	1,144	2.8	21,570	52.8	368	0.9	23,082	56.5
	(6/15 - 7/13)		F	0	0.0	3,391	8.3	14,380	35.2	0	0.0	17,771	43.5
			Subtotal	0	0.0	4,535	11.1	35,951	88.0	368	0.9	40,853	100.0
	7/14, 20, 22	51	M	0	0.0	2,208	13.7	8,847	54.9	0	0.0	11,055	68.6
	27- 28, 30		F	0	0.0	1,579	9.8	3,481	21.6	0	0.0	5,060	31.4
	(7/14 - 8/5)		Subtotal	0	0.0	3,787	23.5	12,328	76.5	0	0.0	16,115	100.0
	8/6	32	M	0	0.0	211	53.1	99	25.0	0	0.0	310	78.1
	(8/6 - 8/27)		F	0	0.0	75	18.8	12	3.1	0	0.0	87	21.9
			Subtotal	0	0.0	285	71.9	112	28.1	0	0.0	397	100.0
	Season	191	M	0	0.0	3,562	6.2	30,517	53.2	368	0.6	34,447	60.0
			F	0	0.0	5,045	8.8	17,873	31.2	0	0.0	22,918	40.0
			Total	0	0.0	8,607	15.0	48,390	84.4	368	0.6	57,365	100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1982	7/10 - 13	54	M	0	0.0	9,621	24.1	9,621	24.1	0	0.0	19,202	48.1
	(6/17 - 7/13)		F	0	0.0	10,339	25.9	10,339	25.9	0	0.0	20,718	51.9
			Subtotal	0	0.0	19,960	50.0	19,960	50.0	0	0.0	39,920	100.0
	7/14 - 25	113	M	0	0.0	8,028	38.9	3,281	15.9	0	0.0	11,330	54.9
	(7/14 - 7/25)		F	0	0.0	7,677	37.2	1,651	8.0	0	0.0	9,307	45.1
			Subtotal	0	0.0	15,705	76.1	4,932	23.9	0	0.0	20,637	100.0
	7/26 - 8/4	92	M	0	0.0	1,721	48.9	574	16.3	0	0.0	2,295	65.2
	(7/26 - 8/22)		F	0	0.0	996	28.3	190	5.4	39	1.1	1,225	34.8
			Subtotal	0	0.0	2,717	77.2	764	21.7	39	1.1	3,520	100.0
	Season	259	M	0	0.0	19,370	30.2	13,476	21.0	0	0.0	32,826	51.2
			F	0	0.0	19,012	29.7	12,180	19.0	39	0.1	31,251	48.8
			Total	0	0.0	38,382	59.9	25,656	40.0	39	0.1	64,077	100.0
1983 [d]	6/24 - 27	95	M		0.0		6.3		56.8		2.1		65.2
			F		0.0		1.1		31.6		2.1		34.8
			Subtotal		0.0		7.4		88.4		4.2		100.0
	6/28 - 7/1	111	M		0.0		7.2		60.4		0.9		68.5
			F		0.0		1.8		29.7		0.0		31.5
			Subtotal		0.0		9.0		90.1		0.9		100.0
	7/2, 6 - 8	113	M		0.0		4.4		48.7		1.8		54.9
			F		0.0		8.8		35.4		0.9		45.1
			Subtotal		0.0		13.2		84.1		2.7		100.0
	7/9 - 12	56	M		0.0		3.6		41.1		14.3		59.0
			F		0.0		7.1		32.1		1.8		41.0
			Subtotal		0.0		10.7		73.2		16.1		100.0
	8/13 - 16	83	M		0.0		24.1		18.1		0.0		42.2
			F		1.2		38.5		18.1		0.0		57.8
			Subtotal		1.2		62.6		36.2		0.0		100.0
	8/17 - 9/13	26	M		0.0		26.9		19.2		0.0		46.1
			F		3.8		38.6		11.5		0.0		53.9
			Subtotal		3.8		65.5		30.7		0.0		100.0
	Season	484	M		0.0		9.9		45.3		2.7		57.9
			F		0.4		12.2		28.7		0.8		42.1
			Total		0.4		22.1		74.0		3.5		100.0
1984	6/19, 21, 23-25	52	M	0	0.0	10	15.4	28	42.3	5	7.7	43	65.4
	(6/19 - 25)		F	0	0.0	4	5.8	17	25.0	3	3.8	23	34.6
			Subtotal	0	0.0	14	21.2	44	67.3	8	11.5	66	100.0
	6/26 - 29	116	M	0	0.0	89	25.9	110	31.9	30	8.6	229	66.4
	(6/26 - 29)		F	0	0.0	48	13.8	53	15.5	15	4.3	116	33.6
			Subtotal	0	0.0	137	39.7	164	47.4	45	12.9	345	100.0
	6/30 - 7/3	115	M	0	0.0	1,186	42.6	604	21.7	120	4.3	1,913	68.7
	(6/30 - 7/3)		F	0	0.0	460	16.5	315	11.3	97	3.5	872	31.3
			Subtotal	0	0.0	1,646	59.1	919	33.0	217	7.8	2,785	100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1984 (cont.)	7/4 - 7 (7/4 - 7)	112	M	0	0.0	2,656	46.4	664	11.6	103	1.8	3,423	59.8
			F	0	0.0	1,328	23.2	922	16.1	52	0.9	2,301	40.2
			Subtotal	0	0.0	3,984	69.6	1,586	27.7	155	2.7	5,724	100.0
	7/8 - 11 (7/8 - 11)	116	M	0	0.0	3,261	51.7	763	12.1	0	0.0	4,024	63.8
			F	0	0.0	1,634	25.9	599	9.5	57	0.9	2,283	36.2
			Subtotal	0	0.0	4,894	77.6	1,362	21.6	57	0.9	6,307	100.0
	7/12 - 15 (7/12 - 15)	117	M	0	0.0	4,384	45.3	1,074	11.1	0	0.0	5,458	56.4
			F	0	0.0	3,474	35.9	745	7.7	0	0.0	4,220	43.6
			Subtotal	0	0.0	7,859	81.2	1,819	18.8	0	0.0	9,678	100.0
	7/16 - 19 (7/16 - 19)	114	M	0	0.0	3,527	54.4	454	7.0	0	0.0	3,981	61.4
			F	0	0.0	2,334	36.0	169	2.6	0	0.0	2,502	38.6
			Subtotal	0	0.0	5,861	90.4	622	9.6	0	0.0	6,483	100.0
	7/20 - 23 (7/20 - 23)	112	M	0	0.0	3,943	66.1	376	6.3	0	0.0	4,313	72.3
			F	0	0.0	1,491	25.0	107	1.8	54	0.9	1,652	27.7
			Subtotal	0	0.0	5,434	91.1	483	8.1	54	0.9	5,965	100.0
	7/24 - 27 (7/24 - 27)	113	M	0	0.0	1,259	63.7	105	5.3	0	0.0	1,363	69.0
			F	0	0.0	595	30.1	18	0.9	0	0.0	613	31.0
			Subtotal	0	0.0	1,853	93.8	123	6.2	0	0.0	1,976	100.0
	7/28 - 31 (7/28 - 31)	111	M	0	0.0	954	77.5	33	2.7	0	0.0	987	80.2
			F	0	0.0	233	18.9	11	0.9	0	0.0	244	19.8
			Subtotal	0	0.0	1,187	96.4	44	3.6	0	0.0	1,231	100.0
	8/1 - 4 (8/1 - 4)	117	M	0	0.0	546	69.2	27	3.4	0	0.0	573	72.6
			F	0	0.0	209	26.5	7	0.9	0	0.0	216	27.4
			Subtotal	0	0.0	755	95.7	34	4.3	0	0.0	789	100.0
	8/6- 11, 14- 15 (8/5 - 18)	57	M	0	0.0	102	75.4	2	1.8	0	0.0	104	77.2
			F	0	0.0	28	21.1	2	1.8	0	0.0	31	22.8
			Subtotal	0	0.0	130	96.5	5	3.6	0	0.0	135	100.0
	Season	1,252	M	0	0.0	21,917	52.8	4,241	10.2	258	0.6	26,412	63.7
			F	0	0.0	11,837	28.5	2,965	7.1	277	0.7	15,072	36.3
			Total	0	0.0	33,754	81.4	7,205	17.4	534	1.3	41,484	100.0
1985	7/7 - 10 (6/23 - 7/10)	116	M	0	0.0	528	14.7	1,515	42.2	0	0.0	2,043	56.9
			F	0	0.0	187	5.2	1,361	37.9	0	0.0	1,547	43.1
			Subtotal	0	0.0	714	19.9	2,876	80.1	0	0.0	3,590	100.0
	7/11 - 14 (7/11 - 14)	116	M	0	0.0	330	15.5	953	44.8	0	0.0	1,283	60.3
			F	0	0.0	183	8.6	659	31.0	0	0.0	844	39.7
			Subtotal	0	0.0	513	24.1	1,612	75.8	0	0.0	2,127	100.0
	7/15 - 18 (7/15 - 18)	112	M	0	0.0	370	13.4	1,210	43.8	0	0.0	1,578	57.1
			F	0	0.0	296	10.7	887	32.1	0	0.0	1,185	42.9
			Subtotal	0	0.0	666	24.1	2,097	75.9	0	0.0	2,763	100.0
	7/19 - 22 (7/19 - 22)	112	M	19	0.9	408	19.6	744	35.7	56	2.7	1,227	58.9
			F	0	0.0	317	15.2	540	25.9	0	0.0	857	41.1
			Subtotal	19	0.9	725	34.8	1,284	61.6	56	2.7	2,084	100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 4 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1985 (cont.)	7/23 - 27 (7/23 - 27)	142	M	19	0.7	656	24.6	1,202	45.1	19	0.7	1,895	71.1
			F	0	0.0	264	9.9	506	19.0	0	0.0	770	28.9
			Subtotal	19	0.7	919	34.5	1,708	64.1	19	0.7	2,665	100.0
	7/29 - 8/1 (7/29 - 8/1)	106	M	0	0.0	123	14.2	286	33.0	0	0.0	409	47.2
			F	0	0.0	212	24.5	245	28.3	0	0.0	458	52.8
			Subtotal	0	0.0	336	38.7	531	61.3	0	0.0	867	100.0
	8/2 - 3, 5 - 6 (8/2 - 6)	80	M	0	0.0	71	16.3	98	22.5	0	0.0	170	38.8
			F	0	0.0	82	18.8	185	42.4	0	0.0	267	61.2
			Subtotal	0	0.0	153	35.1	284	64.9	0	0.0	437	100.0
	8/7 - 9 (8/7 - 9)	46	M	0	0.0	11	6.5	57	32.6	0	0.0	68	39.1
			F	0	0.0	42	23.9	64	37.0	0	0.0	106	60.9
			Subtotal	0	0.0	53	30.4	121	69.6	0	0.0	174	100.0
	8/10, 12 - 15 (8/10 - 28)	44	M	0	0.0	7	2.3	75	25.0	0	0.0	81	27.3
			F	0	0.0	102	34.1	115	38.6	0	0.0	217	72.7
			Subtotal	0	0.0	108	36.4	190	63.6	0	0.0	298	100.0
	Season	874	M	37	0.2	2,504	16.7	6,140	40.9	75	0.5	8,753	58.3
			F	0	0.0	1,684	11.2	4,563	30.4	0	0.0	6,252	41.7
			Total	37	0.2	4,188	27.9	10,703	71.3	75	0.5	15,005	100.0
1986	6/29 - 7/3 (6/23 - 7/3)	109	M	0	0.0	270	35.8	187	24.8	14	1.8	470	62.4
			F	0	0.0	180	23.9	90	11.9	14	1.8	283	37.6
			Subtotal	0	0.0	450	59.7	276	36.7	27	3.6	753	100.0
	7/4 - 7 (7/4 - 7)	113	M	0	0.0	822	55.3	339	22.8	13	0.9	1,176	79.1
			F	0	0.0	222	14.9	79	5.3	13	0.9	311	20.9
			Subtotal	0	0.0	1,044	70.2	418	28.1	27	1.8	1,487	100.0
	7/8 -11 (7/8 - 11)	117	M	0	0.0	1,866	41.9	1,065	23.9	76	1.7	3,006	67.5
			F	0	0.0	913	20.5	534	12.0	0	0.0	1,448	32.5
			Subtotal	0	0.0	2,779	62.4	1,599	35.9	76	1.7	4,454	100.0
	7/12 - 15 (7/12 - 15)	112	M	35	0.9	1,617	42.0	308	8.0	104	2.7	2,064	53.6
			F	35	0.9	1,375	35.7	343	8.9	35	0.9	1,787	46.4
			Subtotal	69	1.8	2,992	77.7	651	16.9	139	3.6	3,851	100.0
	7/16 - 19 (7/16 - 8/29)	115	M	0	0.0	1,767	42.6	398	9.6	37	0.9	2,198	53.0
			F	0	0.0	1,481	35.7	431	10.4	37	0.9	1,950	47.0
			Subtotal	0	0.0	3,248	78.3	830	20.0	75	1.8	4,148	100.0
	Season	566	M	35	0.2	6,343	43.2	2,297	15.6	244	1.7	8,915	60.7
			F	35	0.2	4,170	28.4	1,477	10.1	99	0.7	5,778	39.3
			Total	69	0.5	10,513	71.5	3,774	25.7	343	2.3	14,693	100.0
1987 [d]	7/15 - 16	57	M		0.0		3.5		54.4		7.0		64.9
			F		0.0		1.8		31.6		1.8		35.1
			Subtotal		0.0		5.3		86.0		8.8		100.0
	8/10 - 11	51	M		0.0		25.5		31.4		5.9		62.7
			F		0.0		11.8		25.5		0.0		37.3
			Subtotal		0.0		37.3		56.9		5.9		100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 5 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1987 (cont.)	8/12 - 14	52	M		0.0		9.6		21.2		5.8		36.5
			F		0.0		17.3		42.3		3.8		63.5
			Subtotal		0.0		26.9		63.5		9.6		100.0
	Season	160	M		0.0		6.3		46.9		6.7		36.5
			F		0.0		5.3		32.9		2.0		63.5
			Total		0.0		11.6		79.8		8.7		100.0
1988			No data is available for the 1988 season.										
1989 [d]	7/7 - 14	147	M		0.0		10.2		57.8		2.0		70.1
			F		0.0		9.5		19.0		1.4		29.9
			Total		0.0		19.7		76.8		3.4	39,548	100.0
1990 [e]	6/30; 7/1 - 7 (6/18 - 7/7)	155	M	0	0.0	3,410	42.6	2,321	29.0	152	1.9	5,884	73.5
			F	0	0.0	1,601	20.0	520	6.5	0	0.0	2,121	26.5
			Subtotal	0	0.0	5,011	62.6	2,842	35.5	152	1.9	8,005	100.0
	7/8 - 14 (7/8 - 14)	135	M	0	0.0	5,030	57.0	1,765	20.0	0	0.0	6,794	77.0
			F	0	0.0	1,500	17.0	521	5.9	0	0.0	2,030	23.0
			Subtotal	0	0.0	6,530	74.0	2,285	25.9	0	0.0	8,824	100.0
	7/15- 18, 20- 2 (7/15 - 8/29)	92	M	0	0.0	7,780	78.3	755	7.6	109	1.1	8,644	87.0
			F	0	0.0	1,083	10.9	219	2.2	0	0.0	1,292	13.0
			Subtotal	0	0.0	8,863	89.2	974	9.8	0	0.0	9,936	100.0
	Season	382	M	0	0.0	16,220	60.6	4,841	18.1	261	1.0	21,322	79.7
			F	0	0.0	4,184	15.6	1,260	4.7	0	0.0	5,443	20.3
			Total	0	0.0	20,404	76.2	6,101	22.8	152	0.6	26,765	100.0
1991	7/6 - 10 (6/23 - 7/10)	78	M	47	1.3	1,026	28.2	2,099	57.7	0	0.0	3,172	87.2
			F	0	0.0	233	6.4	233	6.4	0	0.0	466	12.8
			Subtotal	47	1.3	1,259	34.6	2,332	64.1	0	0.0	3,638	100.0
	7/11 - 14 (7/11 - 14)	69	M	58	1.4	1,854	44.9	1,735	42.0	0	0.0	3,651	88.4
			F	0	0.0	359	8.7	120	2.9	0	0.0	479	11.6
			Subtotal	58	1.4	2,214	53.6	1,854	44.9	0	0.0	4,130	100.0
	7/14 - 18 (7/14 - 18)	63	M	0	0.0	2,086	52.4	1,262	31.7	0	0.0	3,347	84.1
			F	0	0.0	505	12.7	127	3.2	0	0.0	633	15.9
			Subtotal	0	0.0	2,591	65.1	1,389	34.9	0	0.0	3,980	100.0
	7/19 - 23 (7/19 - 8/29)	83	M	0	0.0	6,295	50.6	3,894	31.3	0	0.0	10,188	81.9
			F	0	0.0	1,655	13.3	597	4.8	0	0.0	2,252	18.1
			Subtotal	0	0.0	7,949	63.9	4,491	36.1	0	0.0	12,440	100.0
	Season	293	M	105	0.4	11,260	46.6	8,989	37.2	0	0.0	20,359	84.2
			F	0	0.0	2,752	11.4	1,077	4.5	0	0.0	3,829	15.8
			Total	105	0.4	14,013	57.9	10,066	41.6	0	0.0	24,186	100.0
1992	7/2 - 4 (6/17 - 7/9)	176	M	0	0.0	2,511	16.5	7,961	52.3	91	0.6	10,548	69.3
			F	0	0.0	1,644	10.8	2,938	19.3	91	0.6	4,673	30.7
			Subtotal	0	0.0	4,155	27.3	10,898	71.6	183	1.2	15,221	100.0
	7/15 - 17 (7/10 - 8/21)	186	M	604	3.2	6,798	36.0	4,778	25.3	94	0.5	12,293	65.1
			F	302	1.6	3,663	19.4	2,644	14.0	0	0.0	6,591	34.9
			Subtotal	906	4.8	10,462	55.4	7,421	39.3	94	0.5	18,884	100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 6 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1992 (cont.)	Season	362	M	604	1.8	9,310	27.3	12,738	37.4	186	0.5	22,842	67.0
			F	302	0.9	5,307	15.6	5,581	16.4	91	0.3	11,263	33.0
			Total	906	2.7	14,617	42.9	18,320	53.7	277	0.8	34,105	100.0
1993	7/8 - 10 (6/17 - 7/14)	180	M	0	0.0	3,047	17.8	9,125	53.3	856	5.0	13,045	76.2
			F	0	0.0	1,044	6.1	2,568	15.0	479	2.8	4,075	23.8
			Subtotal	0	0.0	4,092	23.9	11,693	68.3	1,335	7.8	17,120	100.0
	7/20 - 24 (7/15 - 8/20)	181	M	0	0.0	5,956	40.3	6,784	45.9	251	1.7	12,976	87.8
			F	0	0.0	813	5.5	975	6.6	0	0.0	1,803	12.2
			Subtotal	0	0.0	6,769	45.8	7,759	52.5	251	1.7	14,779	100.0
	Season	361	M	0	0.0	9,003	28.2	15,909	49.9	1,107	3.5	26,021	81.6
			F	0	0.0	1,857	5.8	3,543	11.1	479	1.5	5,878	18.4
			Total	0	0.0	10,860	34.0	19,452	61.0	1,587	5.0	31,899	100.0
1994[f]	7/8 - 9	125	M		0.0		26.4		45.6		4.8		76.8
			F		0.0		10.4		12.8		0.0		23.2
			Total		0.0		36.8		58.4		4.8	52,208	100.0
1995	7/4 - 5 (7/2 - 6)	140	M	0	0.0	1,607	27.9	2 921	50.7	121	2.1	4,649	80.7
			F	0	0.0	495	8.6	616	10.7	0	0.0	1,112	19.3
			Subtotal	0	0.0	2,103	36.5	3,537	61.4	121	2.1	5,761	100.0
	7/9 - 10 (7/7 - 13)	126	M	70	0.8	2,570	29.4	5,341	61.1	0	0.0	7,981	91.3
			F	0	0.0	140	1.6	621	7.1	0	0.0	761	8.7
			Subtotal	70	0.8	2,710	31.0	5,962	68.2	0	0.0	8,742	100.0
	7/16 - 17 (7/14 - 18)	137	M	128	2.2	2,636	45.3	2,164	37.2	0	0.0	4,928	84.7
			F	0	0.0	553	9.5	337	5.8	0	0.0	890	15.3
			Subtotal	128	2.2	3,188	54.8	2,502	43.0	0	0.0	5,818	100.0
	7/20 - 21 (7/19 - 24)	131	M	0	0.0	2,866	52.7	1,828	33.6	125	2.3	4,819	88.6
			F	0	0.0	413	7.6	207	3.8	0	0.0	620	11.4
			Subtotal	0	0.0	3,280	60.3	2,034	37.4	125	2.3	5,439	100.0
	7/27 - 28 (7/25 - 31)	128	M	88	3.9	1,272	56.3	635	28.1	0	0.0	1,996	88.3
			F	18	0.8	142	6.3	106	4.7	0	0.0	266	11.8
			Subtotal	106	4.7	1,414	62.5	742	32.8	0	0.0	2,261	100.0
	8/2 - 3 (8/1 - 5)	110	M	41	5.5	361	48.2	211	28.2	0	0.0	613	81.9
			F	13	1.8	109	14.5	13	1.8	0	0.0	136	18.1
			Subtotal	55	7.3	470	62.7	225	30.0	0	0.0	749	100.0
	8/6, 8, 10 (8/6 - 9/3)	76	M	26	7.9	139	42.1	70	21.1	0	0.0	235	71.1
			F	26	7.9	52	15.8	17	5.3	0	0.0	95	28.9
			Subtotal	52	15.8	191	57.9	87	26.3	0	0.0	330	100.0
	Season	848	M	353	1.2	11,451	39.4	13,170	45.3	246	0.8	25,221	86.7
			F	58	0.2	1,904	6.5	1,918	6.6	0	0.0	3,880	13.3
			Total	411	1.4	13,355	45.9	15,088	51.8	246	0.8	29,100	100.0
1996	7/2 (6/19 - 7/5)	136	M	103	0.7	6,208	44.1	5,691	40.4	414	2.9	12,416	88.2
			F	310	2.2	1,035	7.4	310	2.2	0	0.0	1,656	11.8
			Subtotal	414	2.9	7,243	51.5	6,001	42.6	414	2.9	14,072	100.0
	7/8- 9 (7/6-7/11)	122	M	238	1.6	8,326	57.4	3,449	23.8	357	2.5	12,370	85.2
			F	0	0.0	1,546	10.7	595	4.1	0	0.0	2,141	14.8
			Subtotal	238	1.6	9,872	68.0	4,044	27.9	357	2.5	14,511	100.0

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Table 47. Age and sex of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 7 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1996 (cont.)	7/13 - 14 (7/12 - 17)	151	M	0	0.0	6,842	60.9	2,008	17.9	0	0.0	8,850	78.8
			F	74	0.7	1,636	14.6	669	6.0	0	0.0	2,380	21.2
			Subtotal	74	0.7	8,478	75.5	2,677	23.8	0	0.0	11,230	100.0
	7/21 - 22 (7/18 - 24)	149	M	74	1.3	3,823	69.1	779	14.1	0	0.0	4,676	84.6
			F	0	0.0	668	12.1	186	3.4	0	0.0	854	15.4
			Subtotal	74	1.3	4,491	81.2	965	17.4	0	0.0	5,530	100.0
	7/26, 28 - 29 (7/25 - 31)	149	M	28	1.3	1,651	77.9	142	6.7	0	0.0	1,822	85.9
			F	14	0.7	256	12.1	28	1.3	0	0.0	299	14.1
			Subtotal	43	2.0	1,907	89.9	171	8.1	0	0.0	2,121	100.0
	8/3 - 7 (8/1 - 9/13)	120	M	17	1.7	773	75.0	77	7.5	9	0.8	876	85.0
			F	0	0.0	129	12.5	17	1.7	9	0.8	155	15.0
			Subtotal	17	1.7	901	87.5	94	9.2	17	1.7	1,030	100.0
	Season	827	M	461	1.0	27,623	57.0	12,147	25.0	779	1.6	41,011	84.6
			F	399	0.8	5,270	10.9	1,806	3.7	9	0.0	7,483	15.4
			Total	860	1.8	32,893	67.8	13,953	28.8	788	1.6	48,494	100.0
1997	7/3 - 6 (6/22 - 7/7)	167	M	0	0.0	478	19.2	1,836	73.6	15	0.6	2,329	93.4
			F	0	0.0	15	0.6	149	6.0	0	0.0	164	6.6
			Subtotal	0	0.0	493	19.8	1,985	79.6	15	0.6	2,493	100.0
	7/10 - 13 (7/8 - 15)	182	M	12	0.5	778	34.6	1,333	59.3	25	1.1	2,148	95.6
			F	0	0.0	49	2.2	50	2.2	0	0.0	99	4.4
			Subtotal	12	0.5	827	36.8	1,383	61.5	25	1.1	2,247	100.0
	7/18 - 22 (7/16 - 23)	189	M	10	0.5	1,083	56.6	759	39.7	0	0.0	1,851	96.8
			F	0	0.0	20	1.1	40	2.1	0	0.0	61	3.2
			Subtotal	10	0.5	1,103	57.7	799	41.8	0	0.0	1,912	100.0
	7/26, 29 (7/24 - 31)	68	M	11	1.5	503	64.7	251	32.4	11	1.5	777	100.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
			Subtotal	11	1.5	503	64.7	251	32.4	11	1.5	777	100.0
	8/3 - 5 (8/1 - 9/10)	35	M	0	0.0	479	94.3	29	5.7	0	0.0	508	100.0
			F	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
			Subtotal	0	0.0	479	94.3	29	5.7	0	0.0	508	100.0
	Season	641	M	34	0.4	3,320	41.8	4,209	53.0	51	0.6	7,613	95.9
			F	0	0.0	84	1.1	239	3.0	0	0.0	324	4.1
			Total	34	0.4	3,404	42.9	4,448	56.0	51	0.6	7,937	100.0
	Grand Total [g]	7,158	M	1,652	0.4	145,375	35.9	133,119	32.9	3,688	0.9	283,815	70.1
			F	793	0.2	64,173	15.9	55,106	13.6	994	0.2	121,058	29.9
			Total	2,445	0.6	209,548	51.8	188,226	46.5	4,572	1.1	404,873	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

c Kogrukluk River escapement was monitored with a counting tower; samples were collected with a beach seine.

d The weir washed out in 1983, 1987 and 1989; these years are excluded from the "Grand Total".

e All 1990 Kogrukluk chum salmon scales need to be re-aged due to potential aging errors.

f Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

g The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums. Years excluded are 1971 - 1973, 1983, 1987, 1989, and 1994.

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1971 [bc]	7/13, 15, 16 - 19, 21	M	Mean Length		661	663	668
			Std. Error		3	5	8
			Range		557- 778	568- 740	660- 675
			Sample Size	0	147	59	2
		F	Mean Length		614	614	
			Std. Error		4	5	
			Range		560- 678	580- 650	
			Sample Size	0	40	16	0
1972 [b]	7/29 - 8/5	M	Mean Length	553	596	614	675
			Std. Error	14	4	3	-
			Range	539- 567	555- 644	535- 674	675- 675
			Sample Size	2	31	61	1
		F	Mean Length	553	547	562	
			Std. Error	19	4	4	
			Range	534- 572	512- 590	529- 610	
			Sample Size	2	27	26	0
1973 [b]	8/2 - 3	M	Mean Length		582	593	630
			Std. Error		7	9	-
			Range		548- 637	548- 612	630- 630
			Sample Size	0	15	7	1
		F	Mean Length	495	542	565	
			Std. Error	-	4	7	
			Range	495- 495	514- 563	547- 583	
			Sample Size	1	18	5	0
1976	6/29 - 7/7 (6/23 - 7/7)	M	Mean Length	641	582	609	
			Std. Error	-	10	6	
			Range	641- 641	503- 670	525- 692	
			Sample Size	1	18	42	0
		F	Mean Length		574	585	
			Std. Error		9	8	
			Range		542- 612	550- 604	
			Sample Size	0	7	8	0
	7/8 - 16 (7/8 - 18)	M	Mean Length		601	616	678
			Std. Error		5	5	12
			Range		536- 651	503- 660	666- 690
			Sample Size	0	24	39	2
		F	Mean Length		574	637	
			Std. Error		6	10	
			Range		542- 602	619- 673	
			Sample Size	0	9	5	0

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1976 (cont.)	7/19 - 22, 7/24 - 30 (7/19 - 8/12)	M	Mean Length		564	602	
			Std. Error		11	5	
			Range		495- 642	531- 686	
			Sample Size	0	12	39	0
		F	Mean Length		555	580	
			Std. Error		7	17	
			Range		528- 582	551- 612	
			Sample Size	0	9	4	0
	Season	M	Mean Length	641	591	610	678
			Range	641- 641	495- 670	503- 692	666- 690
			Sample Size	1	54	120	2
		F	Mean Length		569	609	
			Range		528- 612	550- 673	
			Sample Size	0	25	17	0
1980	7/3 - 6 (7/2 - 6)	M	Mean Length		565	634	
			Std. Error		6	29	
			Range		492- 646	605- 663	
			Sample Size	0	31	2	0
		F	Mean Length		570	574	
			Std. Error		8	-	
			Range		577- 584	574- 574	
			Sample Size	0	3	1	0
	7/7 - 10 (7/7 - 10)	M	Mean Length		574	594	
			Std. Error		6	9	
			Range		512- 682	568- 620	
			Sample size	0	37	5	0
		F	Mean Length		550	571	
			Std. Error		9	-	
			Range		541- 567	571- 571	
			Sample size	0	3	1	0
	Season	M	Mean Length		568	616	
			Range		492 -682	568- 663	
			Sample Size	0	68	7	0
		F	Mean Length		565	573	
			Range		541- 584	571- 574	
			Sample Size	0	6	2	0

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1981	6/29; 7/4, 6 (6/15 - 7/13)	M	Mean Length		599	615	600
			Std. Error		11	3	-
			Range		579- 618	568- 675	600- 600
			Sample Size	0	3	57	1
		F	Mean Length		547	602	
			Std. Error		9	5	
			Range		510- 588	524- 689	
			Sample Size	0	9	38	0
	7/14, 20, 22 27- 28, 30 (7/14 - 8/5)	M	Mean Length		590	618	
			Std. Error		17	5	
			Range		550- 685	560- 674	
			Sample Size	0	7	28	0
		F	Mean Length		558	583	
			Std. Error		10	6	
			Range		531- 585	557- 610	
			Sample Size	0	5	11	0
	8/6 (8/6 - 8/27)	M	Mean Length		568	587	
			Std. Error		5	9	
			Range		526- 597	554- 625	
			Sample Size	0	17	8	0
		F	Mean Length		558	572	
			Std. Error		14	-	
			Range		498- 599	572- 572	
			Sample Size	0	6	1	0
	Season	M	Mean Length		592	616	600
			Range		526- 685	554- 675	600- 600
			Sample Size	0	27	93	1
		F	Mean Length		551	598	
			Range		498- 599	524- 689	
			Sample Size	0	20	50	0
1982	7/10 - 13 (6/17 - 7/13)	M	Mean Length		577	601	
			Std. Error		6	4	
			Range		543- 605	576- 632	
			Sample Size	0	13	13	0
		F	Mean Length		561	577	
			Std. Error		4	5	
			Range		534- 594	543- 602	
			Sample Size	0	14	14	0

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 4 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1982 (cont.)	7/14 - 25 (7/14 - 7/25)	M	Mean Length		579	602	
			Std. Error		3	6	
			Range		521- 620	554- 661	
			Sample Size	0	44	18	0
		F	Mean Length		557	586	
			Std. Error		4	6	
			Range		522- 606	562- 613	
			Sample Size	0	42	9	0
	7/26 - 8/4 (7/26 - 8/22)	M	Mean Length		576	603	
			Std. Error		4	6	
			Range		522- 631	569- 639	
			Sample Size	0	44	15	0
		F	Mean Length		572	577	645
			Std. Error		6	7	-
			Range		509- 624	561- 599	645- 645
			Sample Size	0	26	5	1
	Season	M	Mean Length		578	602	
			Range		521- 631	554- 661	
			Sample Size	0	101	46	0
		F	Mean Length		560	578	645
			Range		509- 624	543- 613	645- 645
			Sample Size	0	82	28	1
1983 [d]	6/24 - 27	M	Mean Length		598	617	650
			Std. Error		8	4	14
			Range		575- 632	560- 676	636- 664
			Sample size	0	6	54	2
		F	Mean Length		590	593	570
			Std. Error		-	5	21
			Range		590- 590	521- 675	549- 590
			Sample size	0	1	30	2
	6/28 - 7/1	M	Mean Length		568	614	612
			Std. Error		8	4	0
			Range		545- 614	512- 682	612- 612
			Sample Size	0	8	67	1
		F	Mean Length		511	589	
			Std. Error		-	4	
			Range		511- 511	533- 635	
			Sample Size	0	2	33	0

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 5 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1983 (cont.)	7/2, 6 - 8	M	Mean Length		588	615	651
			Std. Error		11	5	15
			Range		555- 623	533- 699	636- 665
			Sample Size	0	5	55	2
		F	Mean Length		559	571	604
			Std. Error		7	6	-
			Range		525- 594	500- 688	604- 604
			Sample Size	0	10	40	1
	7/9 - 12	M	Mean Length		574	602	606
			Std. Error		46	6	7
			Range		528- 619	549- 668	577- 629
			Sample Size	0	2	23	8
		F	Mean Length		543	582	564
			Std. Error		23	8	-
			Range		512- 612	521- 685	564- 564
			Sample Size	0	4	18	1
	8/13 - 16	M	Mean Length		558	586	
			Std. Error		6	8	
			Range		514- 599	535- 639	
			Sample Size	0	20	15	0
		F	Mean Length	468	545	586	
			Std. Error	-	5	12	
			Range	468- 468	467- 588	510- 671	
			Sample Size	1	32	15	0
	8/17 - 9/13	M	Mean Length		563	601	
			Std. Error		10	10	
			Range		528- 608	562- 621	
			Sample Size	0	7	5	0
		F	Mean Length	520	535	551	
			Std. Error	-	5	15	
			Range	520- 520	503- 555	522- 568	
			Sample Size	1	10	3	0
	Season	M	Mean Length		569	612	620
			Range		514- 632	512- 699	577- 665
			Sample Size	0	48	219	13
		F	Mean Length	494	545	583	577
			Range	468- 520	467- 612	500- 688	549- 604
			Sample Size	2	59	139	4

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 6 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984	6/19, 21, 23-25 (6/19 - 25)	M	Mean Length		573	601	638
			Std. Error		8	10	24
			Range		545- 608	439- 680	592- 703
			Sample Size	0	8	22	4
		F	Mean Length		564	574	598
			Std. Error		4	9	18
			Range		559- 573	530- 650	580- 615
			Sample Size	0	3	13	2
	6/26 - 29 (6/26 - 29)	M	Mean Length		582	615	614
			Std. Error		7	5	9
			Range		473- 640	560- 704	560- 661
			Sample Size	0	30	37	10
		F	Mean Length		559	577	596
			Std. Error		5	4	18
			Range		523- 595	553- 612	554- 654
			Sample Size	0	16	18	5
	6/30 - 7/3 (6/30 - 7/3)	M	Mean Length		568	611	607
			Std. Error		3	5	18
			Range		511- 618	543- 653	561- 670
			Sample Size	0	49	25	5
		F	Mean Length		561	585	595
			Std. Error		6	6	10
			Range		511- 597	532- 608	565- 605
			Sample Size	0	19	13	4
	7/4 - 7 (7/4 - 7)	M	Mean Length		574	595	600
			Std. Error		3	10	10
			Range		530- 638	539- 649	590- 610
			Sample Size	0	52	13	2
		F	Mean Length		551	567	565
			Std. Error		5	6	-
			Range		498- 599	534- 635	565- 565
			Sample Size	0	26	18	1
	7/8 - 11 (7/8 - 11)	M	Mean Length		579	599	
			Std. Error		3	8	
			Range		532- 648	564- 663	
			Sample size	0	60	14	0
		F	Mean Length		552	571	533
			Std. Error		4	9	-
			Range		520- 618	520- 633	533- 533
			Sample size	0	30	11	1

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 7 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984 (cont.)	7/12 - 15 (7/12 - 15)	M	Mean Length		575	592	
			Std. Error		3	8	
			Range		528- 640	545- 635	
			Sample Size	0	53	13	0
		F	Mean Length		548	568	
			Std. Error		4	8	
			Range		484- 599	541- 600	
			Sample Size	0	42	9	0
	7/16 - 19 (7/16 - 19)	M	Mean Length		578	602	
			Std. Error		3	13	
			Range		534- 644	560- 668	
			Sample Size	0	62	8	0
		F	Mean Length		546	537	
			Std. Error		4	7	
			Range		495- 606	527- 550	
			Sample Size	0	41	3	0
	7/20 - 23 (7/20 - 23)	M	Mean Length		571	596	
			Std. Error		3	14	
			Range		514- 636	542- 644	
			Sample Size	0	74	7	0
		F	Mean Length		552	590	564
			Std. Error		5	5	-
			Range		484- 594	585- 595	564- 564
			Sample Size	0	28	2	1
	7/24 - 27 (7/24 - 27)	M	Mean Length		574	612	
			Std. Error		3	16	
			Range		528- 640	552- 662	
			Sample Size	0	72	6	0
		F	Mean Length		550	609	
			Std. Error		4	-	
			Range		505- 591	609- 609	
			Sample Size	0	34	1	0
	7/28 - 31 (7/28 - 31)	M	Mean Length		574	608	
			Std. Error		3	15	
			Range		522- 624	588- 637	
			Sample Size	0	86	3	0
		F	Mean Length		549	570	
			Std. Error		6	-	
			Range		512- 608	570- 570	
			Sample Size	0	21	1	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 8 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1984 (cont.)	8/1 - 4 (8/1 - 4)	M	Mean Length		573	592	
			Std. Error		3	31	
			Range		470- 628	501- 634	
			Sample Size	0	81	4	0
		F	Mean Length		541	556	
			Std. Error		4	-	
			Range		504- 596	556- 556	
			Sample Size	0	31	1	0
	8/6- 11, 14- 15 (8/5 - 18)	M	Mean Length		574	590	
			Std. Error		4	-	
			Range		539- 644	590- 590	
			Sample size	0	43	1	0
		F	Mean Length		545	633	
			Std. Error		10	-	
			Range		490- 580	633- 633	
			Sample size	0	12	1	0
	Season	M	Mean Length		575	599	606
			Range		470- 664	439- 704	560- 703
			Sample size	0	670	153	21
		F	Mean Length		550	570	571
			Range		484- 618	520- 650	533- 654
			Sample size	0	303	91	14
1985	7/7 - 10 (6/23 - 7/10)	M	Mean Length		580	600	
			Std. Error		7	4	
			Range		528- 626	530- 669	
			Sample Size	0	17	49	0
		F	Mean Length		555	573	
			Std. Error		10	4	
			Range		522- 593	527- 656	
			Sample Size	0	6	44	0
	7/11 - 14 (7/11 - 14)	M	Mean Length		575	597	
			Std. Error		6	4	
			Range		531- 612	548- 668	
			Sample Size	0	18	52	0
		F	Mean Length		558	575	
			Std. Error		6	4	
			Range		524- 580	539- 624	
			Sample Size	0	10	36	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 9 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1985 (cont.)	7/15 - 18 (7/15 - 18)	M	Mean Length		581	584	
			Std. Error		6	5	
			Range		544- 617	516- 688	
			Sample Size	0	15	49	0
		F	Mean Length		553	566	
			Std. Error		8	4	
			Range		509- 586	525- 634	
			Sample Size	0	12	36	0
	7/19 - 22 (7/19 - 22)	M	Mean Length	495	572	591	574
			Std. Error	0	4	5	17
			Range	495- 495	536- 607	518- 651	548- 607
			Sample Size	1	22	40	3
		F	Mean Length		550	568	
			Std. Error		5	6	
			Range		509- 576	495- 629	
			Sample Size	0	17	29	0
	7/23 - 27 (7/23 - 27)	M	Mean Length	562	570	585	613
			Std. Error	0	4	5	0
			Range	562- 562	492- 611	510- 721	613- 613
			Sample Size	1	35	64	1
		F	Mean Length		552	561	
			Std. Error		6	5	
			Range		524- 591	513- 627	
			Sample Size	0	14	27	0
	7/29 - 8/1 (7/29 - 8/1)	M	Mean Length		573	577	
			Std. Error		8	6	
			Range		518- 616	514- 673	
			Sample Size	0	15	35	0
		F	Mean Length		541	554	
			Std. Error		5	4	
			Range		496- 584	513- 591	
			Sample Size	0	26	30	0
	8/2 - 3, 5 - 6 (8/2 - 6)	M	Mean Length		564	572	
			Std. Error		6	7	
			Range		528- 595	515- 630	
			Sample Size	0	13	18	0
		F	Mean Length		535	550	
			Std. Error		5	4	
			Range		495- 568	509- 598	
			Sample Size	0	15	34	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 10 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1985 (cont.)	8/7 - 9 (8/7 - 9)	M	Mean Length		532	567	
			Std. Error		19	8	
			Range		502- 568	513- 628	
			Sample Size	0	3	15	0
		F	Mean Length		533	550	
			Std. Error		9	5	
			Range		495- 604	520- 586	
			Sample Size	0	11	17	0
	8/10, 12 - 15 (8/10 - 28)	M	Mean Length		501	555	
			Std. Error		-	9	
			Range		501- 501	518- 605	
			Sample Size	0	1	11	0
		F	Mean Length		524	539	
			Std. Error		9	4	
			Range		453- 565	499- 580	
			Sample Size	0	15	17	0
	Season	M	Mean Length	528	574	590	584
			Range	495- 562	492- 626	510- 721	548- 613
			Sample size	2	139	333	4
		F	Mean Length		548	567	
			Range		453- 604	495- 656	
			Sample size	0	126	270	0
1986	6/29 - 7/3 (6/23 - 7/3)	M	Mean Length		578	608	642
			Std. Error		5	5	12
			Range		508- 635	562- 656	630- 653
			Sample Size	0	39	27	2
		F	Mean Length		555	578	578
			Std. Error		4	8	3
			Range		518- 608	540- 633	575- 580
			Sample Size	0	26	13	2
	7/4 - 7 (7/4 - 7)	M	Mean Length		582	598	590
			Std. Error		3	4	-
			Range		515- 630	536- 636	590- 590
			Sample Size	0	62	26	1
		F	Mean Length		567	560	553
			Std. Error		5	3	-
			Range		532- 624	556- 576	553- 553
			Sample Size	0	17	6	1

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 11 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1986 (cont.)	7/8 - 11 (7/8 - 11)	M	Mean Length		579	590	618
			Std. Error		3	6	3
			Range		538- 617	513- 651	615- 621
			Sample Size	0	49	28	2
		F	Mean Length		556	578	
			Std. Error		4	7	
			Range		516- 605	535- 620	
			Sample Size	0	24	14	0
	7/12 - 15 (7/12 - 15)	M	Mean Length	559	581	607	590
			Std. Error	-	4	8	15
			Range	559- 559	530- 661	575- 642	575- 619
			Sample Size	1	47	9	3
		F	Mean Length	543	548	559	555
			Std. Error	-	4	6	-
			Range	543- 543	500- 606	520- 589	555- 555
			Sample Size	1	40	10	1
	7/16 - 19 (7/16 - 8/29)	M	Mean Length		577	600	610
			Std. Error		4	11	-
			Range		506- 639	552- 665	610- 610
			Sample Size	0	49	11	1
		F	Mean Length		549	561	582
			Std. Error		4	6	-
			Range		502- 595	540- 599	582- 582
			Sample Size	0	41	12	1
	Season	M	Mean Length	559	579	597	605
			Range	559- 559	506- 661	513- 665	575- 653
			Sample size	1	246	101	9
		F	Mean Length	543	551	568	568
			Range	543- 543	500- 624	520- 633	553- 582
			Sample size	1	148	55	5
1987 [d]	7/15 - 16	M	Mean Length		583	595	599
			Std. Error		13	4	13
			Range		570- 595	550- 665	560- 615
			Sample Size	0	2	31	4
		F	Mean Length		550	568	535
			Std. Error		-	7	-
			Range		550- 550	505- 605	535- 535
			Sample Size	0	1	18	1

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 12 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1987 (cont.)	8/10 - 11	M	Mean Length		531	560	572
			Std. Error		9	8	19
			Range		485- 600	520- 640	540- 605
			Sample Size	0	13	16	3
		F	Mean Length		536	553	
			Std. Error		5	6	
			Range		515- 550	520- 590	
			Sample Size	0	6	13	0
	8/12 - 14	M	Mean Length		530	556	585
			Std. Error		14	10	33
			Range		490- 575	510- 615	545- 650
			Sample Size	0	5	11	3
		F	Mean Length		501	534	575
			Std. Error		8	6	15
			Range		460- 525	490- 600	560- 590
			Sample Size	0	9	22	2
	Season	M	Mean Length				
			Range		485- 600	510- 665	540- 650
			Sample size	0	20	58	10
		F	Mean Length				
			Range		460- 550	490- 605	530- 590
			Sample size	0	16	53	3
1988		No data is available for the 1988 season.					
1989 [d]	7/7 - 14	M	Mean Length		582	601	608
			Std. Error		6	3	9
			Range		530- 630	510- 680	595- 625
			Sample Size	0	15	85	3
		F	Mean Length		554	578	575
			Std. Error		6	6	20
			Range		515- 590	530- 670	555- 595
			Sample Size	0	14	28	2
1990 [e]	6/30; 7/1 - 7 (6/18 - 7/7)	M	Mean Length		588	617	616
			Std. Error		4	4	6
			Range		530- 698	542- 660	605- 623
			Sample Size	0	66	45	3
		F	Mean Length		575	587	
			Std. Error		5	7	
			Range		523- 645	562- 630	
			Sample Size	0	31	10	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 13 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1990 (cont.)	7/8 - 14 (7/8 - 14)	M	Mean Length		581	603	
			Std. Error		3	8	
			Range		521- 659	500- 710	
			Sample Size	0	77	27	0
		F	Mean Length		573	577	
			Std. Error		6	7	
			Range		522- 620	550- 607	
			Sample Size	0	23	8	0
	7/15-18, 20-22 (7/15 - 8/29)	M	Mean Length		573	604	648
			Std. Error		4	20	-
			Range		512- 658	527- 690	648- 648
			Sample Size	0	72	7	1
		F	Mean Length		547	572	
			Std. Error		5	14	
			Range		522- 566	558- 585	
			Sample Size	0	10	2	0
	Season	M	Mean Length		579	610	629
			Range		512- 698	500- 710	605- 648
			Sample size	0	215	79	4
		F	Mean Length		567	580	
			Range		522- 645	550- 630	
			Sample size	0	64	20	0
1991	7/6 - 10 (6/23 - 7/10)	M	Mean Length	550	590	602	
			Std. Error	-	6	4	
			Range	500- 550	545- 660	540- 665	
			Sample Size	1	22	45	0
		F	Mean Length		576	586	
			Std. Error		8	9	
			Range		555- 605	560- 615	
			Sample Size	0	5	5	0
	7/11 - 14 (7/11 - 14)	M	Mean Length	540	581	596	
			Std. Error	-	6	5	
			Range	540- 540	520- 640	540- 655	
			Sample Size	1	31	29	0
		F	Mean Length		571	548	
			Std. Error		14	28	
			Range		540- 635	520- 575	
			Sample Size	0	6	2	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 14 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991 (cont.)	7/14 - 18 (7/14 - 18)	M	Mean Length		583	594	
			Std. Error		4	7	
			Range		535- 635	535- 570	
			Sample Size	0	33	20	0
		F	Mean Length		541	558	
			Std. Error		12	8	
			Range		480- 585	550- 565	
			Sample Size	0	8	2	0
	7/19 - 23 (7/19 - 8/29)	M	Mean Length		575	584	
			Std. Error		5	6	
			Range		500- 645	530- 640	
			Sample Size	0	42	26	0
		F	Mean Length		540	560	
			Std. Error		9	4	
			Range		495- 610	555- 570	
			Sample Size	0	11	4	0
	Season	M	Mean Length	544	579	592	
			Range	540- 550	500- 660	530- 670	
			Sample Size	2	128	120	0
		F	Mean Length		547	564	
			Range		480- 635	520- 615	
			Sample Size	0	30	13	0
1992	7/2 - 4 (6/17 - 7/9)	M	Mean Length		580	592	595
			Std. Error		4	3	-
			Range		540- 640	520- 720	595- 595
			Sample Size	0	29	92	1
		F	Mean Length		567	570	575
			Std. Error		6	4	-
			Range		510- 605	500- 620	575- 575
			Sample Size	0	19	34	1
	7/15 - 17 (7/10 - 8/21)	M	Mean Length	585	589	594	610
			Std. Error	11	3	4	-
			Range	565- 635	535- 670	530- 645	610- 610
			Sample Size	6	67	47	1
		F	Mean Length	553	556	574	
			Std. Error	15	4	4	
			Range	530- 580	505- 600	540- 615	
			Sample Size	3	36	26	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 15 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992 (cont.)	Season	M	Mean Length	585	586	593	603
			Range	565- 635	535- 670	520- 720	595- 610
			Sample size	6	96	139	2
		F	Mean Length	553	559	572	575
			Range	530- 580	505- 605	500- 620	575- 575
			Sample size	3	55	60	1
1993	7/8 - 10 (6/17 - 7/14)	M	Mean Length		612	609	611
			Std. Error		5	3	8
			Range		545- 650	550- 665	575- 655
			Sample Size	0	32	96	9
		F	Mean Length		584	584	569
			Std. Error		10	6	6
			Range		550- 670	505- 630	560- 590
			Sample Size	0	11	27	5
	7/20 - 24 (7/15 - 8/20)	M	Mean Length		574	579	582
			Std. Error		3	2	14
			Range		530- 640	530- 640	565- 610
			Sample Size	0	73	83	3
		F	Mean Length		542	547	
			Std. Error		10	7	
			Range		505- 615	525- 600	
			Sample Size	0	10	12	0
	Season	M	Mean Length		587	596	604
			Range		530- 650	530- 665	565- 655
			Sample size	0	105	179	12
		F	Mean Length		565	574	569
			Range		505 -670	505- 630	560- 590
			Sample size	0	21	39	5
1994 [f]	7/8, 9	M	Mean Length		594	603	607
			Std. Error		4	3	9
			Range		550- 640	545- 655	570- 630
			Sample Size	0	33	57	6
		F	Mean Length		575	567	
			Std. Error		6	6	
			Range		530- 615	530- 605	
			Sample Size	0	13	16	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 16 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	7/4 - 5 (7/2 - 6)	M	Mean Length		591	604	613
			Std. Error		8	3	7
			Range		360- 695	535- 685	600- 625
			Sample Size	0	39	71	3
		F	Mean Length		569	568	
			Std. Error		6	10	
			Range		530- 600	450- 605	
			Sample Size	0	12	15	0
	7/9 - 10 (7/7 - 13)	M	Mean Length	585	590	601	
			Std. Error	-	5	3	
			Range	585- 585	535- 650	515- 675	
			Sample Size	1	37	77	0
		F	Mean Length		558	591	
			Std. Error		23	7	
			Range		535- 580	545- 610	
			Sample Size	0	2	9	0
	7/16 - 17 (7/14 - 18)	M	Mean Length	560	520	597	
			Std. Error	28	5	4	
			Range	525- 615	500- 680	525- 650	
			Sample Size	3	62	51	0
		F	Mean Length		580	572	
			Std. Error		7	9	
			Range		535- 610	545- 600	
			Sample Size	0	13	7	0
	7/20 - 21 (7/19 - 24)	M	Mean Length		581	597	573
			Std. Error		4	6	23
			Range		530- 650	525- 680	550- 620
			Sample Size	0	69	44	3
		F	Mean Length		562	555	
			Std. Error		9	12	
			Range		520- 620	520- 580	
			Sample Size	0	10	5	0
	7/27 - 28 (7/25 - 31)	M	Mean Length	524	577	586	
			Std. Error	11	3	4	
			Range	490- 550	525- 660	535- 645	
			Sample Size	5	72	36	0
		F	Mean Length	525	560	572	
			Std. Error	-	6	11	
			Range	525- 525	525- 575	545- 610	
			Sample Size	1	8	6	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 17 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995 (cont.)	8/2 - 3 (8/1 - 5)	M	Mean Length	540	570	572	
			Std. Error	6	3	6	
			Range	525- 565	510- 625	490- 640	
			Sample Size	6	53	31	0
		F	Mean Length	513	559	555	
			Std. Error	3	7	20	
			Range	510- 515	490- 605	535- 575	
			Sample Size	2	16	2	0
	8/6, 8, 10 (8/6 - 9/3)	M	Mean Length	538	575	586	
			Std. Error	6	4	9	
			Range	520- 560	525- 615	525- 650	
			Sample Size	6	32	16	0
		F	Mean Length	515	526	533	
			Std. Error	13	7	3	
			Range	470- 565	480- 565	525- 540	
			Sample Size	6	12	4	0
	Season	M	Mean Length	552	569	599	593
			Range	490- 615	360- 695	490- 685	550- 620
			Sample size	21	364	326	6
		F	Mean Length	518	567	574	
			Range	470- 565	480- 620	450- 610	
			Sample size	9	73	48	0
1996	7/2 (6/19 - 7/5)	M	Mean Length	565	613	623	628
			Std. Error	-	4	3	14
			Range	565- 565	565- 674	570- 665	589- 650
			Sample Size	1	60	55	4
		F	Mean Length	576	584	569	
			Std. Error	15	9	23	
			Range	556- 605	535- 625	532- 610	
			Sample Size	3	10	3	0
	7/8- 9 (7/6-7/11)	M	Mean Length	609	607	630	598
			Std. Error	45	3	6	3
			Range	564- 654	555- 683	575- 692	595- 605
			Sample Size	2	69	29	3
		F	Mean Length		591	596	
			Std. Error		5	9	
			Range		568- 630	575- 625	
			Sample Size	0	13	5	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 18 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996 (cont.)	7/13 - 14 (7/12 - 17)	M	Mean Length		604	614	
			Std. Error		3	5	
			Range		524- 694	565- 683	
			Sample Size	0	92	27	0
		F	Mean Length	590	573	600	
			Std. Error	-	4	11	
			Range	590- 590	545- 600	553- 637	
			Sample Size	1	21	9	0
	7/21 - 22 (7/18 - 24)	M	Mean Length	560	598	606	
			Std. Error	2	2	4	
			Range	558- 561	518- 643	556- 644	
			Sample Size	2	102	21	0
		F	Mean Length		581	578	
			Std. Error		9	10	
			Range		498- 638	547- 595	
			Sample Size	0	18	5	0
	7/26, 28 - 29 (7/25 - 31)	M	Mean Length	563	592	607	
			Std. Error	21	3	8	
			Range	542- 583	523- 674	564- 650	
			Sample Size	2	116	10	0
		F	Mean Length	606	568	570	
			Std. Error	-	5	2	
			Range	606- 606	537- 603	568- 571	
			Sample Size	1	17	2	0
	8/3 - 7 (8/1 - 9/13)	M	Mean Length	591	585	595	580
			Std. Error	10	3	7	-
			Range	581- 600	527- 656	562- 631	580- 580
			Sample Size	2	89	9	1
		F	Mean Length		567	545	566
			Std. Error		6	16	-
			Range		500- 610	529- 560	566- 566
			Sample Size	0	15	2	1
	Season	M	Mean Length	588	605	622	614
			Range	542- 654	518- 694	556- 692	580- 650
			Sample size	9	528	151	8
		F	Mean Length	580	581	590	566
			Range	556- 606	498- 638	529- 637	566- 566
			Sample size	5	94	26	1

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Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 19 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997	7/3 - 6 (6/22 - 7/7)		Mean Length		597	621	600
			Std. Error		5	2	-
			Range		555- 665	545- 695	600- 600
			Sample Size	0	32	123	1
		F	Mean Length		625	590	
			Std. Error		-	8	
			Range		625- 625	555- 635	
			Sample Size	0	1	10	0
	7/10 - 13 (7/8 - 15)	M	Mean Length	555	595	617	628
			Std. Error	-	4	2	3
			Range	555- 555	540- 665	555- 680	625- 630
			Sample Size	1	63	108	2
		F	Mean Length		569	584	
			Std. Error		10	8	
			Range		550- 595	570- 605	
			Sample Size	0	4	4	0
	7/18 - 22 (7/16 - 23)	M	Mean Length	540	594	605	
			Std. Error	-	3	3	
			Range	540- 540	535- 670	530- 670	
			Sample Size	1	107	75	0
		F	Mean Length		593	569	
			Std. Error		3	13	
			Range		590- 595	540- 590	
			Sample Size	0	2	4	0
	7/26, 29 (7/24 - 31)	M	Mean Length	530	584	605	610
			Std. Error	-	3	5	-
			Range	530- 530	545- 630	575- 660	610- 610
			Sample Size	1	44	22	1
		F	Mean Length				
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	8/3 - 5 (8/1 - 9/10)	M	Mean Length		574	570	
			Std. Error		4	10	
			Range		515- 635	560- 580	
			Sample Size	0	32	2	0
		F	Mean Length				
			Std. Error				
			Range				
			Sample Size	0	0	0	0

- continued -

Table 48. Mean length (mm) of chum salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 20 of 20).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 (cont.)	Season	M	Mean Length	542	590	615	616
			Range	530- 555	515- 670	530- 695	600- 630
			Sample Size	3	278	330	4
		F	Mean Length		584	585	
			Range		550- 625	540- 635	
			Sample Size	0	7	18	0
	Grand Total [g]	M	Mean Length	566	554	574	581
			Range	470- 654	360- 698	439- 721	540- 703
			Sample size	45	3,019	2,177	73
		F	Mean Length	534	531	548	516
			Range	468- 606	453- 670	450- 689	533- 654
			Sample size	18	1,054	737	27

a "Season" mean lengths are weighted by the escapement passage in each stratum.
b Kogrukluk River escapement was monitored with a counting tower; samples were collected with a beach seine.
c Measurements are not comparable with other years; a different type of length measurement is suspected.
d The weir washed out in 1983, 1987 and 1989; these years are excluded from the "Grand Total".
e All 1990 Kogrukluk chinook salmon scales need to be re-aged due to potential aging errors.
f Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total"
g "Grand Total" mean lengths are simple averages of the "Season" mean lengths. Years excluded are 1971 - 1973, 1983, 1987, 1989, and 1994.

Table 49. Age and sex of chum salmon at the George River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1996	6/22 - 23	47	M	0	0.0	403	10.6	1,288	34.0	242	6.4	1,932	51.1
	(6/21 - 28)		F	81	2.1	805	21.3	966	25.5	0	0.0	1,852	48.9
			Subtotal	81	2.1	1,208	31.9	2,254	59.6	242	6.4	3,784	100.0
	7/5 - 6	177	M	0	0.0	1,804	31.1	1,968	33.9	33	0.6	3,804	65.5
	(6/29 - 7/8)		F	0	0.0	1,115	19.2	886	15.3	0	0.0	2,001	34.5
			Subtotal	0	0.0	2,919	50.3	2,853	49.2	33	0.6	5,805	100.0
	7/11	91	M	50	2.2	700	30.8	375	16.5	25	1.1	1,151	50.5
	(7/9 - 13)		F	75	3.3	725	31.9	325	14.3	0	0.0	1,125	49.5
			Subtotal	125	5.5	1,426	62.6	700	30.8	25	1.1	2,276	100.0
	7/16 - 17	203	M	11	0.5	744	33.0	388	17.2	0	0.0	1,143	50.7
	(7/14 - 18)		F	55	2.5	744	33.0	311	13.8	0	0.0	1,110	49.3
			Subtotal	67	3.0	1,487	66.0	699	31.0	0	0.0	2,253	100.0
	7/20	69	M	0	0.0	645	39.1	143	8.7	0	0.0	789	47.8
	(7/19 - 22)		F	72	4.3	574	34.8	215	13.0	0	0.0	860	52.2
			Subtotal	72	4.3	1,219	73.9	358	21.7	0	0.0	1,649	100.0
	7/25 - 26	178	M	0	0.0	699	38.8	152	8.4	20	1.1	871	48.3
	(7/23 - 26)		F	0	0.0	750	41.6	182	10.1	0	0.0	932	51.7
			Subtotal	0	0.0	1,448	80.3	334	18.5	20	1.1	1,803	100.0
	Season	765	M	61	0.3	4,994	28.4	4,315	24.6	320	1.8	9,690	55.2
			F	283	1.6	4,712	26.8	2,885	16.4	0	0.0	7,880	44.8
			Total	344	2.0	9,707	55.2	7,200	41.0	320	1.8	17,570	100.0
1997	7/4, 7- 11	95	M	0	0.0	451	23.1	636	32.6	41	2.1	1,128	57.9
	(6/16 - 7/12)		F	0	0.0	308	15.8	492	25.3	21	1.1	821	42.1
			Subtotal	0	0.0	759	38.9	1,128	57.9	62	3.2	1,949	100.0
	7/14 - 18	190	M	0	0.0	380	30.5	387	31.1	13	1.1	780	62.6
	(7/13 - 19)		F	0	0.0	276	22.1	184	14.7	7	0.5	466	37.4
			Subtotal	0	0.0	656	52.6	571	45.8	20	1.6	1,246	100.0
	7/21 - 24	163	M	0	0.0	439	28.8	421	27.6	9	0.6	869	57.1
	(7/20 - 25)		F	0	0.0	346	22.7	308	20.3	0	0.0	654	42.9
			Subtotal	0	0.0	785	51.5	729	47.9	9	0.6	1,523	100.0
	7/27 - 31	125	M	0	0.0	257	38.4	171	25.6	0	0.0	428	64.0
	(7/26 - 8/1)		F	11	1.6	171	25.6	54	8.0	5	0.8	241	36.0
			Subtotal	11	1.6	428	64.0	225	33.6	5	0.8	669	100.0
	8/4 - 6	30	M	0	0.0	76	30.0	42	16.7	0	0.0	118	46.7
	(8/2 - 7)		F	0	0.0	110	43.3	25	10.0	0	0.0	135	53.3
			Subtotal	0	0.0	186	73.3	67	26.7	0	0.0	253	100.0
	8/10 - 13	38	M	16	5.3	40	13.1	16	5.3	0	0.0	71	23.7
	(8/8 - 9/10)		F	16	5.2	197	65.8	16	5.2	0	0.0	229	76.3
			Subtotal	32	10.5	237	78.9	32	10.5	0	0.0	300	100.0
	Season	641	M	16	0.3	1,643	27.7	1,673	28.1	64	1.1	3,395	57.2
			F	26	0.4	1,407	23.7	1,079	18.2	32	0.5	2,545	42.8
			Total	42	0.7	3,050	51.4	2,752	46.3	96	1.6	5,940	100.0
	Grand Total [c]	1,406	M	77	0.3	6,637	28.2	5,988	25.5	384	1.6	13,085	55.7
			F	309	1.3	6,119	26.0	3,964	16.9	32	0.1	10,425	44.3
			Total	386	1.6	12,757	54.3	9,952	42.3	416	1.8	23,510	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals.

Table 50. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap.[a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996	6/22 - 23 (6/21 - 28)	M	Mean Length		616	625	644
			Std. Error		26	6	37
			Range		553- 702	589- 675	573- 698
			Sample Size	0	5	16	3
		F	Mean Length	598	556	590	
			Std. Error	-	6	8	
			Range	598- 598	516- 589	544- 623	
			Sample Size	1	10	12	0
	7/5 - 6 (6/29 - 7/8)	M	Mean Length		601	616	613
			Std. Error		5	5	-
			Range		509- 703	526- 689	613- 613
			Sample Size	0	55	60	1
		F	Mean Length		553	562	
			Std. Error		5	8	
			Range		494- 619	459- 657	
			Sample Size	0	34	27	0
	7/11 (7/9 - 13)	M	Mean Length	595	608	609	577
			Std. Error	6	8	8	-
			Range	589- 601	521- 702	548- 656	577- 577
			Sample Size	2	28	15	1
		F	Mean Length	561	558	551	
			Std. Error	19	7	14	
			Range	537- 598	498- 639	443- 624	
			Sample Size	3	29	13	0
	7/16 - 17 (7/14 - 18)	M	Mean Length	580	596	611	
			Std. Error	-	5	6	
			Range	580- 580	442- 689	522- 679	
			Sample Size	1	67	35	0
		F	Mean Length	550	563	578	
			Std. Error	15	4	6	
			Range	500- 576	474- 635	499- 640	
			Sample Size	5	67	28	0
	7/20 (7/19 - 22)	M	Mean Length		590	595	
			Std. Error		6	21	
			Range		548- 653	548- 689	
			Sample Size	0	27	6	0
		F	Mean Length	525	552	551	
			Std. Error	21	8	7	
			Range	496- 565	460- 618	523- 597	
			Sample Size	3	24	9	0

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Table 50. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/25 - 26	M	Mean Length		585	589	583
	(7/23 - 26)		Std. Error		4	10	41
			Range		522- 651	523- 678	542- 623
			Sample Size	0	69	15	2
		F	Mean Length		545	561	
			Std. Error		4	8	
			Range		483- 614	506- 641	
			Sample Size	0	74	18	0
	Season	M	Mean Length	592	599	616	632
			Range	580- 601	509- 703	522- 689	542- 698
			Sample size	3	251	147	7
		F	Mean Length	560	554	571	
			Range	496- 614	460- 639	443- 657	
			Sample size	12	238	107	0
1997	7/4, 7- 11	M	Mean Length		572	608	635
	(6/16 - 7/12)		Std. Error		9	7	14
			Range		465- 628	526- 678	620- 649
			Sample Size	0	21	30	2
		F	Mean Length		552	564	570
			Std. Error		7	6	-
			Range		505- 599	500- 625	570- 570
			Sample Size	0	15	24	1
	7/14 - 18	M	Mean Length		562	588	617
	(7/13 - 19)		Std. Error		4	4	22
			Range		508- 632	530- 667	595- 639
			Sample Size	0	58	59	2
		F	Mean Length		536	541	605
			Std. Error		4	5	-
			Range		458- 615	483- 602	605- 605
			Sample Size	0	42	28	1
	7/21 - 24	M	Mean Length		556	579	564
	(7/20 - 25)		Std. Error		4	6	-
			Range		515- 629	501- 667	564- 564
			Sample Size	0	47	45	1
		F	Mean Length		536	565	
			Std. Error		4	5	
			Range		479- 580	514- 619	
			Sample Size	0	37	33	0

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Table 50. Mean length (mm) of chum salmon at the George River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 (cont.)	7/27 - 31 (7/26 - 8/1)	M	Mean Length		559	570	
			Std. Error		4	6	
			Range		500- 640	519- 641	
			Sample Size	0	48	32	0
		F	Mean Length	506	535	547	563
			Std. Error	4	5	11	-
			Range	502- 509	477- 587	494- 595	563- 563
			Sample Size	2	32	10	1
	8/4 - 6 (8/2 - 7)	M	Mean Length		549	581	
			Std. Error		8	14	
			Range		521- 592	538- 613	
			Sample Size	0	9	5	0
		F	Mean Length		519	527	
			Std. Error		8	8	
			Range		478- 579	514- 540	
			Sample Size	0	13	3	0
	8/10 - 13 (8/8 - 9/10)	M	Mean Length	514	540	595	
			Std. Error	43	12	13	
			Range	471- 557	508- 578	582- 607	
			Sample Size	2	5	2	0
		F	Mean Length	503	516	514	
			Std. Error	22	8	8	
			Range	481- 524	372- 576	506- 522	
			Sample Size	2	25	2	0
	Season	M	Mean Length	514	561	591	621
			Range	471- 557	465- 640	501- 678	564- 649
			Sample Size	2	188	173	5
		F	Mean Length	504	535	558	576
			Range	481- 524	372- 615	483- 625	563- 605
			Sample Size	4	164	100	3
	Grand Total[b]	M	Mean Length	553	580	603	626
			Range	471- 601	465- 703	501- 689	542- 698
			Sample size	5	439	320	12
		F	Mean Length	532	545	564	576
			Range	481- 614	372- 639	443- 657	563- 605
			Sample size	16	402	207	3

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.
[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 51. Age and sex of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine.

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1984 [a]	6/27 - 7/6	26	M		0.0		46.2		15.4		7.7		69.3
			F		0.0		11.5		15.4		3.8		30.7
			Subtotal		0.0		57.7		30.8		11.5		100.0
	7/7 - 13	23	M		0.0		56.5		17.4		0.0		73.9
			F		0.0		17.4		8.7		0.0		26.1
			Subtotal		0.0		73.9		26.1		0.0		100.0
	7/14 - 18	28	M		0.0		50.0		14.3		0.0		64.3
			F		0.0		21.4		14.3		0.0		35.7
			Subtotal		0.0		71.4		28.6		0.0		100.0
	7/20 - 30	27	M		0.0		44.4		18.5		0.0		63.0
			F		0.0		25.9		11.1		0.0		37.0
			Subtotal		0.0		70.3		29.6		0.0		100.0
	Season [b]	104	M		0.0		49.0		16.3		1.9		67.3
			F		0.0		19.2		12.5		1.0		32.7
			Total		0.0		68.3		28.8		2.9		100.0
1985 [a]	6/26 - 7/6	19	M		0.0		0.0		63.2		0.0		63.2
			F		0.0		10.5		26.3		0.0		36.8
			Subtotal		0.0		10.5		89.5		0.0		100.
	7/7 - 13	36	M		0.0		8.3		30.6		5.6		44.5
			F		0.0		22.2		33.3		0.0		55.5
			Subtotal		0.0		30.5		63.9		5.6		100.0
	7/14 - 19	61	M		0.0		24.6		29.5		0.0		54.1
			F		0.0		26.2		19.7		0.0		45.9
			Subtotal		0.0		50.8		49.2		0.0		100.0
	7/20 - 30	52	M		0.0		25.0		26.9		0.0		51.9
			F		0.0		23.1		25.0		0.0		48.1
			Subtotal		0.0		48.1		51.9		0.0		100.0
	Season [b]	168	M		0.0		18.5		32.7		1.2		52.4
			F		0.0		22.6		25.0		0.0		47.6
			Total		0.0		41.1		57.7		1.2		100.0
1989 [a]	7/30	54	M		0.0		31.5		27.8		0.0		59.3
			F		0.0		27.8		13.0		0.0		40.8
			Total		0.0		59.3		40.7		0.0		100.0
1994 [a]	7/25 - 26	92	M										
			F										
			Total		1.1		77.2		20.7		1.1		100.0

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Table 51. Age and sex of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1995 [c]	7/6 - 7	46	M		0.0		4.3		39.1		0.0		43.5
			F		0.0		21.7		34.8		0.0		56.5
			Subtotal		0.0		26.1		73.9		0.0		100.0
	7/13, 15, 17	39	M		2.6		25.6		41.0		0.0		69.2
			F		0.0		12.8		17.9		0.0		30.7
			Subtotal		2.6		38.5		58.9		0.0		100.0
	7/18	47	M		2.1		25.5		17.0		0.0		44.7
			F		4.3		25.5		25.5		0.0		55.3
			Subtotal		6.4		51.0		42.6		0.0		100.0
	7/20 - 21	62	M		3.2		29.0		14.5		0.0		46.7
			F		9.7		33.9		9.7		0.0		53.3
			Subtotal		12.9		62.9		24.2		0.0		100.0
	7/24 - 25	50	M		4.0		20.0		16.0		2.0		42.0
			F		2.0		40.0		14.0		2.0		58.0
			Subtotal		6.0		60.0		30.0		4.0		100.0
	Season [b]	244	M		2.5		21.3		24.2		0.4		48.4
			F		3.7		27.9		19.7		0.4		51.6
			Total		6.1		49.2		43.9		0.8		100.0
1996	7/1 - 2	78	M	0	0.0	15,822	17.9	12,431	14.1	2,260	2.6	30,513	34.6
	(6/21 - 7/4)		F	0	0.0	32,773	37.2	24,863	28.2	0	0.0	57,636	65.4
			Subtotal	0	0.0	48,595	55.1	37,294	42.3	2,260	2.6	88,149	100.0
	7/5 - 8	35	M	0	0.0	14,422	28.6	8,653	17.1	0	0.0	23,075	45.7
	(7/6 - 7)		F	0	0.0	15,864	31.4	11,538	22.9	0	0.0	27,402	54.3
			Subtotal	0	0.0	30,286	60.0	20,191	40.0	0	0.0	50,477	100.0
	7/10 - 11	59	M	0	0.0	8,014	18.6	5,829	13.6	0	0.0	13,843	32.2
	(7/9 - 14)		F	0	0.0	21,129	49.2	8,014	18.6	0	0.0	29,143	67.8
			Subtotal	0	0.0	29,143	67.8	13,843	32.2	0	0.0	42,986	100.0
	7/16	120	M	0	0.0	6,937	36.7	1,892	10.0	158	0.8	8,987	47.5
	(7/15 - 17)		F	473	2.5	7,883	41.7	1,577	8.3	0	0.0	9,932	52.5
			Subtotal	473	2.5	14,820	78.3	3,468	18.3	158	0.8	18,919	100.0
	7/19 - 20	167	M	1,216	1.2	37,710	37.1	7,299	7.2	608	0.6	46,834	46.1
	(7/18 - 28)		F	3,649	3.6	37,102	36.5	12,165	12.0	1,825	1.8	54,741	53.9
			Subtotal	4,866	4.8	74,813	73.7	19,463	19.2	2,433	2.4	101,575	100.0
	Season [d]	459	M	1,216	0.4	82,905	27.4	36,104	12.0	3,026	1.0	123,252	40.8
			F	4,122	1.4	114,751	38.0	58,156	19.3	1,825	0.6	178,854	59.2
			Total	5,339	1.8	197,657	65.4	94,260	31.2	4,851	1.6	302,106	100.0

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Table 51. Age and sex of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1997	6/30, 7/2- 4	139	M	0	0.0	15,207	22.3	22,074	32.4	491	0.7	37,772	55.4
	(6/16 - 7/6)		F	491	0.7	15,679	24.5	13,245	19.4	0	0.0	30,414	44.6
			Subtotal	491	0.7	31,886	46.8	35,319	51.8	491	0.7	68,186	100.0
	7/9 - 12	169	M	0	0.0	13,860	32.6	8,568	20.1	252	0.6	22,680	53.3
	(7/7 - 13)		F	252	0.6	14,364	33.7	4,788	11.3	504	1.2	19,908	46.7
			Subtotal	252	0.6	28,224	66.3	13,356	31.4	756	1.8	42,588	100.0
	7/15 - 16	138	M	305	1.5	6,863	32.6	5,033	23.9	0	0.0	12,201	58.0
	(7/14 - 17)		F	305	1.4	5,033	23.9	3,507	16.7	0	0.0	8,845	42.0
			Subtotal	610	2.9	11,896	56.5	8,540	40.6	0	0.0	21,046	100.0
	7/20	124	M	0	0.0	20,504	37.1	6,686	12.1	0	0.0	27,189	49.2
	(7/18 - 22)		F	446	0.8	19,166	34.7	8,023	14.5	446	0.8	28,081	50.8
			Subtotal	446	0.8	39,670	71.8	14,709	26.6	446	0.8	55,270	100.0
	7/24	156	M	0	0.0	7,620	32.7	3,138	13.5	0	0.0	10,758	46.2
	(7/23 - 26)		F	598	2.6	9,263	39.7	2,689	11.5	0	0.0	12,550	53.8
			Subtotal	598	2.6	16,883	72.4	5,827	25.0	0	0.0	23,308	100.0
	7/28	127	M	0	0.0	17,238	33.1	2,873	5.5	0	0.0	20,111	38.6
	(7/27 - 8/3)		F	1,231	2.4	26,267	50.4	4,515	8.7	0	0.0	32,013	61.4
			Subtotal	1,231	2.4	43,505	83.5	7,388	14.2	0	0.0	52,124	100.0
	Season [d]	853	M	305	0.1	81,291	30.9	48,372	18.4	742	0.3	130,710	49.8
			F	3,322	1.3	90,772	34.6	36,767	14.0	950	0.3	131,812	50.2
			Total	3,627	1.4	172,063	65.5	85,139	32.4	1,692	0.6	262,522	100.0
	Grand Total [e]	1,312	M	1,521	0.3	164,196	29.1	84,476	15.0	3,768	0.7	253,962	45.0
			F	7,444	1.3	205,523	36.4	94,923	16.8	2,775	0.5	310,666	55.0
			Total	8,966	1.6	369,720	65.5	179,399	31.8	6,543	1.2	564,628	100.0

a Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.
b For the season summary the percentages are weighted by sample size rather than estimated abundance.
c Escapement estimates are not available for 1995.
d The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
e The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 52. Mean length (mm) of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine.

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	7/6 - 7	M	Mean Length		615	576	
			Std. Error		5	7	
			Range		610- 620	540- 640	
			Sample Size	0	2	18	0
		F	Mean Length		553	552	
			Std. Error		12	6	
			Range		500- 625	505- 595	
			Sample Size	0	10	16	0
	7/13 - 17	M	Mean Length	540	562	576	
			Std. Error	-	11	7	
			Range	540- 540	510- 610	540- 630	
			Sample Size	1	10	16	0
		F	Mean Length		543	551	
			Std. Error		18	6	
			Range		500- 600	535- 575	
			Sample Size	0	5	7	0
	7/18	M	Mean Length	520	560	593	
			Std. Error	-	8	9	
			Range	520- 520	515- 605	575- 640	
			Sample Size	1	12	8	0
		F	Mean Length	513	543	549	
			Std. Error	8	10	8	
			Range	505- 520	500- 625	510- 600	
			Sample Size	2	12	12	0
	7/20 - 21	M	Mean Length	518	584	583	
			Std. Error	13	6	13	
			Range	505- 530	545- 645	525- 630	
			Sample Size	2	18	9	0
		F	Mean Length	530	541	564	
			Std. Error	14	5	10	
			Range	475- 575	485- 575	530- 590	
			Sample Size	6	10	6	0
	7/24 -25	M	Mean Length	533	563	598	580
			Std. Error	3	9	10	-
			Range	530- 535	525- 610	550- 630	580- 580
			Sample Size	2	10	8	1
		F	Mean Length	550	538	566	585
			Std. Error	-	6	8	-
			Range	550- 550	495- 580	530- 595	585- 585
			Sample Size	1	20	7	1
	Season [a]	M	Mean Length	527	571	582	580
			Range	505- 540	505- 645	525- 640	580- 580
			Sample size	6	52	59	1
		F	Mean Length	528	543	555	585
			Range	475- 575	485- 625	505- 600	585- 585
			Sample size	9	57	48	1

-continued-

Table 52. Mean length (mm) of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996	7/1 - 2 (6/21 - 7/4)	M	Mean Length		608	624	635
			Std. Error		7	8	5
			Range	0	555- 640	565- 675	630- 640
			Sample Size		14	11	2
		F	Mean Length		576	596	
			Std. Error		5	6	
			Range		525- 670	540- 650	
			Sample Size	0	29	22	0
	7/5 - 8 (7/6 - 7)	M	Mean Length		610	626	
			Std. Error		9	11	
			Range		570- 675	605- 680	
			Sample Size	0	10	6	0
		F	Mean Length		572	578	
			Std. Error		6	11	
			Range		540- 605	540- 625	
			Sample Size	0	11	8	0
	7/10 - 11 (7/9 - 14)	M	Mean Length		614	634	
			Std. Error		9	10	
			Range		550- 650	590- 685	
			Sample Size	0	11	8	0
		F	Mean Length		575	577	
			Std. Error		5	6	
			Range		500- 640	550- 610	
			Sample Size	0	29	11	0
	7/16 (7/15 - 17)	M	Mean Length		591	607	580
			Std. Error		4	7	-
			Range		530- 655	575- 650	580- 580
			Sample Size	0	44	12	1
		F	Mean Length	553	548	568	
			Std. Error	9	3	7	
			Range	540- 570	470- 595	535- 595	
			Sample Size	3	50	10	0
	7/19 - 20 (7/18 - 28)	M	Mean Length	575	593	591	610
			Std. Error	10	3	10	-
			Range	565- 585	540- 645	550- 640	610- 610
			Sample Size	2	62	12	1
		F	Mean Length	552	548	560	563
			Std. Error	17	3	5	16
			Range	495- 610	480- 630	505- 590	535- 590
			Sample Size	6	61	20	3
	Season [b]	M	Mean Length	575	600	618	627
			Range	565- 585	530- 675	550- 685	580- 640
			Sample size	2	141	49	4
		F	Mean Length	552	564	582	563
			Range	495- 610	470- 670	505- 650	535- 590
			Sample size	9	180	71	3

-continued-

Table 52. Mean length (mm) of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997	6/30, 7/2- 4 (6/16 - 7/6)	M	Mean Length		607	621	630
			Std. Error		6	4	-
			Range		505- 665	555- 695	630- 630
			Sample Size	0	31	45	1
		F	Mean Length	545	557	580	
			Std. Error	-	6	5	
			Range	545- 545	505- 620	545- 665	
			Sample Size	1	34	26	0
	7/9 - 12 (7/7 - 13)	M	Mean Length		598	612	610
			Std. Error		4	6	-
			Range		510- 705	535- 695	610- 610
			Sample Size	0	55	34	1
		F	Mean Length	500	553	574	540
			Std. Error	-	5	5	30
			Range	500- 500	495- 670	535- 645	510- 570
			Sample Size	1	57	19	2
	7/15 - 16 (7/14 - 17)	M	Mean Length	553	585	609	
			Std. Error	23	4	6	
			Range	530- 575	515- 650	530- 690	
			Sample Size	2	45	33	0
		F	Mean Length	525	553	566	
			Std. Error	15	5	5	
			Range	510- 540	500- 610	500- 615	
			Sample Size	2	33	23	0
	7/20 (7/18 - 22)	M	Mean Length		576	609	
			Std. Error		5	8	
			Range		510- 695	555- 665	
			Sample Size	0	45	15	0
		F	Mean Length	570	539	547	575
			Std. Error	-	5	6	-
			Range	570- 570	485- 640	475- 590	575- 575
			Sample Size	1	42	18	1
	7/24 (7/23 - 26)	M	Mean Length		575	609	
			Std. Error		4	7	
			Range		535- 635	560- 665	
			Sample Size	0	51	21	0
		F	Mean Length	541	542	569	
			Std. Error	7	3	5	
			Range	525- 555	495- 590	525- 595	
			Sample Size	4	61	18	0
	7/28 (7/27 - 8/3)	M	Mean Length		571	605	
			Std. Error		4	16	
			Range		515- 630	525- 650	
			Sample Size	0	42	7	0
		F	Mean Length	513	537	567	
			Std. Error	17	3	9	
			Range	480- 530	485- 600	510- 610	
			Sample Size	3	64	11	0

-continued-

Table 52. Mean length (mm) of chum salmon at the Aniak River sonar site based on escapement samples collected with a beach seine (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1977 (cont.)	Season [b]	M	Mean Length	553	585	615	623
			Range	530- 575	505- 705	525- 695	610- 630
			Sample Size	2	269	155	2
		F	Mean Length	531	545	568	556
			Range	480- 570	485- 670	475- 665	510- 575
			Sample Size	12	291	115	3
	Grand Total [c]	M	Mean Length	552	586	605	610
			Range	505- 585	505- 705	525- 695	580- 640
			Sample size	10	462	263	7
		F	Mean Length	537	551	568	568
			Range	475- 610	470- 670	475- 665	535- 590
			Sample size	30	528	234	7

a For the 1995 "Season" the mean lengths are weighted by the sample size.

b "Season" mean lengths are weighted by the escapement passage in each stratum.

c "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 53. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1991	6/19, 23, 26- 7/3	159	M	0	0.0	42	9.4	269	59.7	6	1.3	317	70.4
	(6/26 - 7/3)		F	0	0.0	31	6.9	102	22.6	0	0.0	133	29.6
			Subtotal	0	0.0	73	16.3	370	82.3	6	1.3	450	100.0
	7/7 - 8	138	M	0	0.0	435	26.8	670	41.3	11	0.7	1,116	68.8
	(7/7 - 13)		F	23	1.4	258	15.9	224	13.8	0	0.0	506	31.2
			Subtotal	23	1.4	693	42.7	894	55.1	11	0.7	1,622	100.0
	7/14 - 15	134	M	35	2.2	472	29.9	272	17.2	0	0.0	778	49.3
	(7/14 - 20)		F	58	3.7	518	32.8	224	14.2	0	0.0	801	50.7
			Subtotal	93	5.9	990	62.7	496	31.4	0	0.0	1,579	100.0
	7/21	129	M	17	1.6	421	38.8	152	14.0	0	0.0	589	54.3
	(7/21 - 27)		F	34	3.1	328	30.2	135	12.4	0	0.0	496	45.7
			Subtotal	51	4.7	749	69.0	286	26.4	0	0.0	1,085	100.0
	7/28 - 30	145	M	0	0.0	508	40.0	193	15.2	0	0.0	701	55.2
	(7/28 - 8/3)		F	36	2.8	411	32.4	123	9.7	0	0.0	569	44.8
			Subtotal	36	2.8	919	72.4	316	24.9	0	0.0	1,270	100.0
	8/4 - 6	148	M	0	0.0	306	30.4	54	5.4	0	0.0	360	35.8
	(8/4 - 10)		F	81	8.1	488	48.6	74	7.4	0	0.0	645	64.2
			Subtotal	81	8.1	794	79.0	129	12.8	0	0.0	1,005	100.0
	8/11 - 13	153	M	3	0.7	93	20.3	15	3.3	0	0.0	111	24.2
	(8/11 - 17)		F	24	5.2	281	61.4	42	9.2	0	0.0	346	75.8
			Subtotal	27	5.9	373	81.7	57	12.5	0	0.0	457	100.0
	8/18 - 21	77	M	0	0.0	48	23.4	13	6.5	0	0.0	62	29.9
	(8/18 - 9/14)		F	11	5.2	116	55.8	19	9.1	0	0.0	145	70.1
			Subtotal	11	5.2	164	79.2	32	15.6	0	0.0	207	100.0
	Season	1,083	M	55	0.7	2,325	30.3	1,638	21.3	17	0.2	4,034	52.6
			F	266	3.5	2,431	31.7	943	12.3	0	0.0	3,641	47.4
			Total	322	4.2	4,755	62.0	2,581	33.6	17	0.2	7,675	100.0
1992	6/25 - 27	133	M	0	0.0	16	8.3	120	61.7	6	3.0	142	72.9
	(6/25 - 27)		F	0	0.0	16	8.3	37	18.8	0	0.0	53	27.1
			Subtotal	0	0.0	32	16.6	157	80.5	6	3.0	195	100.0
	6/28, 29	144	M	0	0.0	148	15.3	544	56.3	41	4.2	732	75.7
	(6/28 - 7/4)		F	0	0.0	80	8.3	155	16.0	0	0.0	235	24.3
			Subtotal	0	0.0	228	23.6	699	72.3	41	4.2	967	100.0
	7/5 - 6	136	M	0	0.0	205	14.7	553	39.7	10	0.7	768	55.1
	(7/5 - 11)		F	0	0.0	235	16.9	369	26.5	21	1.5	625	44.9
			Subtotal	0	0.0	440	31.6	922	66.2	31	2.2	1,393	100.0
	7/12 - 13	151	M	0	0.0	477	21.2	894	39.7	74	3.3	1,446	64.2
	(7/12 - 18)		F	0	0.0	387	17.2	403	17.9	16	0.7	806	35.8
			Subtotal	0	0.0	865	38.4	1,297	57.6	90	4.0	2,252	100.0
	7/20 - 21	153	M	0	0.0	643	21.6	429	14.4	60	2.0	1129	37.9
	(7/19 - 25)		F	39	1.3	1111	37.3	700	23.5	0	0.0	1850	62.1
			Subtotal	39	1.3	1755	58.9	1129	37.9	60	2.0	2,979	100.0
	7/27 - 28	153	M	12	0.7	405	22.9	209	11.8	12	0.7	635	35.9
	(7/26 - 8/1)		F	12	0.7	763	43.1	359	20.3	0	0.0	1,135	64.1
			Subtotal	25	1.4	1,168	66.0	568	32.1	12	0.7	1,770	100.0

- continued -

Table 53. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1992 (cont.)	8/3 - 4, 6 (8/2 - 8)	151	M	0	0.0	271	29.1	90	9.7	0	0.0	362	38.8
			F	28	3.0	404	43.3	139	14.9	0	0.0	570	61.2
			Subtotal	28	3.0	675	72.4	229	24.6	0	0.0	932	100.0
	8/9 - 11 (8/9 - 15)	151	M	0	0.0	100	21.9	21	4.6	0	0.0	121	26.5
			F	18	4.0	265	58.3	51	11.3	0	0.0	334	73.5
			Subtotal	18	4.0	365	80.2	72	15.9	0	0.0	455	100.0
	8/16 - 18, 24, 31 (8/16 - 31)	34	M	0	0.0	71	29.4	7	2.9	0	0.0	78	32.4
			F	7	2.9	127	52.9	28	11.8	0	0.0	162	67.6
			Subtotal	7	2.9	198	82.3	35	14.7	0	0.0	240	100.0
	Season	1,206	M	12	0.1	2,337	20.9	2,868	25.6	203	1.8	5,412	48.4
			F	104	0.9	3,389	30.3	2,242	20.0	37	0.3	5,771	51.6
			Total	117	1.0	5,726	51.2	5,110	45.7	239	2.1	11,183	100.0
1993	6/18- 19, 21- 26 (6/12- 26)	51	M	0	0.0	3	5.9	28	49.0	12	21.6	44	76.5
			F	0	0.0	1	2.0	10	17.6	2	3.9	13	23.5
			Subtotal	0	0.0	5	7.9	38	66.6	15	25.5	57	100.0
	6/27 - 30; 7/1 (6/27 - 7/3)	150	M	0	0.0	39	8.0	237	48.0	72	14.7	349	70.7
			F	0	0.0	20	4.0	89	18.0	36	7.3	144	29.3
			Total	0	0.0	59	12.0	325	66.0	108	22.0	493	100.0
	7/5- 6 (7/4 - 10)	154	M	0	0.0	243	14.9	636	39.0	127	7.8	1,006	61.7
			F	0	0.0	179	11.0	360	22.1	85	5.2	624	38.3
			Total	0	0.0	422	25.9	996	61.1	212	13.0	1,630	100.0
	7/11 - 12 (7/11 - 17)	148	M	0	0.0	431	14.2	1,107	36.5	164	5.4	1,702	56.1
			F	0	0.0	388	12.8	922	30.4	21	0.7	1,331	43.9
			Total	0	0.0	819	27.0	2,029	66.9	185	6.1	3,033	100.0
	7/18, 21 (7/18 - 24)	144	M	0	0.0	596	16.0	1,239	33.3	78	2.1	1,913	51.4
			F	78	2.1	700	18.8	983	26.4	52	1.4	1,809	48.6
			Total	78	2.1	1,295	34.8	2,222	59.7	130	3.5	3,722	100.0
	7/25 (7/25 - 31)	146	M	17	0.7	449	18.5	699	28.8	0	0.0	1,163	47.9
			F	34	1.4	599	24.7	599	24.7	34	1.4	1,264	52.1
			Total	51	2.1	1,048	43.2	1,298	53.5	34	1.4	2,427	100.0
	8/1 - 2 (8/1 - 7)	146	M	11	0.7	296	18.5	274	17.1	11	0.7	592	37.0
			F	77	4.8	570	35.6	350	21.9	11	0.7	1,008	63.0
			Total	88	5.5	866	54.1	624	39.0	22	1.4	1,600	100.0
	8/8 - 11 (8/8 - 14)	146	M	3	0.7	48	9.6	24	4.8	0	0.0	75	15.1
			F	27	5.5	273	54.8	120	24.0	3	0.7	424	85.0
			Total	31	6.2	321	64.4	144	28.8	3	0.7	499	100.1
	8/15 - 17 (8/15 - 21)	47	M	0	0.0	18	8.5	13	6.4	0	0.0	31	14.9
			F	18	8.5	101	48.9	57	27.7	0	0.0	176	85.1
			Total	18	8.5	119	57.4	71	34.1	0	0.0	207	100.0
	8/22 - 28; 9/1, 8 - 9 (8/22 - 9/10)	31	M	0	0.0	4	3.2	4	3.2	0	0.0	9	6.5
			F	18	12.9	61	45.2	48	35.5	0	0.0	127	93.5
			Total	18	12.9	66	48.4	53	38.7	0	0.0	136	100.0
	Season	1,163	M	32	0.2	2,127	15.4	4,261	30.9	465	3.4	6,882	49.9
			F	252	1.8	2,893	21.0	3,539	25.6	245	1.8	6,922	50.1
			Total	283	2.1	5,020	36.4	7,800	56.5	710	5.1	13,804	100.0

- continued -

Table 53. Age and sex of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1994	6/29 - 7/5	176	M	0	0.0	168	13.1	632	49.4	73	5.7	872	68.2
	(6/29 - 7/9)		F	0	0.0	81	6.3	284	22.2	43	3.4	407	31.8
			Subtotal	0	0.0	248	19.4	916	71.6	116	9.1	1,279	100.0
	7/10 - 11	133	M	0	0.0	631	18	1,237	35.3	186	5.3	2,054	58.6
	(7/10 - 16)		F	0	0.0	449	12.8	869	24.8	133	3.8	1,451	41.4
			Subtotal	0	0.0	1080	30.8	2,107	60.1	319	9.1	3,505	100.0
	7/17 - 18	142	M	0	0.0	1,464	26.1	1,184	21.1	118	2.1	2,766	49.3
	(7/17 - 23)		F	0	0.0	1,302	23.2	1,380	24.6	157	2.8	2,844	50.7
			Subtotal	0	0.0	2,766	49.3	2,564	45.7	275	4.9	5,610	100.0
	7/24	137	M	0	0.0	977	26.3	461	12.4	26	0.7	1,464	39.4
	(7/24 - 30)		F	0	0.0	1,571	42.3	676	18.2	0	0.0	2,251	60.6
			Subtotal	0	0.0	2,548	68.6	1,137	30.6	26	0.7	3,715	100.0
	7/31 - 8/2	150	M	16	1.3	336	27.3	107	8.7	9	0.7	467	38.0
	(7/31 - 8/6)		F	41	3.3	574	46.7	147	12.0	0	0.0	762	62.0
			Subtotal	57	4.6	909	74.0	254	20.7	9	0.7	1,229	100.0
	8/7 - 10, 14 - 17	113	M	0	0.0	85	16.8	54	10.6	0	0.0	139	27.4
	21; 9/4 - 5, 7		F	31	6.2	256	50.4	81	15.9	0	0.0	368	72.6
	(8/7 - 9/11)		Subtotal	31	6.2	341	67.2	134	26.5	0	0.0	507	100.0
	Season	851	M	16	0.1	3,660	23.1	3,674	23.2	411	2.6	7,762	49.0
			F	72	0.5	4,232	26.7	3,437	21.7	334	2.1	8,083	51.0
			Total	88	0.6	7,892	49.8	7,112	44.9	745	4.7	15,845	100.0
	Grand Total [c]	4,303	M	115	0.2	10,448	21.5	12,441	25.6	1,096	2.3	24,089	49.7
			F	694	1.4	12,945	26.7	10,161	20.9	615	1.3	24,418	50.3
			Total	809	1.7	23,393	48.2	22,601	46.6	1,711	3.5	48,507	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals.

Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991	6/19, 23, 26-7/3 (6/26 - 7/3)	M	Mean Length		583	601	625
			Std. Error		9	3	15
			Range		490- 620	530- 685	610- 640
			Sample Size	0	15	95	2
		F	Mean Length		554	571	
			Std. Error		7	5	
			Range		525- 590	480- 635	
			Sample Size	0	11	36	0
	7/7 - 8 (7/7 - 13)	M	Mean Length		571	583	550
			Std. Error		5	4	-
			Range		480- 630	525- 660	550- 550
			Sample Size	0	37	57	1
		F	Mean Length	528	543	548	
			Std. Error	13	5	6	
			Range	515- 540	485- 585	505- 585	
			Sample Size	2	22	19	0
	7/14 - 15 (7/14 - 20)	M	Mean Length	577	569	583	
			Std. Error	15	5	5	
			Range	555- 605	505- 665	540- 620	
			Sample Size	3	40	23	0
		F	Mean Length	509	540	557	
			Std. Error	17	4	5	
			Range	450- 550	490- 585	505- 595	
			Sample Size	5	44	19	0
	7/21 (7/21 - 27)	M	Mean Length	520	548	559	
			Std. Error	15	4	7	
			Range	505- 535	480- 605	510- 625	
			Sample Size	2	50	18	0
		F	Mean Length	515	528	524	
			Std. Error	17	4	7	
			Range	485- 550	475- 590	480- 585	
			Sample Size	4	39	15	0
	7/28 - 30 (7/28 - 8/3)	M	Mean Length		537	548	
			Std. Error		3	6	
			Range		490- 585	505- 600	
			Sample Size	0	57	22	0
		F	Mean Length	510	505	529	
			Std. Error	16	4	6	
			Range	470- 545	450- 570	470- 565	
			Sample Size	4	47	14	0

- continued -

Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991 (cont.)	8/4 - 6 (8/4 - 10)	M	Mean Length		533	553	
			Std. Error		5	11	
			Range		400- 605	490- 580	
			Sample Size	0	45	8	0
		F	Mean Length	485	500	515	
			Std. Error	7	3	6	
			Range	440- 525	440- 550	475- 545	
			Sample Size	12	72	11	0
	8/11 - 13 (8/11 - 17)	M	Mean Length	450	512	538	
			Std. Error	-	6	26	
			Range	450- 450	430- 580	475- 630	
			Sample Size	1	31	5	0
		F	Mean Length	463	480	491	
			Std. Error	11	3	7	
			Range	430- 525	430- 555	445- 520	
			Sample Size	8	94	14	0
	8/18 - 21 (8/18 - 9/14)	M	Mean Length		508	500	
			Std. Error		10	18	
			Range		415- 580	450- 550	
			Sample Size	0	18	5	0
		F	Mean Length	465	477	469	
			Std. Error	12	4	9	
			Range	435- 490	425- 530	440- 510	
			Sample Size	4	43	7	0
	Season	M	Mean Length	552	550	577	576
			Range	450- 605	400- 665	450- 685	550- 640
			Sample size	6	293	233	3
		F	Mean Length	498	515	540	
			Range	430- 550	425- 590	440- 635	
			Sample size	39	372	135	0
1992	6/25 - 27 (6/25 -27)	M	Mean Length		593	601	617
			Std. Error		5	3	9
			Range		566- 623	457- 673	591- 631
			Sample Size	0	11	82	4
		F	Mean Length		577	565	
			Std. Error		9	4	
			Range		503- 618	527- 608	
			Sample Size	0	11	25	0

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Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 3 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992 (cont.)	6/28, 29 (6/28 - 7/4)	M	Mean Length		599	594	612
			Std. Error		6	3	10
			Range		547- 659	517- 648	590- 644
			Sample Size	0	22	81	6
		F	Mean Length		559	573	
			Std. Error		10	4	
			Range		477- 624	532- 624	
			Sample Size	0	12	23	0
	7/5 - 6 (7/5 - 11)	M	Mean Length		591	600	602
			Std. Error		6	3	-
			Range		538- 641	546- 658	602- 602
			Sample Size	0	20	54	1
		F	Mean Length		560	566	560
			Std. Error		4	4	12
			Range		524- 604	529- 608	548- 571
			Sample Size	0	23	36	2
	7/12 - 13 (7/12 - 18)	M	Mean Length		563	589	578
			Std. Error		7	6	7
			Range		451- 627	511- 890	551- 590
			Sample Size	0	32	60	5
		F	Mean Length		553	550	555
			Std. Error		6	5	-
			Range		495- 620	452- 589	555- 555
			Sample Size	0	26	27	1
	7/20 - 21 (7/19 - 25)	M	Mean Length		564	557	570
			Std. Error		6	7	15
			Range		505- 660	440- 605	555- 600
			Sample Size	0	33	22	3
		F	Mean Length	518	537	548	
			Std. Error	3	4	4	
			Range	515- 520	480- 650	455- 585	
			Sample Size	2	57	36	0
	7/27 - 28 (7/26 - 8/1)	M	Mean Length	505	545	560	635
			Std. Error	-	4	8	-
			Range	505- 505	505- 605	500- 630	635- 635
			Sample Size	1	35	18	1
		F	Mean Length	500	523	533	
			Std. Error	-	3	5	
			Range	500- 500	425- 590	470- 595	
			Sample Size	1	66	31	0

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Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 4 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992 (cont.)	8/3 - 4, 6 (8/2 - 8)	M	Mean Length		534	542	
			Std. Error		4	6	
			Range		465- 589	511- 571	
			Sample Size	0	39	13	0
		F	Mean Length	504	515	522	
			Std. Error	7	3	6	
			Range	487- 518	463-574	482- 566	
			Sample Size	4	58	20	0
	8/9 - 11 (8/9 - 15)	M	Mean Length		530	540	
			Std. Error		5	12	
			Range		435- 582	509- 575	
			Sample Size	0	33	7	0
		F	Mean Length	485	515	512	
			Std. Error	7	3	6	
			Range	454- 500	472- 616	458- 550	
			Sample Size	6	88	17	0
	8/16-18, 24, 31 (8/16 - 31)	M	Mean Length		538	537	
			Std. Error		10	-	
			Range		498- 590	537- 537	
			Sample Size	0	10	1	0
		F	Mean Length	464	496	513	
			Std. Error	0	5	6	
			Range	464- 464	468-544	500- 526	
			Sample Size	1	18	4	0
	Season	M	Mean Length	505	565	584	588
			Range	505- 505	435- 660	440- 890	551- 644
			Sample size	1	235	338	20
		F	Mean Length	502	532	548	558
			Range	545- 520	425- 650	452- 624	548- 571
			Sample size	14	359	219	3
1993	6/18-19, 21-26 (6/12- 26)	M	Mean Length		563	591	602
			Std. Error		19	4	8
			Range		540- 600	555- 630	560-640
			Sample Size	0	3	25	11
		F	Mean Length		540	555	555
			Std. Error		-	8	35
			Range		540- 540	530- 595	520- 590
			Sample Size	0	1	9	2

- continued -

Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 5 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1993 (cont.)	6/27 - 30; 7/1 (6/27 - 7/3)	M	Mean Length		574	584	600
			Std. Error		7	3	6
			Range		540- 610	515- 650	545- 650
			Sample Size	0	12	72	22
		F	Mean Length		532	555	559
			Std. Error		9	5	10
			Range		490- 550	485- 610	515- 620
			Sample Size	0	6	27	11
	7/5- 6 (7/4 - 10)	M	Mean Length		561	570	587
			Std. Error		5	4	8
			Range		484- 605	515- 680	555- 645
			Sample Size	0	23	60	12
		F	Mean Length		552	553	543
			Std. Error		5	3	6
			Range		525- 595	525- 595	510- 560
			Sample Size	0	17	34	8
	7/11 - 12 (7/11 - 17)	M	Mean Length		561	572	559
			Std. Error		6	3	8
			Range		515- 610	530- 635	525- 590
			Sample Size	0	21	54	8
		F	Mean Length		539	539	570
			Std. Error		7	3	-
			Range		500- 615	485- 590	570- 570
			Sample Size	0	19	45	1
	7/18, 21 (7/18 - 24)	M	Mean Length		560	575	600
			Std. Error		8	5	13
			Range		500- 625	510- 635	580- 625
			Sample Size	0	23	48	3
		F	Mean Length	507	533	534	543
			Std. Error	20	5	5	18
			Range	480- 545	490- 585	485- 590	525- 560
			Sample Size	3	27	38	2
	7/25 (7/25 - 31)	M	Mean Length	480	543	559	
			Std. Error	-	5	4	
			Range	480-480	490- 585	490- 625	
			Sample Size	1	27	42	0
		F	Mean Length	478	523	525	503
			Std. Error	13	5	4	18
			Range	465- 490	475- 595	460- 570	485- 520
			Sample Size	2	36	36	2

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Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 6 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1993 (cont.)	8/1 - 2 (8/1 - 7)	M	Mean Length	515	527	541	565
			Std. Error	-	4	6	-
			Range	515- 515	460- 565	480- 600	565- 565
			Sample Size	1	27	25	1
		F	Mean Length	501	509	508	500
			Std. Error	15	4	5	-
			Range	450- 560	445- 585	435- 580	500- 500
			Sample Size	7	52	32	1
	8/8 - 11 (8/8 - 14)	M	Mean Length	475	520	539	
			Std. Error	-	7	8	
			Range	475- 475	475- 570	505- 565	
			Sample Size	1	14	7	0
		F	Mean Length	469	500	513	545
			Std. Error	8	3	5	-
			Range	430- 505	460- 565	425- 570	545- 545
			Sample Size	8	80	35	1
	8/15 - 17 (8/15 - 21)	M	Mean Length		534	598	
			Std. Error		6	9	
			Range		525- 550	580- 610	
			Sample Size	0	4	3	0
		F	Mean Length	474	492	514	
			Std. Error	15	4	6	
			Range	430- 495	460- 525	485- 550	
			Sample Size	4	23	13	0
	8/22-28; 9/1, 8 - 9 (8/22 - 9/10)	M	Mean Length		530	560	
			Std. Error		-	-	
			Range		530 -530	560- 560	
			Sample Size	0	1	1	0
		F	Mean Length	476	498	493	
			Std. Error	5	9	8	
			Range	470- 490	445- 580	430- 530	
			Sample Size	4	13	11	0
	Season	M	Mean Length	492	551	569	581
			Range	475- 515	460- 625	480- 680	525- 650
			Sample size	3	155	337	57
		F	Mean Length	493	523	532	540
			Range	430- 560	445- 615	425- 610	485- 620
			Sample size	28	274	280	28

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Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 7 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994	6/29 - 7/5 (6/29 - 7/9)	M	Mean Length		578	597	594
			Std. Error		7	3	12
			Range		515- 655	535- 655	550- 655
			Sample Size	0	23	87	10
		F	Mean Length		529	555	556
			Std. Error		6	4	11
			Range		500- 565	510- 625	515- 590
			Sample Size	0	11	39	6
	7/10 - 11 (7/10 - 16)	M	Mean Length		577	587	588
			Std. Error		6	5	9
			Range		515- 630	490- 560	550- 610
			Sample Size	0	24	47	7
		F	Mean Length		547	549	551
			Std. Error		7	5	12
			Range		495- 590	485- 600	530- 590
			Sample Size	0	17	33	5
	7/17 - 18 (7/17 - 23)	M	Mean Length		564	573	578
			Std. Error		5	5	19
			Range		510- 640	530- 620	540- 600
			Sample Size	0	37	30	3
		F	Mean Length		525	540	531
			Std. Error		5	4	3
			Range		465- 605	490- 595	525- 540
			Sample Size	0	33	35	4
	7/24 (7/24 - 30)	M	Mean Length		562	568	585
			Std. Error		5	7	-
			Range		510- 650	525- 620	585- 585
			Sample Size	0	36	17	1
		F	Mean Length		532	535	
			Std. Error		4	6	
			Range		435- 595	490- 585	
			Sample Size	0	58	25	0
	7/31 - 8/2 (7/31 - 8/6)	M	Mean Length	543	558	570	525
			Std. Error	18	5	10	-
			Range	525- 560	475- 630	520- 630	525- 525
			Sample Size	2	41	13	1
		F	Mean Length	516	528	541	
			Std. Error	8	3	6	
			Range	500- 540	440- 595	505- 615	
			Sample Size	5	70	18	0

- continued -

Table 54. Mean length (mm) of chum salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 8 of 8).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994 (cont.)	8/7-10, 14-17 21; 9/4-5, 7 (8/7 - 9/11)	M	Mean Length		553	554	
			Std. Error		7	8	
			Range		515- 605	520- 605	
			Sample Size	0	19	12	0
		F	Mean Length	486	515	517	
			Std. Error	9	4	5	
			Range	465- 535	430- 565	490- 565	
			Sample Size	7	57	18	0
	Season	M	Mean Length	543	566	581	585
			Range	525- 560	475- 655	490- 655	525- 655
			Sample size	2	180	206	22
		F	Mean Length	503	530	542	542
			Range	465- 540	430- 605	484- 625	515- 590
			Sample size	12	246	168	15
	Grand Total [b]	M	Mean Length	523	558	578	582
			Range	450- 605	400- 665	490- 890	551- 655
			Sample size	12	863	1,114	102
		F	Mean Length	499	525	541	547
			Range	430- 560	425- 650	425- 635	440- 635
			Sample size	552	1394	1,207	46

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 55. Age and sex of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1992	6/24, 25	153	M	0	0.0	124	9.2	730	54.2	88	6.5	942	69.9
	(6/24- 26)		F	0	0.0	62	4.6	317	23.5	27	2.0	405	30.1
			Subtotal	0	0.0	186	13.8	1,047	77.7	114	8.5	1,347	100.0
	6/28	145	M	0	0.0	422	13.1	1,397	43.4	45	1.4	1,863	57.9
	(6/28 - 7/4)		F	0	0.0	222	6.9	1,088	33.8	45	1.4	1,355	42.1
			Subtotal	0	0.0	644	20	2,484	77.2	90	2.8	3,218	100.0
	7/5	152	M	0	0.0	927	16.4	1,453	25.7	187	3.3	2,567	45.4
	(7/5 - 11)		F	0	0.0	1,374	24.3	1,634	28.9	74	1.3	3,088	54.6
			Subtotal	0	0.0	2,302	40.7	3,088	54.6	260	4.6	5,655	100.0
	7/13	155	M	0	0.0	1,426	24.5	786	13.5	151	2.6	2,363	40.6
	(7/12 - 18)		F	111	1.9	2,328	40.0	937	16.1	76	1.3	3,458	59.4
			Subtotal	111	1.9	3,755	64.5	1,723	29.6	227	3.9	5,821	100.0
	7/19	151	M	0	0.0	1,541	27.2	640	11.3	0	0.0	2,175	38.4
	(7/19 - 25)		F	187	3.3	2,362	41.7	940	16.6	0	0.0	3,489	61.6
			Subtotal	187	3.3	3,902	68.9	1,580	27.9	0	0.0	5,664	100.0
	7/27	152	M	0	0.0	1,505	30.9	385	7.9	0	0.0	1,889	38.8
	(7/26 - 8/1)		F	97	2.0	2,371	48.7	511	10.5	0	0.0	2,980	61.2
			Subtotal	97	2.0	3,876	79.6	896	18.4	0	0.0	4,869	100.0
	8/3,4	151	M	19	0.7	730	26.5	127	4.6	0	0.0	875	31.8
	(8/2 - 8)		F	127	4.6	1,569	57.0	182	6.6	0	0.0	1,878	68.2
			Subtotal	146	5.3	2,299	83.5	308	11.2	0	0.0	2,753	100.0
	8/10-11, 14-15	91	M	0	0.0	199	17.6	62	5.5	0	0.0	261	23.1
	(8/9 - 15)		F	25	2.2	757	67.0	75	6.6	12	1.1	869	76.9
			Subtotal	25	2.2	956	84.6	137	12.1	12	1.1	1,130	100.0
	8/16, 17, 20	48	M	0	0.0	82	25.0	7	2.1	0	0.0	88	27.1
	(8/16 - 20)		F	0	0.0	217	66.7	20	6.2	0	0.0	238	72.9
			Subtotal	0	0.0	299	91.7	27	8.3	0	0.0	326	100.0
	Season	1,198	M	19	0.1	6,954	22.6	5,586	18.1	471	1.5	13,024	42.3
			F	546	1.8	11,263	36.6	5,704	18.5	234	0.8	17,759	57.7
			Total	566	1.8	18,218	59.2	11,290	36.7	704	2.3	30,783	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 56. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992	6/24, 25 (6/24- 26)	M	Mean Length		585	593	595
			Std. Error		7	3	8
			Range		550-640	515-650	555-630
			Sample Size	0	14	83	10
		F	Mean Length		534	561	557
			Std. Error		6	4	12
			Range		505-550	505-625	535-575
			Sample Size	0	7	36	3
	6/28 (6/28 - 7/4)	M	Mean Length		570	582	603
			Std. Error		6	4	33
			Range		510-610	520-650	570-635
			Sample Size	0	19	63	2
		F	Mean Length		541	552	540
			Std. Error		8	4	10
			Range		490-575	490-605	530-550
			Sample Size	0	10	49	2
	7/5 (7/5 - 11)	M	Mean Length		579	582	552
			Std. Error		7	5	11
			Range		500-655	525-650	530-595
			Sample Size	0	25	39	5
		F	Mean Length		518	542	560
			Std. Error		4	4	45
			Range		480-575	485-590	515-605
			Sample Size	0	37	44	2
	7/13 (7/12 - 18)	M	Mean Length		556	570	579
			Std. Error		6	6	16
			Range		490-630	500-630	530-600
			Sample Size	0	38	21	4
		F	Mean Length	500	517	528	538
			Std. Error	10	3	5	18
			Range	485-520	460-590	490-580	520-555
			Sample Size	3	62	25	2
	7/19 (7/19 - 25)	M	Mean Length		547	557	
			Std. Error		5	8	
			Range		490-620	500-610	
			Sample Size	0	41	17	0
		F	Mean Length	496	513	513	
			Std. Error	12	4	4	
			Range	465-540	435-570	480-550	
			Sample Size	5	63	25	0

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Table 56. Mean length (mm) of chum salmon at the Kwethluk River weir based on escapement samples collected with a fish trap (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992 (cont.)	7/27 (7/26 - 8/1)	M	Mean Length		538	544	
			Std. Error		4	9	
			Range		470-590	500-585	
			Sample Size	0	47	12	0
		F	Mean Length	490	513	511	
			Std. Error	15	4	8	
			Range	475-520	380-580	435-555	
			Sample Size	3	74	16	0
	8/3,4 (8/2 - 8)	M	Mean Length	480	530	546	
			Std. Error	-	5	11	
			Range	480-480	460-600	500-580	
			Sample Size	1	40	7	0
		F	Mean Length	490.7	498	523	
			Std. Error	4.29	3	9	
			Range	470-505	460-590	475-560	
			Sample Size	7	86	10	0
	8/10-11, 14-15 (8/9 - 15)	M	Mean Length		514	527	
			Std. Error		8	26	
			Range		475-565	440-580	
			Sample Size	0	16	5	0
		F	Mean Length	497.5	487	500	560
			Std. Error	17.5	3	10	-
			Range	480-515	450-540	470-540	560-560
			Sample Size	2	61	6	1
	8/16, 17, 20 (8/16 - 20)	M	Mean Length		514	515	
			Std. Error		10	-	
			Range		450-595	515-515	
			Sample Size	0	12	1	0
		F	Mean Length		489	525	
			Std. Error		5	26	
			Range		435-560	475-565	
			Sample Size	0	32	3	0
	Season	M	Mean Length	480	550	575	573
			Range	480- 480	450- 655	440- 650	530- 635
			Sample size	1	252	248	21
		F	Mean Length	495	511	534	548
			Range	465- 540	380- 590	435-625	515- 605
			Sample size	20	432	214	10

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 57. Age and sex of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1997	6/19, 22	26	M	0	0.0	0	0.0	1,188	73.1	0	0.0	1,188	73.1
	(6/11 - 22)		F	0	0.0	63	3.8	375	23.1	0	0.0	438	26.9
			Subtotal	0	0.0	63	3.8	1,563	96.2	0	0.0	1,626	100.0
	6/24 - 26	68	M	0	0.0	106	4.4	1,203	50.0	0	0.0	1,309	54.4
	(6/23 - 6/26)		F	0	0.0	142	5.9	885	36.8	71	2.9	1,097	45.6
			Subtotal	0	0.0	248	10.3	2,088	86.8	71	2.9	2,406	100.0
	6/28, 30	139	M	0	0.0	678	8.6	4,071	51.8	170	2.2	4,920	62.6
	(6/27 - 7/2)		F	0	0.0	396	5.1	2,545	32.4	0	0.0	2,940	37.4
			Subtotal	0	0.0	1,074	13.7	6,616	84.2	170	2.2	7,860	100.0
	7/5 - 6	107	M	0	0.0	1,037	12.1	4,226	49.5	319	3.7	5,582	65.4
	(7/3 - 6)		F	0	0.0	877	10.3	2,073	24.3	0	0.0	2,950	34.6
			Subtotal	0	0.0	1,914	22.4	6,299	73.8	319	3.7	8,532	100.0
	7/8 - 9	96	M	0	0.0	842	15.6	2,526	46.9	0	0.0	3,368	62.5
	(7/7 - 11)		F	0	0.0	673	12.5	1,347	25.0	0	0.0	2,020	37.5
			Subtotal	0	0.0	1,515	28.1	3,873	71.9	0	0.0	5,388	100.0
	7/14 - 15	206	M	36	0.5	1,193	16.0	3,072	41.3	36	0.5	4,337	58.3
	(7/12 - 17)		F	36	0.5	1,084	14.6	1,952	26.2	36	0.5	3,109	41.7
			Subtotal	72	1.0	2,277	30.6	5,024	67.5	72	1.0	7,446	100.0
	7/21 - 23	188	M	0	0.0	1,890	24.5	2,054	26.6	82	1.1	4,025	52.1
	(7/18 - 25)		F	82	1.1	2,300	29.8	1,314	17.0	0	0.0	3,697	47.9
			Subtotal	82	1.1	4,190	54.3	3,368	43.6	82	1.1	7,722	100.0
	7/28 - 8/1	207	M	68	1.0	2,127	30.4	1,519	21.7	0	0.0	3,714	53.1
	(7/26 - 8/3)		F	135	1.9	1,925	27.6	1,182	16.9	34	0.5	3,276	46.9
			Subtotal	203	2.9	4,052	58.0	2,701	38.6	34	0.5	6,990	100.0
	8/5 - 8	27	M	82	3.7	900	40.8	164	7.4	0	0.0	1,145	51.9
	(8/4 - 9)		F	0	0.0	736	33.3	327	14.8	0	0.0	1,063	48.1
			Subtotal	82	3.7	1,636	74.1	491	22.2	0	0.0	2,208	100.0
	8/11- 12, 18- 19	32	M	31	3.1	251	25.0	156	15.6	0	0.0	438	43.8
	(8/10 - 21)		F	0	0.0	501	50.0	63	6.3	0	0.0	564	56.2
			Subtotal	31	3.1	752	75.0	219	21.9	0	0.0	1,002	100.0
	Season	1,096	M	217	0.4	9,023	17.6	20,180	39.4	607	1.2	30,027	58.7
			F	253	0.5	8,697	17.0	12,063	23.6	141	0.3	21,153	41.3
			Total	470	0.9	17,720	34.6	32,243	63.0	748	1.5	51,180	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 58. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997	6/19, 22 (6/11 - 22)	M	Mean Length			631	
			Std. Error			5	
			Range			575- 665	
			Sample Size	0	0	19	0
		F	Mean Length		569	578	
			Std. Error		-	7	
			Range		569- 569	559- 604	
			Sample Size	0	1	6	0
	6/24 - 26 (6/23 - 6/26)	M	Mean Length		580	620	
			Std. Error		5	5	
			Range		570- 585	565- 668	
			Sample Size	0	3	34	0
		F	Mean Length		581	587	597
			Std. Error		15	4	4
			Range		545- 610	543- 628	593- 600
			Sample Size	0	4	25	2
	6/28, 30 (6/27 - 7/2)	M	Mean Length		605	631	626
			Std. Error		9	4	34
			Range		557- 655	520- 700	562- 680
			Sample Size	0	12	72	3
		F	Mean Length		594	599	
			Std. Error		11	5	
			Range		562- 640	540- 677	
			Sample Size	0	7	45	0
	7/5 - 6 (7/3 - 6)	M	Mean Length		587	621	626
			Std. Error		7	4	9
			Range		550- 628	552- 690	605- 648
			Sample Size	0	13	53	4
		F	Mean Length		548	580	
			Std. Error		9	4	
			Range		487- 598	528- 624	
			Sample Size	0	11	26	0
	7/8 - 9 (7/7 - 11)	M	Mean Length		589	621	
			Std. Error		8	5	
			Range		542- 646	565- 695	
			Sample Size	0	15	45	0
		F	Mean Length		560	594	
			Std. Error		8	4	
			Range		483- 593	558- 635	
			Sample Size	0	12	24	0

- continued -

Table 58. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 (cont.)	7/14 - 15 (7/12 - 17)	M	Mean Length	520	579	601	597
			Std. Error	-	5	3	-
			Range	520- 520	510- 648	515- 680	597- 597
			Sample Size	1	33	85	1
		F	Mean Length	523	549	573	575
			Std. Error	-	4	4	-
			Range	523- 523	500- 590	510- 685	575- 575
			Sample Size	1	30	54	1
	7/21 - 23 (7/18 - 25)	M	Mean Length		577	602	595
			Std. Error		4	5	-
			Range		527- 650	515- 680	595- 595
			Sample Size	0	46	50	2
		F	Mean Length	567	554	575	
			Std. Error	57	3	4	
			Range	510- 623	503- 608	525- 615	
			Sample Size	2	56	32	0
	7/28 - 8/1 (7/26 - 8/3)	M	Mean Length	505	577	602	
			Std. Error	20	4	5	
			Range	485- 525	505- 670	540- 665	
			Sample Size	2	63	45	0
		F	Mean Length	533	543	558	610
			Std. Error	27	4	4	-
			Range	485- 605	480- 608	490- 615	610- 610
			Sample Size	4	57	35	1
	8/5 - 8 (8/4 - 9)	M	Mean Length	580	585	596	
			Std. Error	-	11	28	
			Range	580- 580	527- 638	568- 624	
			Sample Size	1	11	2	0
		F	Mean Length		544	550	
			Std. Error		9	16	
			Range		500- 596	521- 578	
			Sample Size	0	9	4	0
	8/11- 12, 18- 19 (8/10 - 21)	M	Mean Length	520	582	601	
			Std. Error	-	8	13	
			Range	520- 520	547- 620	560- 635	
			Sample Size	1	8	5	0
		F	Mean Length		520	560	
			Std. Error		6	20	
			Range		475- 580	540- 580	
			Sample Size	0	16	2	0

- continued -

Table 58. Mean length (mm) of chum salmon at the Kanektok River tower based on escapement samples collected with a beach seine (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	538	583	617	620
			Range	485- 580	505- 670	515- 700	562- 680
			Sample size	5	204	410	10
		F	Mean Length	542	550	581	594
			Range	485- 623	475- 640	490- 685	575- 610
			Sample size	7	203	253	4

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 59. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1990	6/28	17	M	0	0.0	88	35.3	103	41.2	0	0.0	190	76.5
	(6/28 - 7/2)		F	0	0.0	15	5.9	44	17.6	0	0.0	59	23.5
			Subtotal	0	0.0	103	41.2	146	58.8	0	0.0	249	100.0
	7/6, 10, 12	76	M	0	0.0	900	35.5	835	32.9	67	2.6	1,802	71.1
	(7/3 - 14)		F	0	0.0	433	17.1	299	11.8	0	0.0	733	28.9
			Subtotal	0	0.0	1,334	52.6	1,134	44.7	67	2.6	2,535	100.0
	7/17, 20, 21	45	M	0	0.0	1,289	35.6	564	15.6	81	2.2	1,934	53.3
	(7/15 - 24)		F	0	0.0	1,612	44.4	81	2.2	0	0.0	1,692	46.7
			Subtotal	0	0.0	2,901	80.0	645	17.8	81	2.2	3,626	100.0
	Season	138	M	0	0.0	2,278	35.5	1,501	23.4	147	2.3	3,926	61.3
			F	0	0.0	2,060	32.1	424	6.6	0	0.0	2,483	38.7
			Total	0	0.0	4,337	67.7	1,925	30.0	147	2.3	6,410	100.0
1991	7/7 - 10, 12	123	M	0	0.0	1,910	35.0	1,331	24.4	0	0.0	3,241	59.4
	(6/28 - 7/13)		F	0	0.0	1,462	26.8	753	13.8	0	0.0	2,215	40.6
			Subtotal	0	0.0	3,372	61.8	2,084	38.2	0	0.0	5,456	100.0
	7/14- 18, 20- 21	102	M	0	0.0	2,172	36.3	1,406	23.5	0	0.0	3,578	59.8
	(7/14 - 22)		F	0	0.0	1,406	23.5	999	16.7	0	0.0	2,406	40.2
			Subtotal	0	0.0	3,578	59.8	2,406	40.2	0	0.0	5,984	100.0
	7/23 - 25, 28	45	M	0	0.0	7,801	48.5	1,705	10.6	0	0.0	9,506	59.1
	(7/23 - 8/26)		F	0	0.0	5,356	33.3	1,222	7.6	0	0.0	6,579	40.9
			Subtotal	0	0.0	13,158	81.8	2,927	18.2	0	0.0	16,085	100.0
	Season	270	M	0	0.0	11,883	43.2	4,443	16.1	0	0.0	16,326	59.3
			F	0	0.0	8,225	29.9	2,975	10.8	0	0.0	11,199	40.7
			Total	0	0.0	20,108	73.1	7,417	26.9	0	0.0	27,525	100.0
1992[c]	(6/24 - 7/19)	0	M										
			F										
			Subtotal									12,633	
	7/22	195	M	0	0.0	415	8.2	1,767	34.9	51	1.0	2,233	44.1
	(7/20 - 25)		F	0	0.0	648	12.8	2,157	42.6	25	0.5	2,831	55.9
			Subtotal	0	0.0	1,063	21.0	3,925	77.5	76	1.5	5,064	100.0
	7/28- 29, 31	300	M	0	0.0	404	9.3	1,038	24.0	0	0.0	1,442	33.3
	(7/26 - 8/15)		F	0	0.0	1,009	23.3	1,860	43.0	14	0.3	2,884	66.7
			Subtotal	0	0.0	1,413	32.7	2,898	67.0	14	0.3	4,326	100.0
	Season	495	M										
			F										
			Total									22,023	
1993[c]	7/13 - 14	42	M	133	2.4	1,042	19.0	1,826	33.3	653	11.9	3,654	66.7
	(6/22 - 7/15)		F	0	0.0	521	9.5	1,041	19.0	263	4.8	1,825	33.3
			Subtotal	133	2.4	1,563	28.5	2,867	52.3	916	16.7	5,480	100.0

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Table 59. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1993 (cont.)	(7/16 - 22)	0	M										
			F										
			Subtotal									4,051	
	7/27 - 29	194	M	75	1.5	1,068	21.6	994	20.1	105	2.1	2,242	45.4
	(7/23 - 8/10)		F	0	0.0	1,171	23.7	1,453	29.4	74	1.5	2,698	54.6
			Subtotal	75	1.5	2,239	45.3	2,447	49.5	179	3.6	4,941	100.0
	Season	236	M										
			F										
			Total									14,472	
1994 [c]	7/1 - 3	49	M	0	0.0	421	22.4	807	42.9	115	6.1	1,343	71.4
	(6/22 - 7/5)		F	0	0.0	269	14.3	269	14.3	0	0.0	538	28.6
			Subtotal	0	0.0	690	36.7	1,076	57.2	115	6.1	1,881	100.0
	7/7 - 8, 10	158	M	0	0.0	3,270	33.5	1,851	19.0	247	2.5	5,368	55.1
	(7/6 - 13)		F	0	0.0	2,036	20.9	2,159	22.2	185	1.9	4,380	44.9
			Subtotal	0	0.0	5,306	54.4	4,010	41.1	432	4.4	9,748	100.0
	(7/14 - 8/15)	0	M										
			F										
			Subtotal									23,505	
	Season	207	M										
			F										
			Total									35,134	
1995 [c]	7/1	69	M	0	0.0	328	7.2	2,499	55.1	65	1.4	2,893	63.8
	(6/19 - 7/3)		F	0	0.0	263	5.8	1,184	26.1	196	4.3	1,642	36.2
			Subtotal	0	0.0	591	13.0	3,683	81.2	260	5.7	4,536	100.0
	7/6	75	M	0	0.0	144	4.0	1,533	42.7	0	0.0	1,676	46.7
	(7/4 - 8)		F	0	0.0	287	8.0	1,626	45.3	0	0.0	1,913	53.3
			Subtotal	0	0.0	431	12.0	3,158	88.0	0	0.0	3,589	100.0
	7/11 - 12	85	M	0	0.0	427	5.9	2,989	41.2	0	0.0	3,416	47.1
	(7/9 - 13)		F	0	0.0	1,109	15.3	2,646	36.5	85	1.2	3,841	52.9
			Subtotal	0	0.0	1,536	21.2	5,636	77.7	85	1.2	7,256	100.0
	7/15 - 16	51	M	133	2.0	1,200	17.6	3,067	45.1	0	0.0	4,400	64.7
	(7/14 - 19)		F	133	2.0	800	11.8	1,334	19.6	133	2.0	2,401	35.3
			Subtotal	267	3.9	2,000	29.4	4,401	64.7	133	2.0	6,801	100.0
	(7/20 - 8/28)	0	M										
			F										
			Subtotal									11,517	
	Season	280	M										
			F										
			Total									33,699	

-continued-

Table 59. Age and sex of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Esc.	0.2 %	0.3 Esc.	0.3 %	0.4 Esc.	0.4 %	0.5 Esc.	0.5 %	Total Esc.	Total %
1996	(6/19 - 7/3)	0	M										0.0
			F										0.0
			Subtotal									3,477	0.0
	7/7, 9	155	M	0	0.0	6,573	43.2	1,079	7.1	91	0.6	7,743	50.9
	(7/4 - 12)		F	0	0.0	5,296	34.8	1,961	12.9	198	1.3	7,455	49.0
			Subtotal	0	0.0	11,868	78.1	3,041	20.0	289	1.9	15,204	100.0
	(7/13 - 21)	0	M										
			F										
			Subtotal									8,008	
	7/22 - 23	156	M	0	0.0	5,858	43.6	1,035	7.7	175	1.3	7,067	52.6
	(7/19 - 8/23)		F	0	0.0	5,509	41.0	605	4.5	255	1.9	6,369	47.4
			Subtotal	0	0.0	11,367	84.6	1,639	12.2	430	3.2	13,436	100.0
	Season	311	M										
			F										
			Total									40,125	
1997	7/7 - 8	69	M	0	0.0	558	11.6	2,303	47.8	0	0.0	2,861	59.4
	(6/13 - 7/9)		F	0	0.0	279	5.8	1,675	34.8	0	0.0	1,954	40.6
			Subtotal	0	0.0	837	17.4	3,978	82.6	0	0.0	4,815	100.0
	7/12 - 15	187	M	18	0.5	333	10.2	1,402	42.8	18	0.5	1,770	54.0
	(7/10 - 17)		F	0	0.0	421	12.8	1,086	33.1	0	0.0	1,507	46.0
			Subtotal	18	0.5	754	23.0	2,488	75.9	18	0.5	3,277	100.0
	7/21 - 22	192	M	25	0.5	737	15.6	1,548	32.8	25	0.5	2,335	49.5
	(7/18 - 24)		F	24	0.5	1,057	22.4	1,303	27.6	0	0.0	2,384	50.5
			Subtotal	49	1.0	1,794	38.0	2,851	60.4	25	0.5	4,719	100.0
	7/28	78	M	0	0.0	1,208	26.9	1,437	32.0	0	0.0	2,645	59.0
	(7/25 - 9/6)		F	0	0.0	862	19.3	978	21.8	0	0.0	1,840	41.0
			Subtotal	0	0.0	2,070	46.2	2,415	53.8	0	0.0	4,485	100.0
	Season	526	M	42	0.3	2,836	16.4	6,691	38.7	42	0.2	9,611	55.6
			F	25	0.1	2,619	15.1	5,041	29.1	0	0.0	7,685	44.4
			Total	67	0.4	5,455	31.5	11,732	67.8	42	0.2	17,296	100.0
	Grand Total [d]	934	M	42	0.1	16,997	33.2	12,635	24.7	189	0.4	29,863	58.3
			F	25	0.0	12,903	25.2	8,439	16.5	0	0.0	21,368	41.7
			Total	67	0.1	29,900	58.4	21,074	41.1	189	0.4	51,231	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[d] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 60. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995 [a]	7/1	M	Mean Length		588	618	670
			Std. Error		9	5	-
			Range		570- 620	560- 690	670- 670
			Sample Size	0	5	38	1
		F	Mean Length		583	582	575
			Std. Error		10	9	8
			Range		560- 600	520- 690	560- 585
			Sample Size	0	4	18	3
	7/6	M	Mean Length		602	619	
			Std. Error		11	5	
			Range		580- 615	560- 665	
			Sample Size	0	3	32	0
		F	Mean Length		574	581	
			Std. Error		15	4	
			Range		530- 630	540- 640	
			Sample Size	0	6	34	0
	7/11 - 12	M	Mean Length		599	599	
			Std. Error		13	5	
			Range		575- 645	540- 655	
			Sample Size	0	5	35	0
		F	Mean Length		556	570	610
			Std. Error		9	4	-
			Range		485- 610	530- 615	610- 610
			Sample Size	0	13	31	1
	7/15 - 16	M	Mean Length	500	594	592	
			Std. Error	-	9	10	
			Range	500- 500	550- 620	500- 670	
			Sample Size	1	9	23	0
		F	Mean Length	520	554	557	530
			Std. Error	-	15	12	-
			Range	520- 520	510- 605	510- 625	530- 530
			Sample Size	1	6	10	1
1996 [a]	7/7, 9	M	Mean Length		613	616	605
			Std. Error		4	9	-
			Range		525- 705	550- 650	605- 605
			Sample Size	0	67	11	1
		F	Mean Length		566	588	583
			Std. Error		3	4	13
			Range		515- 635	560- 630	570- 595
			Sample Size	0	54	20	2

-continued-

Table 60. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996 (cont.)	7/22 - 23	M	Mean Length		612	621	605
			Std. Error		4	12	20
			Range		550- 675	520- 672	585- 625
			Sample Size	0	68	12	2
		F	Mean Length		570	571	593
			Std. Error		3	6	6
			Range		520- 648	553- 600	585- 605
			Sample Size	0	64	7	3
1997	7/7 - 8 (6/13 - 7/9)	M	Mean Length		589	614	
			Std. Error		14	5	
			Range		515- 630	570- 670	
			Sample Size	0	8	33	0
		F	Mean Length		548	584	
			Std. Error		15	4	
			Range		510- 580	545- 615	
			Sample Size	0	4	24	0
	7/12 - 15 (7/10 - 17)	M	Mean Length	495	595	614	640
			Std. Error	-	5	3	-
			Range	495- 495	545- 640	550- 695	640- 640
			Sample Size	1	19	80	1
		F	Mean Length		560	573	
			Std. Error		6	4	
			Range		505- 640	510- 640	
			Sample Size	0	24	62	0
	7/21 - 22 (7/18 - 24)	M	Mean Length	535	571	600	620
			Std. Error	-	5	5	-
			Range	535- 535	520- 625	515- 695	620- 620
			Sample Size	1	30	63	1
		F	Mean Length	510	553	567	
			Std. Error	-	4	3	
			Range	510- 510	500- 605	515- 620	
			Sample Size	1	43	53	0
	7/28 (7/25 - 9/6)	M	Mean Length		598	624	
			Std. Error		6	5	
			Range		550- 650	575- 680	
			Sample Size	0	21	25	0
		F	Mean Length		568	581	
			Std. Error		7	6	
			Range		500- 595	540- 640	
			Sample Size	0	15	17	0

-continued-

Table 60. Mean length (mm) of chum salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 (cont.)	Season [b]	M	Mean Length	518	589	613	628
			Range	495- 535	515- 650	515- 695	620- 640
			Sample Size	2	78	201	2
		F	Mean Length	510	558	577	
			Range	510- 510	500- 640	510- 640	
			Sample Size	1	86	156	0

[a] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.

[b] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 61. Age and sex of chum salmon from the District 1 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1984	6/18	207	M	0	0.0	1,262	21.7	1,962	33.8	140	2.4	3,364	58.0
	(6/18)		F	0	0.0	1,626	28.0	813	14.0	0	0.0	2,439	42.0
			Subtotal	0	0.0	2,887	49.8	2,775	47.8	140	2.4	5,803	100.0
	6/21	190	M	0	0.0	9,303	42.1	2,326	10.5	465	2.1	12,094	54.7
	(6/21)		F	0	0.0	9,070	41.1	698	3.2	233	1.1	10,000	45.3
			Subtotal	0	0.0	18,373	83.2	3,023	13.7	698	3.2	22,094	100.0
	6/25	197	M	459	0.5	48,943	53.3	2,322	2.5	1,395	1.5	53,118	57.9
	(6/25)		F	0	0.0	35,424	38.6	2,753	3.0	459	0.5	38,636	42.1
			Subtotal	459	0.5	84,367	91.9	5,075	5.5	1,854	2.0	91,773	100.0
	6/28	209	M	0	0.0	30,188	45.0	3,854	5.7	0	0.0	34,042	50.7
	(6/28)		F	0	0.0	29,546	44.0	3,533	5.3	0	0.0	33,078	49.3
			Subtotal	0	0.0	59,734	89.0	7,386	11.0	0	0.0	67,120	100.0
	7/2	203	M	349	0.5	21,319	30.5	2,097	3.0	349	0.5	24,114	34.5
	(7/2)		F	0	0.0	42,358	60.6	3,425	4.9	0	0.0	45,783	65.5
			Subtotal	349	0.5	63,676	91.1	5,522	7.9	349	0.5	69,897	100.0
	7/5	200	M	275	0.5	15,670	28.5	1,375	2.5	0	0.0	17,319	31.5
	(7/5)		F	275	0.5	34,913	63.5	2,474	4.5	0	0.0	37,662	68.5
			Subtotal	550	1.0	50,583	92.0	3,849	7.0	0	0.0	54,981	100.0
	7/9	212	M	0	0.0	11,526	31.6	1,541	4.2	339	0.9	13,406	36.8
	(7/9)		F	339	0.9	20,964	57.5	1,724	4.7	0	0.0	23,026	63.2
			Subtotal	339	0.9	32,490	89.2	3,265	9.0	339	0.9	36,440	100.0
	7/12	207	M	0	0.0	7,269	30.0	234	1.0	234	1.0	7,738	31.9
	(7/12)		F	117	0.5	15,359	63.3	1,055	4.3	0	0.0	16,531	68.1
			Subtotal	117	0.5	22,628	93.2	1,290	5.3	234	1.0	24,269	100.0
	7/16	209	M	118	0.5	5,086	21.5	781	3.3	118	0.5	6,103	25.8
	(7/16, 30; 8/2, 6, 9,		F	1,024	4.3	15,051	63.6	1,355	5.7	118	0.5	17,549	74.2
	13, 16, 20, 23, 27,		Subtotal	1,142	4.8	20,137	85.1	2,136	9.0	237	1.0	23,654	100.0
	30; 9/3)												
	Season	1,834	M	1,202	0.3	150,563	38.0	16,492	4.2	3,041	0.8	171,298	43.3
			F	1,755	0.4	204,310	51.6	17,830	4.5	810	0.2	224,705	56.7
			Total	2,957	0.7	354,874	89.6	34,321	8.7	3,851	1.0	396,031	100.0
1985	6/20	222	M	99	0.5	1,245	6.3	8,004	40.5	0	0.0	9,347	47.3
	(6/20)		F	0	0.0	2,055	10.4	8,359	42.3	0	0.0	10,415	52.7
			Subtotal	99	0.5	3,300	16.7	16,363	82.8	0	0.0	19,762	100.0
	6/24	176	M	0	0.0	4,864	11.4	13,377	31.3	244	0.6	18,484	43.2
	(6/24)		F	0	0.0	7,058	16.5	17,240	40.3	0	0.0	24,298	56.8
			Subtotal	0	0.0	11,922	27.9	30,616	71.6	244	0.6	42,778	100.0
	6/27	207	M	0	0.0	8,478	17.9	10,993	23.2	228	0.5	19,698	41.5
	(6/27)		F	0	0.0	10,105	21.3	17,412	36.7	228	0.5	27,745	58.5
			Subtotal	0	0.0	18,583	39.2	28,404	59.9	455	1.0	47,443	100.0
	7/1	211	M	427	0.9	12,153	25.6	13,292	28.0	0	0.0	25,872	54.5
	(7/1)		F	679	1.4	8,322	17.5	12,594	26.5	0	0.0	21,595	45.5
			Subtotal	1,106	2.3	20,474	43.1	25,886	54.5	0	0.0	47,471	100.0
	7/4	213	M	0	0.0	5,630	19.7	6,831	23.9	143	0.5	12,604	44.1
	(7/4)		F	143	0.5	7,374	25.8	8,460	29.6	0	0.0	15,977	55.9
			Subtotal	143	0.5	13,004	45.5	15,291	53.5	143	0.5	28,581	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 2 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1985 (cont.)	8/1 (8/1, 5, 8, 12, 15, 19, 22, 26, 29)	34	M	151	2.9	457	8.8	1,066	20.6	0	0.0	1,673	32.3
			F	0	0.0	2,588	50.0	910	17.6	0	0.0	3,498	67.6
			Subtotal	151	2.9	3,044	58.9	1,976	38.2	0	0.0	5,173	100.0
	Season	1,063	M	677	0.4	32,827	17.2	53,561	28.0	614	0.3	87,679	45.9
			F	822	0.4	37,502	19.6	64,975	34.0	228	0.1	103,526	54.1
			Total	1,498	0.8	70,329	36.8	118,536	62.0	842	0.4	191,208	100.0
1986	6/26 (6/26)	203	M	0	0.0	19,719	28.6	5,792	8.4	0	0.0	25,510	37.0
			F	0	0.0	31,578	45.8	11,514	16.7	345	0.5	43,437	63.0
			Subtotal	0	0.0	51,297	74.4	17,306	25.1	345	0.5	68,947	100.0
	6/30 (6/30)	216	M	304	0.5	21,942	36.1	8,145	13.4	0	0.0	30,390	50.0
			F	0	0.0	21,942	36.1	8,145	13.4	304	0.5	30,390	50.0
			Subtotal	304	0.5	43,883	72.2	16,289	26.8	304	0.5	60,780	100.0
	7/3 (7/3)	218	M	0	0.0	30,793	46.8	10,580	16.1	316	0.5	41,689	63.3
			F	0	0.0	18,698	28.4	5,135	7.8	316	0.5	24,150	36.7
			Subtotal	0	0.0	49,491	75.2	15,716	23.9	632	1.0	65,839	100.0
	7/7 (7/7)	211	M	280	0.5	19,874	35.5	5,038	9.0	280	0.5	25,472	45.5
			F	0	0.0	24,129	43.1	6,382	11.4	0	0.0	30,511	54.5
			Subtotal	280	0.5	44,003	78.6	11,421	20.4	280	0.5	55,983	100.0
	7/10 (7/10, 31; 8/4, 7, 11, 13, 15, 21, 28)	216	M	253	0.5	16,564	31.5	2,933	5.6	0	0.0	19,750	37.5
			F	474	0.9	27,326	51.9	5,107	9.7	0	0.0	32,908	62.5
			Subtotal	727	1.4	43,891	83.4	8,040	15.3	0	0.0	52,652	100.0
	Season	1,064	M	837	0.3	108,892	35.8	32,488	10.7	596	0.2	142,812	46.9
			F	474	0.2	123,673	40.7	36,283	11.9	965	0.3	161,395	53.1
			Total	1,310	0.4	232,564	76.5	68,771	22.6	1,561	0.5	304,201	100.0
1987	6/18, 24 (6/18, 24)	256	M	0	0.0	7,132	10.5	23,095	34.0	543	0.8	30,770	45.3
			F	0	0.0	11,683	17.2	24,657	36.3	815	1.2	37,156	54.7
			Subtotal	0	0.0	18,816	27.7	47,752	70.3	1,359	2.0	67,926	100.0
	6/30 (6/30)	528	M	0	0.0	29,077	25.7	22,163	19.6	1,017	0.9	52,257	46.3
			F	565	0.5	28,512	25.2	31,630	28.0	0	0.0	60,706	53.7
			Subtotal	565	0.5	57,589	51.0	53,793	47.6	1,017	0.9	112,963	100.0
	7/3, 7 (7/3, 7)	214	M	1,529	0.9	35,667	21.0	31,760	18.7	0	0.0	68,956	40.6
			F	849	0.5	55,538	32.7	44,499	26.2	0	0.0	100,886	59.4
			Subtotal	2,378	1.4	91,205	53.7	76,259	44.9	0	0.0	169,842	100.0
	7/11 (7/11)	212	M	1,010	1.4	15,671	21.7	12,909	17.9	649	0.9	30,239	41.9
			F	649	0.9	24,174	33.5	16,631	23.1	361	0.5	41,864	58.1
			Subtotal	1,659	2.3	39,845	55.3	29,590	41.0	1,010	1.4	72,118	100.0
	7/15 (7/15)	198	M	1,079	1.5	17,046	23.7	11,292	15.7	360	0.5	29,776	41.4
			F	360	0.5	27,618	38.4	14,169	19.7	0	0.0	42,147	58.6
			Subtotal	1,438	2.0	44,664	62.1	25,461	35.4	360	0.5	71,923	100.0
	7/20 (7/20; 8/6, 13, 17, 19, 21, 24, 27, 31; 9/3, 7)	218	M	881	1.4	15,616	25.2	7,929	12.8	0	0.0	24,427	39.4
			F	1,737	2.8	27,039	43.6	8,550	13.8	310	0.5	37,636	60.7
			Subtotal	2,618	4.2	42,655	68.8	16,479	26.6	310	0.5	62,044	100.0
	Season	1,626	M	4,498	0.8	120,209	21.6	109,149	19.6	2,569	0.5	236,425	42.5
			F	4,160	0.7	174,565	31.4	140,185	25.2	1,486	0.3	320,395	57.5
			Total	8,658	1.6	294,774	52.9	249,334	44.8	4,055	0.7	556,816	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 3 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1988	6/16	207	M	0	0.0	21,305	29.5	14,660	20.3	1,372	1.9	37,337	51.7
	(6/16)		F	0	0.0	17,766	24.6	15,383	21.3	1,733	2.4	34,882	48.3
			Subtotal	0	0.0	39,070	54.1	30,043	41.6	3,105	4.3	72,219	100.0
	6/20	180	M	0	0.0	28,407	25.0	26,475	23.3	659	0.6	55,541	48.9
	(6/20)		F	0	0.0	37,236	32.8	20,192	17.8	659	0.6	58,087	51.1
			Subtotal	0	0.0	65,643	57.8	46,667	41.1	1,318	1.2	113,628	100.0
	6/24	207	M	0	0.0	39,417	32.9	13,299	11.1	1,677	1.4	54,393	45.4
	(6/24)		F	0	0.0	48,642	40.6	15,575	13.0	1,198	1.0	65,415	54.6
			Subtotal	0	0.0	88,059	73.5	28,874	24.1	2,875	2.4	119,808	100.0
	6/28	209	M	1,494	1.0	67,726	44.0	32,453	21.1	0	0.0	101,673	66.0
	(6/28)		F	0	0.0	37,583	24.4	14,016	9.1	770	0.5	52,369	34.0
			Subtotal	1,494	1.0	105,308	68.4	46,470	30.2	770	0.5	154,027	100.0
	7/2	164	M	0	0.0	88,264	47.0	19,487	10.4	1,071	0.6	108,822	57.9
	(7/2)		F	0	0.0	69,905	37.2	9,208	4.9	0	0.0	79,113	42.1
			Subtotal	0	0.0	158,169	84.2	28,695	15.3	1,071	0.6	187,916	100.0
	7/5	206	M	1,590	1.0	73,222	44.7	11,917	7.3	0	0.0	86,728	52.9
	(7/5)		F	820	0.5	63,600	38.8	12,786	7.8	0	0.0	77,205	47.1
			Subtotal	2,410	1.5	136,822	83.5	24,702	15.1	0	0.0	163,917	100.0
	7/8	170	M	833	0.6	62,031	44.7	9,853	7.1	0	0.0	72,717	52.4
	(7/8)		F	833	0.6	59,533	42.9	5,690	4.1	0	0.0	66,055	47.6
			Subtotal	1,665	1.2	121,564	87.6	15,542	11.2	0	0.0	138,772	100.0
	7/11	202	M	646	0.5	60,574	44.1	6,144	4.5	0	0.0	67,364	49.0
	(7/11)		F	0	0.0	66,663	48.5	3,436	2.5	0	0.0	70,100	51.0
			Subtotal	646	0.5	127,237	92.6	9,580	7.0	0	0.0	137,450	100.0
	7/14	207	M	585	0.5	27,712	23.7	8,419	7.2	0	0.0	36,716	31.4
	(7/14)		F	1,169	1.0	73,432	62.8	5,028	4.3	585	0.5	80,214	68.6
			Subtotal	1,754	1.5	101,144	86.5	13,447	11.5	585	0.5	116,930	100.0
	7/18	202	M	601	1.0	21,436	37.1	3,430	5.9	0	0.0	25,467	44.1
	(7/18)		F	1,155	2.0	27,720	48.0	3,118	5.4	289	0.5	32,282	55.9
			Subtotal	1,756	3.0	49,156	85.1	6,549	11.3	289	0.5	57,749	100.0
	7/21	210	M	0	0.0	16,610	41.9	1,895	4.8	0	0.0	18,505	46.7
	(7/21)		F	0	0.0	19,251	48.6	1,895	4.8	0	0.0	21,146	53.3
			Subtotal	0	0.0	35,861	90.5	3,790	9.6	0	0.0	39,643	100.0
	7/25, 28	240	M	249	0.4	23,698	39.6	3,492	5.8	499	0.8	27,939	46.7
	(7/25, 28; 8/1, 4,		F	748	1.3	28,687	47.9	2,495	4.2	0	0.0	31,930	53.3
	8, 10, 12, 15, 18,		Subtotal	998	1.7	52,385	87.5	5,987	10.0	499	0.8	59,869	100.0
	20, 27, 31)												
	Season	2,404	M	5,997	0.4	530,403	38.9	151,525	11.1	5,279	0.4	693,204	50.9
			F	4,725	0.3	550,017	40.4	108,821	8.0	5,234	0.4	668,797	49.1
			Total	10,722	0.8	1,080,420	79.3	260,346	19.1	10,512	0.8	1,361,928	100.0
1989	6/19	147	M	0	0.0	6,268	15.0	11,617	27.8	293	0.7	18,178	43.5
	(6/19)		F	0	0.0	5,683	13.6	17,092	40.9	836	2.0	23,611	56.5
			Subtotal	0	0.0	11,952	28.6	28,709	68.7	1,128	2.7	41,789	100.0
	6/23	(est.)	M	0	0.0	11,128	17.0	17,988	27.4	230	0.4	29,346	44.7
	(6/23)		F	0	0.0	10,241	15.6	25,407	38.7	657	1.0	36,304	55.3
			Subtotal	0	0.0	21,369	32.6	43,395	66.1	886	1.4	65,650	100.0
	6/26	74	M	0	0.0	6,118	18.9	8,741	27.0	0	0.0	14,859	45.9
	(6/26)		F	0	0.0	5,698	17.6	11,816	36.5	0	0.0	17,514	54.1
			Subtotal	0	0.0	11,816	36.5	20,557	63.5	0	0.0	32,373	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 4 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1989 (cont.)	6/30 (6/30)	75	M	0	0.0	19,349	14.7	50,940	38.7	1,711	1.3	72,001	54.7
			F	0	0.0	21,061	16.0	38,567	29.3	0	0.0	59,628	45.3
			Subtotal	0	0.0	40,410	30.7	89,508	68.0	1,711	1.3	131,629	100.0
	7/3 (7/3)	79	M	0	0.0	15,072	16.5	24,298	26.6	0	0.0	39,370	43.1
			F	0	0.0	12,697	13.9	38,091	41.7	1,187	1.3	51,975	56.9
			Subtotal	0	0.0	27,769	30.4	62,389	68.3	1,187	1.3	91,345	100.0
	7/5 (7/5)	65	M	0	0.0	17,145	20.0	31,719	37.0	0	0.0	48,864	57.0
			F	0	0.0	11,830	13.8	25,032	29.2	0	0.0	36,863	43.0
			Subtotal	0	0.0	28,976	33.8	56,751	66.2	0	0.0	85,727	100.0
	7/8 (7/8)	(est.)	M	0	0.0	20,301	17.1	39,589	33.3	0	0.0	59,890	50.3
			F	0	0.0	26,492	22.3	31,910	26.8	774	0.7	59,176	49.7
			Subtotal	0	0.0	46,793	39.3	71,499	60.1	774	0.7	119,066	100.0
	7/11 (7/11)	78	M	0	0.0	11,005	14.1	23,026	29.5	0	0.0	34,031	43.6
			F	0	0.0	23,962	30.7	19,045	24.4	1,015	1.3	44,022	56.4
			Subtotal	0	0.0	34,968	44.8	42,071	53.9	1,015	1.3	78,053	100.0
	7/14 (7/14)	71	M	622	1.4	6,882	15.5	8,747	19.7	0	0.0	16,251	36.6
			F	0	0.0	19,403	43.7	8,125	18.3	622	1.4	28,150	63.4
			Subtotal	622	1.4	26,285	59.2	16,872	38.0	622	1.4	44,401	100.0
	7/18 (7/18, 27; 8/3, 7, 9, 12, 15, 18, 23, 26, 29; 9/1)	66	M	0	0.0	6,239	16.7	8,480	22.7	560	1.5	15,280	40.9
			F	560	1.5	11,880	31.8	9,639	25.8	0	0.0	22,079	59.1
			Subtotal	560	1.5	18,119	48.5	18,119	48.5	560	1.5	37,359	100.0
	Season	655	M	622	0.1	119,509	16.4	225,146	31.0	2,794	0.4	348,070	47.9
			F	560	0.1	148,948	20.5	224,723	30.9	5,090	0.7	379,322	52.1
			Total	1,182	0.2	268,457	36.9	449,869	61.8	7,884	1.1	727,392	100.0
1990	6/20 (6/20)	28	M	0	0.0	9,728	32.1	16,244	53.6	1,091	3.6	27,063	89.3
			F	0	0.0	3,243	10.7	0	0.0	0	0.0	3,243	10.7
			Subtotal	0	0.0	12,971	42.8	16,244	53.6	1,091	3.6	30,306	100.0
	6/25 (6/25)	101	M	0	0.0	18,685	31.7	20,395	34.6	2,358	4.0	41,438	70.3
			F	0	0.0	10,492	17.8	7,014	11.9	0	0.0	17,506	29.7
			Subtotal	0	0.0	29,177	49.5	27,409	46.5	2,358	4.0	58,944	100.0
	6/29 (6/29)	77	M	974	1.3	17,529	23.4	8,765	11.7	974	1.3	28,241	37.7
			F	974	1.3	39,853	53.2	5,843	7.8	0	0.0	46,670	62.3
			Subtotal	1,948	2.6	57,382	76.6	14,608	19.5	974	1.3	74,911	100.0
	7/5 (7/5)	77	M	0	0.0	31,608	36.4	16,933	19.5	0	0.0	48,541	55.9
			F	0	0.0	29,263	33.7	9,031	10.4	0	0.0	38,294	44.1
			Subtotal	0	0.0	60,871	70.1	25,964	29.9	0	0.0	86,835	100.0
	7/9 (7/9)	77	M	0	0.0	26,144	28.6	5,942	6.5	0	0.0	32,085	35.1
			F	0	0.0	43,969	48.1	14,169	15.5	1,188	1.3	59,326	64.9
			Subtotal	0	0.0	70,112	76.7	20,110	22.0	1,188	1.3	91,411	100.0
	7/14 (7/14)	59	M	0	0.0	24,340	30.5	4,070	5.1	0	0.0	28,410	35.6
			F	0	0.0	40,540	50.8	10,853	13.6	0	0.0	51,393	64.4
			Subtotal	0	0.0	64,880	81.3	14,923	18.7	0	0.0	79,803	100.0
	8/1 (8/1)	82	M	109	1.2	3,092	34.1	0	0.0	0	0.0	3,200	35.3
			F	109	1.2	5,313	58.6	444	4.9	0	0.0	5,866	64.7
			Subtotal	218	2.4	8,404	92.7	444	4.9	0	0.0	9,066	100.0
	8/6 (8/6, 10, 13, 16, 20, 27)	57	M	289	3.5	2,322	28.1	149	1.8	0	0.0	2,760	33.4
			F	289	3.5	4,346	52.6	868	10.5	0	0.0	5,503	66.6
			Subtotal	578	7.0	6,668	80.7	1,016	12.3	0	0.0	8,263	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 5 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1990 (cont.)	Season	558	M	1,372	0.3	133,447	30.4	72,496	16.5	4,423	1.0	211,738	48.2
			F	1,372	0.3	177,018	40.3	48,222	11.0	1,188	0.3	227,801	51.8
			Total	2,744	0.6	310,466	70.6	120,718	27.5	5,611	1.3	439,539	100.0
1991	6/20	154	M	0	0.0	1,981	14.9	3,360	25.3	0	0.0	5,341	40.3
	(6/20)		F	0	0.0	2,498	18.8	5,427	40.9	0	0.0	7,925	59.7
			Subtotal	0	0.0	4,479	33.8	8,787	66.2	0	0.0	13,266	100.0
	6/24	145	M	211	0.7	8,026	26.2	7,394	24.1	0	0.0	15,631	51.0
	(6/24)		F	0	0.0	7,394	24.1	7,605	24.8	0	0.0	14,999	49.0
			Subtotal	211	0.7	15,420	50.3	14,999	49.0	0	0.0	30,632	100.0
	7/1	172	M (est.)	0	0.0	16,386	32.7	11,392	22.7	0	0.0	27,320	54.5
	(7/1)		F (est.)	0	0.0	13,219	26.4	9,336	18.6	0	0.0	22,799	45.5
			Subtotal	0	0.0	29,070	58.0	21,051	42.0	0	0.0	50,121	100.0
	7/6	169	M	237	0.6	14,697	36.7	8,059	20.1	237	0.6	23,230	58.0
	(7/6)		F	711	1.8	11,141	27.8	4,978	12.4	0	0.0	16,830	42.0
			Subtotal	948	2.4	25,838	64.5	13,037	32.5	237	0.6	40,060	100.0
	7/13	136	M	386	0.7	14,684	27.9	6,569	12.5	0	0.0	21,639	41.2
	(7/13)		F	1,159	2.2	19,321	36.8	10,433	19.9	0	0.0	30,913	58.8
			Subtotal	1,546	2.9	34,004	64.7	17,002	32.4	0	0.0	52,552	100.0
	7/18	153	M	1,545	2.0	23,176	29.4	10,300	13.1	0	0.0	35,021	44.4
	(7/18)		F	2,060	2.6	31,416	39.9	10,300	13.1	0	0.0	43,776	55.6
			Subtotal	3,605	4.6	54,591	69.3	20,601	26.1	0	0.0	78,797	100.0
	7/22	158	M	0	0.0	17,233	26.6	8,206	12.7	0	0.0	25,439	39.2
	(7/22, 25)		F	821	1.3	26,670	41.1	11,899	18.4	0	0.0	39,390	60.8
			Subtotal	821	1.3	43,904	67.7	20,105	31.0	0	0.0	64,830	100.0
	7/29	146	M	535	1.4	9,365	24.0	3,479	8.9	0	0.0	13,379	34.2
	(7/25, 29)		F	535	1.4	20,069	51.4	5,084	13.0	0	0.0	25,688	65.8
			Subtotal	1,070	2.7	29,434	75.3	8,563	21.9	0	0.0	39,067	100.0
	8/1	146	M	90	0.7	2,781	21.2	718	5.5	0	0.0	3,588	27.4
	(8/1)		F	90	0.7	7,267	55.5	2,153	16.4	0	0.0	9,510	72.6
			Subtotal	179	1.4	10,048	76.7	2,871	21.9	0	0.0	13,098	100.0
	8/5	142	M	128	2.1	1,565	25.7	518	8.5	0	0.0	2,211	36.3
	(8/5)		F	85	1.4	3,149	51.7	646	10.6	0	0.0	3,880	63.7
			Subtotal	213	3.5	4,714	77.4	1,163	19.1	0	0.0	6,091	100.0
	8/8	109	M	0	0.0	1,950	33.5	489	8.4	0	0.0	2,439	41.9
	(8/8, 12, 14,		F	76	1.3	2,666	45.8	640	11.0	0	0.0	3,381	58.1
	19, 26)		Subtotal	76	1.3	4,615	79.3	1,129	19.4	0	0.0	5,820	100.0
	Season	1,630	M	3,133	0.8	111,844	28.4	60,483	15.3	237	0.1	175,238	44.4
			F	5,537	1.4	144,809	36.7	68,501	17.4	0	0.0	219,091	55.6
			Total	8,669	2.2	256,117	64.9	129,308	32.8	237	0.1	394,334	100.0
1992	6/18	181	M	0	0.0	7,029	21.5	14,451	44.2	915	2.8	22,396	68.5
	(6/18)		F	0	0.0	4,708	14.4	5,231	16.0	360	1.1	10,299	31.5
			Subtotal	0	0.0	11,738	35.9	19,682	60.2	1,275	3.9	32,695	100.0
	6/22	188	M	0	0.0	14,037	18.9	26,914	36.2	1,154	1.6	42,104	56.6
	(6/22)		F	0	0.0	11,045	14.8	20,959	28.2	335	0.5	32,339	43.5
			Subtotal	0	0.0	25,083	33.7	47,873	64.3	1,489	2.0	74,429	100.0
	6/25	182	M	0	0.0	11,519	20.9	14,550	26.4	606	1.1	26,675	48.4
	(6/25)		F	0	0.0	9,976	18.1	18,463	33.5	0	0.0	28,439	51.6
			Subtotal	0	0.0	21,494	39.0	33,013	59.9	606	1.1	55,114	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 6 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1992 (cont.)	6/29 (6/29)	191	M	0	0.0	14,294	17.8	19,748	24.6	802	1.0	34,845	43.4
			F	0	0.0	20,150	25.1	24,409	30.4	802	1.0	45,360	56.6
			Subtotal	0	0.0	34,443	42.9	44,157	55.1	1,604	2.0	80,213	100.0
	7/6 (7/6)	191	M	0	0.0	26,875	31.9	14,583	17.3	429	0.5	41,888	49.8
			F	0	0.0	23,339	27.7	17,614	20.9	1,356	1.6	42,308	50.3
			Subtotal	0	0.0	50,214	59.6	32,197	38.2	1,785	2.1	84,196	100.0
	8/3 (8/3, 6, 11, 14, 17, 20, 24, 27, 31)	154	M	0	0.0	1,857	28.6	463	7.1	0	0.0	2,320	35.8
			F	41	0.6	3,369	51.9	716	11.0	41	0.6	4,167	64.2
			Subtotal	41	0.6	5,226	80.5	1,180	18.2	41	0.6	6,489	100.0
	Season	896	M	0	0.0	61,318	18.4	70,961	21.3	3,105	0.9	135,384	40.6
			F	41	0.0	72,587	21.8	87,393	26.2	2,893	0.9	162,913	48.9
			Total	41	0.0	148,199	44.5	178,102	53.5	6,800	2.0	333,136	100.0
1993	6/25 (6/25)	194	M	0	0.0	4,914	14.4	13,547	39.7	1,399	4.1	19,860	58.2
			F	171	0.5	4,402	12.9	8,633	25.3	1,058	3.1	14,263	41.8
			Subtotal	171	0.5	9,316	27.3	22,180	65.0	2,457	7.2	34,123	100.0
	7/31 (7/31, 8/3, 6, 11, 14, 17, 20, 24, 27, 31)	124	M	275	3.2	1,667	19.4	1,315	15.3	0	0.0	3,258	37.9
			F	138	1.6	2,776	32.3	2,218	25.8	206	2.4	5,337	62.1
			Subtotal	413	4.8	4,444	51.7	3,533	41.1	206	2.4	8,595	100.0
	Season	318	M	275	0.6	6,581	15.4	14,862	34.8	1,399	3.3	23,117	54.1
			F	308	0.7	7,178	16.8	10,851	25.4	1,264	3.0	19,601	45.9
			Total	583	1.4	13,759	32.2	25,712	60.2	2,663	6.2	42,718	100.0
1994	6/24 (6/24)	173	M	0	0.0	21,193	24.3	22,676	26.0	3,489	4.0	47,357	54.3
			F	0	0.0	22,152	25.4	16,658	19.1	1,047	1.2	39,857	45.7
			Subtotal	0	0.0	43,345	49.7	39,334	45.1	4,535	5.2	87,214	100.0
	7/14 (7/14)	195	M	218	0.5	11,855	27.2	3,138	7.2	0	0.0	15,211	34.9
			F	218	0.5	22,359	51.3	5,143	11.8	654	1.5	28,374	65.1
			Subtotal	436	1.0	34,214	78.5	8,281	19.0	654	1.5	43,585	100.0
	7/19 (7/19)	190	M	301	0.5	18,993	31.6	3,166	5.3	0	0.0	22,479	37.4
			F	301	0.5	31,014	51.6	6,010	10.0	301	0.5	37,625	62.6
			Subtotal	601	1.0	50,007	83.2	9,166	15.3	301	0.5	60,104	100.0
	7/23 (7/23)	188	M	191	0.5	17,434	45.7	1,640	4.3	0	0.0	19,265	50.5
			F	420	1.1	16,633	43.6	1,831	4.8	0	0.0	18,884	49.5
			Subtotal	610	1.6	34,067	89.3	3,472	9.1	0	0.0	38,149	100.0
	7/26 (7/26)	192	M	117	0.5	4,802	21.4	1,406	6.3	0	0.0	6,325	28.2
			F	117	0.5	14,038	62.5	1,990	8.9	0	0.0	16,144	71.9
			Subtotal	234	1.0	18,839	83.9	3,396	15.1	0	0.0	22,460	100.0
	7/29 (7/29)	190	M	0	0.0	2,971	26.4	709	6.3	0	0.0	3,679	32.7
			F	56	0.5	6,515	57.9	1,001	8.9	0	0.0	7,573	67.3
			Subtotal	56	0.5	9,485	84.3	1,710	15.2	0	0.0	11,252	100.0
	8/4 (8/4)	128	M	0	0.0	1,059	26.6	311	7.8	0	0.0	1,370	34.4
			F	0	0.0	2,051	51.5	562	14.1	0	0.0	2,613	65.6
			Subtotal	0	0.0	3,111	78.1	872	21.9	0	0.0	3,983	100.0
	8/9 (8/9, 12, 15, 18, 22, 25, 27; 9/1)	133	M	0	0.0	887	33.1	121	4.5	0	0.0	1,007	37.6
			F	0	0.0	1,431	53.4	241	9.0	0	0.0	1,672	62.4
			Subtotal	0	0.0	2,317	86.5	362	13.5	0	0.0	2,679	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 7 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1994 (cont.)	Season	1,389	M	826	0.3	79,194	29.4	33,186	12.3	3,489	1.3	116,694	43.3
			F	1,111	0.4	116,192	43.1	33,437	12.4	2,001	0.7	152,741	56.7
			Total	1,937	0.7	195,386	72.5	66,622	24.7	5,489	2.0	269,426	100.0
1995	6/22 (6/22)	190	M	0	0.0	12,412	25.3	14,501	29.5	787	1.6	27,700	56.4
			F	246	0.5	10,593	21.6	10,618	21.6	0	0.0	21,457	43.7
			Subtotal	246	0.5	23,005	46.8	25,119	51.1	787	1.6	49,157	100.0
	6/26 (6/26)	184	M	503	0.5	21,257	22.8	12,147	13.0	503	0.5	34,410	36.9
			F	0	0.0	27,312	29.3	31,392	33.7	0	0.0	58,704	63.0
			Subtotal	503	0.5	48,569	52.1	43,539	46.7	503	0.5	93,152	100.0
	6/29 (6/29)	189	M	1,337	1.6	25,659	30.7	20,310	24.3	2,675	3.2	39,216	46.9
			F	0	0.0	18,555	22.2	14,125	16.9	919	1.1	44,348	53.1
			Subtotal	1,337	1.6	44,214	52.9	34,435	41.2	3,594	4.3	83,580	100.0
	7/3 (7/3)	195	M	2,772	3.1	28,438	31.8	19,227	21.5	447	0.5	50,884	56.9
			F	447	0.5	23,877	26.7	14,219	15.9	0	0.0	38,543	43.1
			Subtotal	3,219	3.6	52,315	58.5	33,446	37.4	447	0.5	89,427	100.0
	7/6 (7/6)	178	M	1,373	1.7	23,277	28.7	10,042	12.4	487	0.6	35,180	43.3
			F	2,275	2.8	30,126	37.1	13,698	16.9	0	0.0	46,099	56.7
			Subtotal	3,648	4.5	53,403	65.7	23,740	29.2	487	0.6	81,246	100.0
	7/10 (7/10)	179	M	1,917	2.2	21,238	24.6	8,205	9.5	1,451	1.7	32,811	38.0
			F	2,418	2.8	34,271	39.7	16,894	19.6	0	0.0	53,583	62.0
			Subtotal	4,336	5.0	55,509	64.3	25,099	29.1	1,451	1.7	86,368	100.0
	7/14 (7/14)	180	M	1,682	3.9	10,784	25.0	5,750	13.3	475	1.1	18,691	43.3
			F	1,436	3.3	14,373	33.3	8,627	20.0	0	0.0	24,437	56.7
			Subtotal	3,119	7.2	25,157	58.3	14,378	33.3	475	1.1	43,137	100.0
	7/18 (7/18)	177	M	1,678	4.5	10,532	28.2	4,434	11.9	0	0.0	16,644	44.6
			F	634	1.7	13,060	35.0	6,948	18.6	0	0.0	20,642	55.4
			Subtotal	2,312	6.2	23,592	63.3	11,382	30.5	0	0.0	37,294	100.0
	7/21 (7/21)	185	M	907	4.3	7,620	36.2	1,818	8.6	231	1.1	10,576	50.3
			F	907	4.3	6,141	29.2	3,413	16.2	0	0.0	10,461	49.7
			Subtotal	1,814	8.6	13,762	65.4	5,230	24.9	231	1.1	21,039	100.0
	8/4 (8/4)	72	M	60	5.6	149	13.9	194	18.1	0	0.0	403	37.6
			F	74	6.9	372	34.7	208	19.4	15	1.4	669	62.4
			Subtotal	134	12.5	521	48.6	402	37.5	15	1.4	1,072	100.0
	8/8, 12 (8/8, 12, 16, 19, 22, 26, 29; 9/1)	82	M	305	11.0	441	15.9	306	11.0	33	1.2	1,084	39.0
			F	169	6.1	814	29.3	678	24.4	33	1.2	1,695	61.0
			Subtotal	474	17.1	1,255	45.2	983	35.4	66	2.4	2,778	100.0
	Season	1,811	M	12,535	2.1	161,807	27.5	96,934	16.5	7,089	1.2	267,600	45.5
			F	8,607	1.5	179,495	30.5	120,819	20.5	968	0.2	320,037	54.5
			Total	21,142	3.6	341,302	58.0	217,753	37.0	8,056	1.4	588,250	100.0
1996	6/17 (6/17)	190	M	0	0.0	4,685	40.5	2,616	22.6	304	2.6	7,605	65.8
			F	0	0.0	1,278	11.1	2,434	21.1	243	2.1	3,955	34.2
			Subtotal	0	0.0	5,963	51.6	5,050	43.7	548	4.7	11,560	100.0
	6/20 (6/20)	188	M	146	0.5	10,218	37.2	5,985	21.8	584	2.1	16,932	61.7
			F	0	0.0	5,547	20.2	4,817	17.6	146	0.5	10,510	38.3
			Subtotal	146	0.5	15,765	57.4	10,802	39.4	730	2.7	27,442	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 8 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1996 (cont.)	6/24 (6/24)	189	M	0	0.0	7,611	39.2	2,777	14.3	103	0.5	10,490	54.0
			F	0	0.0	5,862	30.2	2,777	14.3	309	1.6	8,948	46.0
			Subtotal	0	0.0	13,473	69.3	5,554	28.6	411	2.1	19,438	100.0
	7/2 (7/2)	193	M	0	0.0	6,177	29.5	1,626	7.8	325	1.6	8,128	38.9
			F	0	0.0	8,886	42.5	3,576	17.1	325	1.6	12,787	61.1
			Subtotal	0	0.0	15,063	72.0	5,202	24.9	650	3.1	20,915	100.0
	7/5 (7/5)	196	M	0	0.0	5,764	32.7	2,341	13.3	450	2.6	8,555	48.5
			F	0	0.0	6,394	36.2	2,612	14.8	90	0.5	9,096	51.5
			Subtotal	0	0.0	12,158	68.9	4,953	28.1	540	3.1	17,651	100.0
	7/8 (7/8)	193	M	0	0.0	6,235	33.2	974	5.2	195	1.0	7,404	39.4
			F	97	0.5	8,865	47.2	2,046	10.9	390	2.1	11,397	60.6
			Subtotal	97	0.5	15,099	80.3	3,020	16.1	584	3.1	18,801	100.0
	7/12 (7/12)	199	M	0	0.0	7,714	29.1	1,995	7.5	266	1.0	9,975	37.7
			F	0	0.0	12,502	47.2	3,591	13.6	399	1.5	16,493	62.3
			Subtotal	0	0.0	20,217	76.4	5,586	21.1	665	2.5	26,468	100.0
	7/19 (7/16, 7/19)	198	M	0	0.0	9,672	33.8	2,598	9.1	0	0.0	12,270	42.9
			F	144	0.5	13,714	48.0	2,310	8.1	144	0.5	16,312	57.1
			Subtotal	144	0.5	23,385	81.8	4,908	17.2	144	0.5	28,582	100.0
	7/22 (7/22)	196	M	0	0.0	5,846	40.3	814	5.6	74	0.5	6,734	46.4
			F	148	1.0	6,142	42.3	1,480	10.2	0	0.0	7,770	53.6
			Subtotal	148	1.0	11,988	82.7	2,294	15.8	74	0.5	14,504	100.0
	7/25 (7/25)	184	M	0	0.0	3,041	33.7	539	6.0	0	0.0	3,580	39.7
			F	49	0.5	4,512	50.0	687	7.6	147	1.6	5,395	59.8
			Subtotal	49	0.5	7,602	84.2	1,226	13.6	147	1.6	9,024	100.0
	7/29 (7/29, 7/31)	191	M	0	0.0	1,153	21.5	112	2.1	0	0.0	1,265	23.6
			F	0	0.0	3,570	66.5	478	8.9	56	1.0	4,104	76.4
			Subtotal	0	0.0	4,722	88.0	590	11.0	56	1.0	5,369	100.0
	8/3 (8/3, 7, 10, 13, 16, 20, 23, 26)	52	M	0	0.0	827	26.9	177	5.8	0	0.0	1,005	32.7
			F	0	0.0	1,714	55.8	355	11.5	0	0.0	2,068	67.3
			Subtotal	0	0.0	2,541	82.7	532	17.3	0	0.0	3,073	100.0
	Season	2,169	M	146	0.1	68,941	34.0	22,556	11.1	2,301	1.1	93,944	46.3
			F	439	0.2	78,985	38.9	27,161	13.4	2,249	1.1	108,834	53.7
			Total	585	0.3	147,975	73.0	49,716	24.5	4,551	2.2	202,827	100.0
1997	6/23 [c] (6/23)	197	M	133	1.0	3,721	28.4	3,256	24.9	199	1.5	7,309	55.8
			F	0	0.0	2,326	17.8	3,389	25.9	67	0.5	5,781	44.2
			Subtotal	133	1.0	6,047	46.2	6,645	50.8	266	2.0	13,090	100.0
	7/31 [c] (7/31)	115	M	71	3.5	591	28.7	143	7.0	18	0.9	824	40.0
			F	54	2.6	967	47.0	215	10.4	0	0.0	1,236	60.0
			Subtotal	125	6.1	1,558	75.7	358	17.4	18	0.9	2,060	100.0
	8/6 [c] (8/6, 12, 18)	43	M	86	4.7	560	30.2	43	2.3	86	4.7	776	41.9
			F	216	11.6	690	37.2	129	7.0	43	2.3	1,077	58.1
			Subtotal	302	16.3	1,250	67.4	172	9.3	129	7.0	1,853	100.0
	Season	355	M	291	1.7	4,872	28.7	3,442	20.2	303	1.8	8,909	52.4
			F	269	1.6	3,983	23.4	3,733	22.0	110	0.6	8,094	47.6
			Total	560	3.3	8,855	52.1	7,175	42.2	413	2.4	17,003	100.0

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Table 61. Age and sex of chum salmon from the District 1 commercial fishery (page 9 of 9).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
	Grand Total [d]	17,772	M	32,410	0.6	1,690,406	29.0	963,279	16.5	37,238	0.6	2,712,111	47.0
			F	30,179	0.5	2,019,262	34.7	992,934	17.0	24,485	0.4	3,077,853	53.0
			Total	62,589	1.1	3,723,477	63.9	1,976,285	33.9	62,525	1.1	5,824,809	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sex of all fish was confirmed by visual inspection of gonads.

[d] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1989	6/19 (6/19)	M	Mean Length		604	633	608
			Std. Error		7	6	-
			Range		539- 655	547- 698	608- 608
			Sample Size	0	22	40	1
		F	Mean Length		561	591	577
			Std. Error		5	3	5
			Range		523- 594	544- 670	571- 587
			Sample Size	0	20	60	3
	6/23 (6/23)	M	Mean Length		591	622	608
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		570	587	577
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No sample data, mean lengths are averages from 6/19 and 6/26 catch data.						
	6/26 (6/26)	M	Mean Length		579	612	
			Std. Error		5	6	
			Range		550- 609	564- 660	
			Sample Size	0	14	20	0
		F	Mean Length		580	582	
			Std. Error		6	6	
			Range		547- 614	525- 645	
			Sample Size	0	13	27	0
	6/30 (6/30)	M	Mean Length		589	611	611
			Std. Error		12	4	-
			Range		533- 660	569- 652	611- 611
			Sample Size	0	11	29	1
		F	Mean Length		572	574	
			Std. Error		6	8	
			Range		539- 611	443- 609	
			Sample Size	0	12	22	0
	7/3 (7/3)	M	Mean Length		576	599	
			Std. Error		8	5	
			Range		534- 633	550- 644	
			Sample Size	0	13	21	0
		F	Mean Length		549	572	584
			Std. Error		5	4	-
			Range		525- 577	514- 620	584- 584
			Sample Size	0	11	33	1

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 2 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1989 (cont.)	7/5 (7/5)	M	Mean Length		586	619	
			Std. Error		8	5	
			Range		550- 662	575- 688	
			Sample Size	0	13	24	0
		F	Mean Length		567	590	
			Std. Error		7	7	
			Range		538- 586	542- 633	
			Sample Size	0	9	19	0
	7/8 (7/8)	M	Mean Length		575	604	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		565	582	573
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No sample data, mean lengths are averages from 7/5 and 7/11 catch data.						
	7/11 (7/11)	M	Mean Length		565	590	
			Std. Error		9	5	
			Range		516- 630	544- 645	
			Sample Size	0	12	22	0
		F	Mean Length		562	574	573
			Std. Error		5	6	-
			Range		513- 614	525- 623	573- 573
			Sample Size	0	24	19	1
	7/14 (7/14)	M	Mean Length	500	573	592	
			Std. Error	-	14	6	
			Range	500- 500	513- 654	543- 622	
			Sample size	1	11	14	0
		F	Mean Length		548	565	550
			Std. Error		3	6	-
			Range		505- 586	538- 597	550- 550
			Sample size	0	31	13	1
	7/18 (7/18, 27; 8/3, 7, 9, 12, 15, 18, 23, 26, 29, 9/1)	M	Mean Length		571	598	568
			Std. Error		8	9	-
			Range		507- 602	544- 679	568- 568
			Sample Size	0	11	15	1
		F	Mean Length	576	561	570	
			Std. Error	-	5	5	
			Range	576- 576	510- 599	538- 620	
			Sample Size	1	21	17	0

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 3 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1989 (cont.)	Season	M	Mean Length	500	581	608	602
			Range	500- 500	507- 665	538- 698	568- 611
			Sample size	1	107	185	3
		F	Mean Length	576	562	579	574
			Range	576- 576	505- 614	443- 670	550- 587
			Sample size	1	141	210	6
1990	6/20 (6/20)	M	Mean Length		607	607	605
			Std. Error		8	7	-
			Range		570- 640	565- 660	605- 605
			Sample Size	0	9	15	1
		F	Mean Length		543		
			Std. Error		9		
			Range		525- 554		
			Sample Size	0	3	0	0
	6/25 (6/25)	M	Mean Length		586	603	625
			Std. Error		4	5	24
			Range		542- 640	526- 660	587- 695
			Sample Size	0	32	35	4
		F	Mean Length		570	587	
			Std. Error		7	6	
			Range		540- 645	553- 617	
			Sample Size	0	18	12	0
	6/29 (6/29)	M	Mean Length	560	570	607	590
			Std. Error	-	6	12	-
			Range	560- 560	523- 611	565- 685	590- 590
			Sample Size	1	18	9	1
		F	Mean Length	505	563	580	
			Std. Error	-	4	13	
			Range	505- 505	510- 611	545- 642	
			Sample Size	1	41	6	0
	7/5 (7/5)	M	Mean Length		588	619	
			Std. Error		7	10	
			Range		529- 652	559- 680	
			Sample Size	0	28	15	0
		F	Mean Length		575	572	
			Std. Error		6	11	
			Range		509- 649	514- 613	
			Sample Size	0	26	8	0

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 4 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1990 (cont.)	7/9 (7/9)	M	Mean Length		587	610	
			Std. Error		6	19	
			Range		528- 644	537- 642	
			Sample Size	0	22	5	0
		F	Mean Length		548	578	594
			Std. Error		5	9	-
			Range		482- 598	532- 646	594- 594
			Sample Size	0	37	12	1
	7/14 (7/14)	M	Mean Length		582	627	
			Std. Error		6	23	
			Range		530- 627	582- 660	
			Sample Size	0	18	3	0
		F	Mean Length		553	559	
			Std. Error		6	9	
			Range		500- 645	535- 610	
			Sample Size	0	30	8	0
	8/1 (8/1)	M	Mean Length	568	562		
			Std. Error	-	4		
			Range	568- 568	524- 622		
			Sample Size	1	28	0	0
		F	Mean Length	469	541	571	
			Std. Error	0	4	18	
			Range	469- 469	482- 627	532- 620	
			Sample Size	1	48	4	0
	8/6 (8/6, 10, 13, 16, 20, 27)	M	Mean Length	492	559	633	
			Std. Error	9	10	-	
			Range	483- 500	507- 635	633- 633	
			Sample size	2	16	1	0
		F	Mean Length	519	533	546	
			Std. Error	13	4	16	
			Range	506- 532	497- 572	499- 598	
			Sample size	2	30	6	0
	Season	M	Mean Length	546	587	610	612
			Range	483- 568	507- 652	526 -685	587- 695
			Sample size	4	171	83	6
		F	Mean Length	505	558	574	594
			Range	469- 532	482- 649	499- 646	594- 594
			Sample size	4	233	56	1

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 5 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991	6/20 (6/20)	M	Mean Length		586	604	
			Std. Error		5	4	
			Range		540- 660	518- 670	
			Sample Size	0	23	39	0
		F	Mean Length		561	581	
			Std. Error		4	3	
			Range		505- 593	510- 682	
			Sample Size	0	29	63	0
	6/24 (6/24)	M	Mean Length		581	597	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		558	575	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No data, mean lengths are extrapolated from 6/20 and 7/6.						
	7/1 (7/1)	M	Mean Length		575	591	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
		F	Mean Length		555	570	
			Std. Error				
			Range				
			Sample Size	0	0	0	0
	Note: No data, mean lengths are extrapolated from 6/20 and 7/6.						
	7/6 (7/6)	M	Mean Length	513	570	584	607
			Std. Error	-	3	5	-
			Range	513- 513	521- 629	542- 663	607- 607
			Sample Size	1	62	34	1
		F	Mean Length	501	553	564	
			Std. Error	-	4	6	
			Range	501- 501	514- 649	520- 639	
			Sample Size	1	45	21	0
	7/13 (7/13)	M	Mean Length	494	561	573	
			Std. Error	-	5	6	
			Range	494- 494	507- 628	531- 625	
			Sample Size	1	38	17	0
		F	Mean Length	537	540	555	
			Std. Error	4	4	5	
			Range	531- 544	484- 627	515- 609	
			Sample Size	3	50	27	0

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 6 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1991 (cont.)	7/18 (7/18)	M	Mean Length	527	554	563	
			Std. Error	16	3	5	
			Range	502- 557	510- 589	523- 598	
			Sample Size	3	45	20	0
		F	Mean Length	544	540	548	
			Std. Error	11	3	5	
			Range	516- 570	500- 617	503- 600	
			Sample Size	4	61	20	0
	7/22 (7/22, 25)	M	Mean Length		550	576	
			Std. Error		4	8	
			Range		476- 603	521- 644	
			Sample Size	0	42	20	0
		F	Mean Length	492	535	547	
			Std. Error	26	3	6	
			Range	466- 517	472- 605	504- 628	
			Sample Size	2	65	29	0
	7/29 (7/25, 29)	M	Mean Length	511	552	565	
			Std. Error	14	4	9	
			Range	497- 525	513- 599	503- 621	
			Sample Size	2	35	13	0
		F	Mean Length	509	532	554	
			Std. Error	14	3	9	
			Range	495- 523	487- 599	504- 620	
			Sample Size	2	75	19	0
	8/1 (8/1)	M	Mean Length	523	552	571	
			Std. Error	-	5	14	
			Range	523- 523	483- 619	497- 616	
			Sample Size	1	31	8	0
		F	Mean Length	493	534	552	
			Std. Error	-	3	7	
			Range	493- 493	488- 588	510- 625	
			Sample Size	1	81	24	0
	8/5 (8/5)	M	Mean Length	533	551	568	
			Std. Error	7	5	14	
			Range	519- 543	503- 615	510- 661	
			Sample size	3	35	12	0
		F	Mean Length	520	536	556	
			Std. Error	2	3	9	
			Range	518- 522	477- 593	487- 603	
			Sample size	2	71	15	0

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 7 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	8/8 (8/8, 12, 14, 19, 26)	M	Mean Length		540	548	
			Std. Error		4	9	
			Range		483- 623	501- 624	
			Sample Size	0	51	13	0
		F	Mean Length	508	527	524	
			Std. Error	19	3	6	
			Range	489- 527	475- 613	480- 559	
			Sample Size	2	70	17	0
	Season	M	Mean Length	519	564	601	607
			Range	494- 557	476- 660	497- 660	607- 607
			Sample size	11	362	176	1
		F	Mean Length	524	549	587	
			Range	466- 570	472- 649	480- 682	
			Sample size	17	547	235	0
1992	6/18 (6/18)	M	Mean Length		565	577	593
			Std. Error		4	3	17
			Range		535- 625	500- 652	551- 650
			Sample Size	0	39	80	5
		F	Mean Length		546	547	568
			Std. Error		4	4	14
			Range		500- 585	520- 595	554- 581
			Sample Size	0	26	29	2
	6/22 (6/22)	M	Mean Length		561	575	613
			Std. Error		5	3	15
			Range		500- 623	512- 623	590- 641
			Sample Size	0	35	68	3
		F	Mean Length		551	555	561
			Std. Error		3	3	-
			Range		522- 583	511- 600	561- 561
			Sample Size	0	28	53	1
	6/25 (6/25)	M	Mean Length		567	572	575
			Std. Error		5	4	45
			Range		488-672	522- 651	530- 620
			Sample Size	0	38	48	2
		F	Mean Length		536	552	
			Std. Error		4	3	
			Range		496- 569	500- 628	
			Sample Size	0	32	61	0

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 8 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1992 (cont.)	6/29 (6/29)	M	Mean Length		560	573	600
			Std. Error		5	4	7
			Range		500- 621	510- 641	593- 606
			Sample Size	0	34	47	2
		F	Mean Length		535	546	517
			Std. Error		3	3	5
			Range		500- 605	499- 627	512- 521
			Sample Size	0	48	58	2
	7/6 (7/6)	M	Mean Length		557	558	578
			Std. Error		4	5	-
			Range		497- 625	506- 606	578- 578
			Sample Size	0	61	33	1
		F	Mean Length		536	544	563
			Std. Error		3	4	14
			Range		486- 584	497- 640	548- 591
			Sample Size	0	53	40	3
	8/3 (8/3, 6, 11, 14, 17 20, 24, 27, 31)	M	Mean Length		523	532	
			Std. Error		6	6	
			Range		448- 635	507- 580	
			Sample Size	0	44	11	0
		F	Mean Length	491	516	534	558
			Std. Error	-	2	7	-
			Range	491- 491	469- 576	506- 618	558- 558
			Sample Size	1	80	17	1
	Season	M	Mean Length		560	571	595
			Range		448- 672	500- 652	530- 650
			Sample size	0	251	287	13
		F	Mean Length	491	538	549	551
			Range	491- 491	469- 605	497- 640	512- 591
			Sample size	1	267	258	9
1993	6/25 (6/25)	M	Mean Length		555	572	595
			Std. Error		4	3	12
			Range		509- 599	502- 652	561- 644
			Sample Size	0	28	77	8
		F	Mean Length	540	541	560	568
			Std. Error	-	4	3	11
			Range	540- 540	502- 573	521- 607	535- 600
			Sample Size	1	25	49	6

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 9 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1993 (cont.)	7/31 (7/31, 8/3, 6, 11, 14, 17, 20, 24, 27, 31)	M	Mean Length	502	532	550	
			Std. Error	7	7	5	
			Range	488- 516	483- 597	515- 580	
			Sample Size	4	24	19	0
		F	Mean Length	497	525	530	517
			Std. Error	10	3	3	5
			Range	487- 507	476- 573	508- 565	511- 526
			Sample Size	2	40	32	3
	Season	M	Mean Length	502	549	570	595
			Range	488- 516	483- 599	502- 652	561- 644
			Sample size	4	52	96	8
		F	Mean Length	521	535	553	559
			Range	487- 540	476- 573	508- 607	511- 600
			Sample size	3	65	81	9
1994	6/24 (6/24)	M	Mean Length		566	564	564
			Std. Error		4	4	7
			Range		524- 639	509- 617	545- 592
			Sample Size	0	42	45	7
		F	Mean Length		543	549	565
			Std. Error		4	5	7
			Range		485- 609	497- 618	558- 571
			Sample Size	0	44	33	2
	7/14 (7/14)	M	Mean Length	559	559	577	
			Std. Error	-	3	7	
			Range	599- 599	510- 615	526- 608	
			Sample Size	1	53	14	0
		F	Mean Length	519	546	555	567
			Std. Error	-	2	3	15
			Range	519- 519	495- 598	534- 590	543- 596
			Sample Size	1	100	23	3
	7/19 (7/19)	M	Mean Length	514	556	556	
			Std. Error	-	4	10	
			Range	514- 514	499- 621	505- 607	
			Sample Size	1	60	10	0
		F	Mean Length	521	538	547	580
			Std. Error	-	2	4	-
			Range	521- 521	481- 596	508- 571	580- 580
			Sample Size	1	98	19	1

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 10 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994 (cont.)	7/23 (7/23)	M	Mean Length	522	549	556	
			Std. Error	-	3	9	
			Range	522- 522	497- 633	518- 585	
			Sample Size	1	86	8	0
		F	Mean Length	540	529	526	
			Std. Error	16	3	11	
			Range	524- 556	426- 604	477- 562	
			Sample Size	2	82	9	0
	7/26 (7/26)	M	Mean Length	518	547	552	
			Std. Error	-	5	8	
			Range	518- 518	499- 615	520- 621	
			Sample Size	1	40	12	0
		F	Mean Length	530	522	522	
			Std. Error	-	3	7	
			Range	530- 530	409- 575	473- 580	
			Sample Size	1	120	17	0
	7/29 (7/29)	M	Mean Length		544	556	
			Std. Error		4	9	
			Range		468- 604	509- 615	
			Sample Size	0	50	12	0
		F	Mean Length	507	527	542	
			Std. Error	-	3	7	
			Range	507- 507	457- 605	484- 595	
			Sample Size	1	110	17	0
	8/4 (8/4)	M	Mean Length		555	535	
			Std. Error		5	7	
			Range		510- 604	506- 586	
			Sample Size	0	34	10	0
		F	Mean Length		534	534	
			Std. Error		4	6	
			Range		428- 625	503- 596	
			Sample Size	0	66	18	0
	8/9 (8/9, 12, 15, 18, 22, 25, 27; 9/1)	M	Mean Length		552	542	
			Std. Error		4	13	
			Range		498- 615	508- 599	
			Sample Size	0	44	6	0
		F	Mean Length		532	535	
			Std. Error		3	8	
			Range		465- 617	491- 574	
			Sample Size	0	71	12	0

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 11 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1994 (cont.)	Season	M	Mean Length	528	557	563	564
			Range	514- 559	468- 639	505- 621	545- 592
			Sample size	4	409	117	7
		F	Mean Length	528	536	546	568
			Range	507- 556	409- 625	447- 618	543- 596
			Sample size	6	691	148	6
1995	6/22 (6/22)	M	Mean Length		580	591	592
			Std. Error		4	4	27
			Range		542- 634	511- 675	543- 637
			Sample Size	0	48	56	3
		F	Mean Length	542	557	526	
			Std. Error	-	4	11	
			Range	542- 542	504- 660	477- 562	
			Sample Size	1	41	41	0
	6/26 (6/26)	M	Mean Length	543	568	575	608
			Std. Error	-	4	5	-
			Range	543- 543	524- 623	531- 662	608- 608
			Sample Size	1	42	24	1
		F	Mean Length		547	557	
			Std. Error		3	3	
			Range		505- 598	512- 609	
			Sample Size	0	54	62	0
	6/29 (6/29)	M	Mean Length	545	576	578	587
			Std. Error	11	3	4	16
			Range	528- 565	535- 620	506- 625	529- 642
			Sample Size	3	58	46	6
		F	Mean Length		546	563	579
			Std. Error		4	5	12
			Range		502- 632	515- 637	567- 590
			Sample Size	0	42	32	2
	7/3 (7/3)	M	Mean Length	541	563	582	520
			Std. Error	3	3	4	-
			Range	533- 552	526- 630	532- 635	520- 520
			Sample Size	6	62	42	1
		F	Mean Length	571	533	559	
			Std. Error	-	3	4	
			Range	571- 571	510- 592	508- 602	
			Sample Size	1	52	31	0

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 12 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995 (cont.)	7/6 (7/6)	M	Mean Length	501	560	575	572
			Std. Error	7	3	8	-
			Range	491- 514	513- 622	529- 669	572- 572
			Sample Size	3	51	22	1
		F	Mean Length	523	543	548	
			Std. Error	5	3	5	
			Range	512- 543	446- 614	487- 597	
			Sample Size	5	66	30	0
	7/10 (7/10)	M	Mean Length	530	573	586	579
			Std. Error	6	4	7	15
			Range	518- 543	527- 647	530- 633	557- 607
			Sample Size	4	44	17	3
		F	Mean Length	513	556	563	
			Std. Error	4	3	4	
			Range	503- 523	515- 635	521- 616	
			Sample Size	5	71	35	0
	7/14 (7/14)	M	Mean Length	508	555	562	565
			Std. Error	8	4	6	24
			Range	477- 539	499-640	512- 627	541- 588
			Sample Size	7	45	24	2
		F	Mean Length	503	531	540	
			Std. Error	9	2	4	
			Range	477- 529	488- 582	497- 593	
			Sample Size	6	60	36	0
	7/18 (7/18)	M	Mean Length	523	561	554	
			Std. Error	11	4	4	
			Range	488- 582	522- 624	516- 582	
			Sample Size	8	50	21	0
		F	Mean Length	523	540	548	
			Std. Error	14	3	4	
			Range	495- 538	507- 594	505- 605	
			Sample Size	3	62	33	0
	7/21 (7/21)	M	Mean Length	511	551	564	600
			Std. Error	8	3	6	8
			Range	474- 540	487- 633	520- 605	592- 607
			Sample Size	8	67	16	2
		F	Mean Length	523	533	551	
			Std. Error	8	3	5	
			Range	492- 562	493- 582	508- 605	
			Sample Size	8	54	30	0

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 13 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995 (cont.)	8/4 (8/4)	M	Mean Length	531	553	566	
			Std. Error	16	11	12	
			Range	492- 565	497- 609	509- 657	
			Sample Size	4	10	13	0
		F	Mean Length	527	547	563	587
			Std. Error	4	5	6	-
			Range	518- 541	497- 597	532- 621	587- 587
			Sample Size	5	25	14	1
	8/8, 12 (8/8, 12, 16, 19, 22, 26, 29; 9/1)	M	Mean Length	544	563	599	598
			Std. Error	13	7	10	-
			Range	497- 610	528-596	562- 637	598- 598
			Sample Size	9	13	9	1
		F	Mean Length	525	546	556	562
			Std. Error	5	6	7	-
			Range	512- 534	483- 601	491- 609	562- 562
			Sample Size	4	24	20	1
	Season	M	Mean Length	527	566	579	581
			Range	474- 610	487- 647	506- 675	520- 642
			Sample size	53	490	290	20
		F	Mean Length	520	545	553	578
			Range	477- 571	446- 660	487- 637	562- 590
			Sample size	38	551	364	4
1996	6/17 (6/17)	M	Mean Length		588	602	598
			Std. Error		3	4	8
			Range		529- 649	548- 680	580- 629
			Sample Size	0	77	43	5
		F	Mean Length		561	571	574
			Std. Error		4	3	12
			Range		530- 584	517- 620	539- 597
			Sample Size	0	21	40	4
	6/20 (6/20)	M	Mean Length	560	585	591	607
			Std. Error	-	3	4	19
			Range	560- 560	528- 670	535- 659	568- 648
			Sample Size	1	70	41	4
		F	Mean Length		562	571	543
			Std. Error		2	5	-
			Range		529- 590	518- 661	543- 543
			Sample Size	0	38	32	1

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 14 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996 (cont.)	6/24 (6/24)	M	Mean Length		585	602	602
			Std. Error		3	6	-
			Range		509- 651	551- 684	602- 602
			Sample Size	0	74	27	1
		F	Mean Length		553	566	573
			Std. Error		3	5	9
			Range		500-614	530- 612	558- 588
			Sample Size	0	56	27	3
	7/2 (7/2)	M	Mean Length		580	586	591
			Std. Error		4	8	10
			Range		524- 692	540- 667	573- 607
			Sample Size	0	56	15	3
		F	Mean Length		551	565	579
			Std. Error		3	4	25
			Range		481- 613	524- 616	532- 616
			Sample Size	0	82	33	3
	7/5 (7/5)	M	Mean Length		561	564	590
			Std. Error		4	5	3
			Range		487- 647	527- 638	584- 599
			Sample Size	0	64	25	5
		F	Mean Length		539	546	563
			Std. Error		3	4	-
			Range		492- 598	489- 594	563- 563
			Sample Size	0	71	29	1
	7/8 (7/8)	M	Mean Length		579	582	576
			Std. Error		3	10	4
			Range		535- 667	544- 633	572- 580
			Sample Size	0	63	10	2
		F	Mean Length	552	553	559	563
			Std. Error	-	2	4	12
			Range	552- 552	508- 594	511- 588	528- 578
			Sample Size	1	91	21	4
	7/12 (7/12)	M	Mean Length		571	593	603
			Std. Error		4	9	34
			Range		514- 633	512- 649	569- 636
			Sample Size	0	58	15	2
		F	Mean Length		555	562	554
			Std. Error		2	4	16
			Range		512- 610	527- 616	524- 578
			Sample Size	0	93	27	3

- continued -

Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 15 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996 (cont.)	7/19 (7/16, 7/19)	M	Mean Length		573	590	
			Std. Error		3	7	
			Range		506- 643	553- 645	
			Sample Size	0	67	18	0
		F	Mean Length	522	553	551	541
			Std. Error	-	2	4	-
			Range	522- 522	512- 595	520- 582	541- 541
			Sample Size	1	94	16	1
	7/22 (7/22)	M	Mean Length		570	571	581
			Std. Error		3	7	-
			Range		518- 639	534- 610	581- 581
			Sample Size	0	79	11	1
		F	Mean Length	520	545	549	
			Std. Error	19	3	5	
			Range	501- 538	446- 623	513- 594	
			Sample Size	2	82	20	0
	7/25 (7/25)	M	Mean Length		562	562	
			Std. Error		4	12	
			Range		488- 675	493- 607	
			Sample Size	0	61	11	0
		F	Mean Length	500	540	549	541
			Std. Error	-	3	6	28
			Range	500- 500	477- 606	521- 612	487- 583
			Sample Size	1	92	14	3
	7/29 (7/29, 7/31)	M	Mean Length		567	593	
			Std. Error		5	7	
			Range		520- 640	575- 610	
			Sample Size	0	40	4	0
		F	Mean Length		549	563	541
			Std. Error		2	6	17
			Range		460- 668	511- 620	524- 557
			Sample Size	0	127	17	2
	8/3 (8/3, 7, 10, 13, 16, 20, 23, 26)	M	Mean Length		562	593	
			Std. Error		6	27	
			Range		506- 591	542- 632	
			Sample Size	0	13	3	0
		F	Mean Length		547	559	
			Std. Error		4	10	
			Range		499- 619	519- 591	
			Sample Size	0	29	6	0

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 16 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996	Season	M	Mean Length	560	576	589	596
			Range	560- 560	487- 692	493- 684	568- 648
			Sample size	1	722	223	23
		F	Mean Length	525	551	561	562
			Range	500- 552	446- 668	489- 661	487- 616
			Sample size	5	876	282	25
1997	6/23 [b] (6/23)	M	Mean Length	530	581	603	604
			Std. Error	30	4	3	16
			Range	500- 560	531- 648	549- 645	572- 624
			Sample Size	2	56	49	3
		F	Mean Length		560	578	611
			Std. Error		4	3	-
			Range		526- 610	514- 631	611- 611
			Sample Size	0	35	51	1
	7/31 [b] (7/31)	M	Mean Length	535	552	579	571
			Std. Error	22	4	12	-
			Range	503- 599	501- 627	546- 656	571- 571
			Sample Size	4	33	8	1
		F	Mean Length	529	536	554	
			Std. Error	16	3	10	
			Range	498- 550	490- 599	508- 600	
			Sample Size	3	54	12	0
	8/6 [b] (8/6, 12, 18)	M	Mean Length	551	552	562	594
			Std. Error	10	8	-	6
			Range	541- 561	490- 581	562- 562	588- 599
			Sample Size	2	13	1	2
		F	Mean Length	527	547	569	590
			Std. Error	18	7	11	-
			Range	483- 590	491- 601	547- 583	590- 590
			Sample Size	5	16	3	1
	Season	M	Mean Length	537	574	602	599
			Range	500- 599	490- 648	546- 656	571- 624
			Sample Size	8	102	58	6
		F	Mean Length	528	552	577	603
			Range	483- 590	490- 610	508- 631	590- 611
			Sample Size	8	105	66	2

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Table 62. Mean length (mm) of chum salmon from the District 1 commercial fishery (page 17 of 17).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Grand Total [c]	M	Mean Length	527	568	588	595
			Range	474- 610	443- 692	493- 698	520- 695
			Sample size	86	2,666	1,515	87
		F	Mean Length	524	547	564	574
			Range	466- 590	409- 668	443- 682	487- 616
			Sample size	83	3,476	1,700	62

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.

[b] Sex of all fish was confirmed by visual inspection of gonads.

[c] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 63. Age and sex of chum salmon from the District 4 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1988	6/14	57	M	0	0.0	134	12.3	364	33.3	58	5.3	556	50.9
	(6/13 - 14)		F	0	0.0	191	17.5	345	31.6	0	0.0	536	49.1
			Subtotal	0	0.0	325	29.8	709	64.9	58	5.3	1,092	100.0
	6/17	27	M	0	0.0	125	14.8	157	18.5	31	3.7	314	37.0
	(6/16 - 17)		F	0	0.0	220	25.9	314	37.0	0	0.0	533	63.0
			Subtotal	0	0.0	345	40.7	471	55.6	31	3.7	847	100.0
	6/20	56	M	0	0.0	160	21.4	134	17.9	13	1.8	307	41.1
	(6/20 - 21)		F	0	0.0	227	30.4	186	25.0	27	3.6	439	58.9
			Subtotal	0	0.0	386	51.8	320	42.9	40	5.4	746	100.0
	6/28	58	M	0	0.0	1,785	32.8	658	12.1	0	0.0	2,443	44.8
	(6/28)		F	93	1.7	1,880	34.5	1,035	19.0	0	0.0	3,008	55.2
			Subtotal	93	1.7	3,665	67.3	1,693	31.1	0	0.0	5,449	100.0
	7/2	58	M	74	1.7	1,045	24.1	898	20.7	0	0.0	2,017	46.5
	(7/2)		F	0	0.0	1,722	39.7	599	13.8	0	0.0	2,320	53.5
			Subtotal	74	1.7	2,767	63.8	1,496	34.5	0	0.0	4,337	100.0
	7/5	52	M	0	0.0	1,017	30.8	1,206	36.5	63	1.9	2,286	69.2
	(7/5)		F	0	0.0	573	17.3	381	11.5	63	1.9	1,017	30.8
			Subtotal	0	0.0	1,590	48.1	1,587	48.0	127	3.8	3,303	100.0
	7/8	53	M	140	3.8	1,454	39.6	415	11.3	0	0.0	2,009	54.7
	(7/8)		F	0	0.0	1,179	32.1	415	11.3	70	1.9	1,663	45.3
			Subtotal	140	3.8	2,633	71.7	830	22.6	70	1.9	3,672	100.0
	7/11	59	M	0	0.0	1,146	39.0	250	8.5	0	0.0	1,396	47.5
	(7/11)		F	0	0.0	1,246	42.4	299	10.2	0	0.0	1,544	52.5
			Subtotal	0	0.0	2,392	81.4	548	18.7	0	0.0	2,940	100.0
	7/14	57	M	0	0.0	705	40.4	429	24.6	0	0.0	1,135	64.9
	(7/14)		F	31	1.8	490	28.1	92	5.3	0	0.0	613	35.1
			Subtotal	31	1.8	1,196	68.4	521	29.8	0	0.0	1,748	100.0
	7/18	54	M	0	0.0	1,444	53.7	99	3.7	51	1.9	1,594	59.3
	(7/18, 21)		F	0	0.0	946	35.2	150	5.6	0	0.0	1,095	40.7
			Subtotal	0	0.0	2,390	88.8	249	9.2	51	1.9	2,690	100.0
	7/25	42	M	0	0.0	297	26.2	0	0.0	0	0.0	297	26.2
	(7/25, 27)		F	54	4.8	674	59.5	80	7.1	27	2.4	836	73.8
			Subtotal	54	4.8	971	85.7	80	7.1	27	2.4	1,133	100.0
	8/1, 3	20	M	0	0.0	316	25.0	63	5.0	0	0.0	379	30.0
	(7/31; 8/1, 3, 5, 8,		F	0	0.0	884	70.0	0	0.0	0	0.0	884	70.0
	10, 12, 15, 17, 19, 22,		Subtotal	0	0.0	1,200	95.0	63	5.0	0	0.0	1,263	100.0
	24, 26, 29, 31; 9/5, 7)												
	Season	593	M	213	0.7	9,629	33.0	4,671	16.0	217	0.7	14,731	50.4
			F	178	0.6	10,231	35.0	3,896	13.3	187	0.6	14,491	49.6
			Total	391	1.3	19,860	68.0	8,567	29.3	404	1.4	29,220	100.0
1989	6/23	50	M	0	0.0	588	12.2	1,497	31.1	107	2.2	2,192	45.6
	(6/15, 19, 23)		F	0	0.0	1,120	23.3	1,390	28.9	107	2.2	2,617	54.4
			Subtotal	0	0.0	1,709	35.5	2,887	60.0	214	4.4	4,809	100.0

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 2 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1989 (cont.)	6/26 (6/26)	79	M	0	0.0	194	12.7	407	26.6	0	0.0	601	39.3
			F	0	0.0	503	32.9	425	27.8	0	0.0	928	60.7
			Subtotal	0	0.0	697	45.6	832	54.4	0	0.0	1,529	100.0
	6/30 (6/30)	74	M	0	0.0	863	17.6	1,456	29.7	0	0.0	2,319	47.3
			F	0	0.0	794	16.2	1,790	36.5	0	0.0	2,584	52.7
			Subtotal	0	0.0	1,657	33.8	3,246	66.2	0	0.0	4,903	100.0
	7/3 (7/3, 5, 7)	71	M	0	0.0	3,083	26.8	2,428	21.1	0	0.0	5,511	47.9
			F	0	0.0	2,428	21.1	3,405	29.6	161	1.4	5,994	52.1
			Subtotal	0	0.0	5,511	47.9	5,833	50.7	161	1.4	11,505	100.0
	7/12 (7/10, 12, 14)	138	M	0	0.0	2,400	27.5	1,328	15.2	63	0.7	3,790	43.5
			F	0	0.0	2,903	33.3	1,961	22.5	63	0.7	4,927	56.5
			Subtotal	0	0.0	5,303	60.8	3,289	37.7	126	1.4	8,717	100.0
	7/18 (7/18, 21)	136	M	0	0.0	1,477	23.5	1,200	19.1	0	0.0	2,677	42.6
			F	0	0.0	2,036	32.4	1,571	25.0	0	0.0	3,607	57.4
			Subtotal	0	0.0	3,513	55.9	2,771	44.1	0	0.0	6,284	100.0
	7/24 (7/24)	79	M	0	0.0	177	35.4	158	31.6	0	0.0	335	67.1
			F	0	0.0	107	21.5	57	11.4	0	0.0	164	32.9
			Subtotal	0	0.0	284	56.9	215	43.0	0	0.0	499	100.0
	7/27 (7/27, 31; 8/2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25; 9/1, 8)	36	M	0	0.0	511	44.4	415	36.1	0	0.0	926	80.6
			F	0	0.0	128	11.1	95	8.3	0	0.0	223	19.4
			Subtotal	0	0.0	638	55.6	511	44.4	0	0.0	1,149	100.0
	Season	703	M	0	0.0	9,293	23.6	8,888	22.6	170	0.4	18,351	46.6
			F	0	0.0	10,019	25.4	10,695	27.1	331	0.8	21,044	53.4
			Total	0	0.0	19,312	49.0	19,583	49.7	500	1.3	39,395	100.0
1990	6/14 (6/14)	71	M	0	0.0	718	33.8	389	18.3	0	0.0	1,107	52.1
			F	0	0.0	570	26.8	448	21.1	0	0.0	1,018	47.9
			Subtotal	0	0.0	1,288	60.6	837	39.4	0	0.0	2,125	100.0
	6/18, 21 (6/18, 21, 25)	70	M	0	0.0	1,641	27.1	1,036	17.1	0	0.0	2,677	44.3
			F	0	0.0	2,677	44.3	691	11.4	0	0.0	3,367	55.7
			Subtotal	0	0.0	4,317	71.4	1,727	28.6	0	0.0	6,044	100.0
	7/2 (7/2)	48	M	0	0.0	1,596	35.4	658	14.6	189	4.2	2,444	54.2
			F	0	0.0	1,596	35.4	469	10.4	0	0.0	2,065	45.8
			Subtotal	0	0.0	3,192	70.8	1,127	25.0	189	4.2	4,509	100.0
	7/7 (7/7)	75	M	120	1.3	3,601	40.0	479	5.3	0	0.0	4,200	46.7
			F	0	0.0	4,075	45.3	720	8.0	0	0.0	4,794	53.3
			Subtotal	120	1.3	7,675	85.3	1,199	13.3	0	0.0	8,995	100.0
	7/9 (7/9, 11, 13)	77	M	0	0.0	4,244	32.5	849	6.5	0	0.0	5,093	39.0
			F	0	0.0	7,457	57.1	509	3.9	0	0.0	7,966	61.0
			Subtotal	0	0.0	11,701	89.6	1,358	10.4	0	0.0	13,059	100.0
	7/20 (7/16, 19 - 21)	71	M	0	0.0	3,145	42.3	416	5.6	0	0.0	3,561	47.9
			F	0	0.0	3,457	46.5	416	5.6	0	0.0	3,873	52.1
			Subtotal	0	0.0	6,601	88.8	833	11.2	0	0.0	7,434	100.0

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 3 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1990 (cont.)	7/25 (7/23 - 26)	76	M	0	0.0	831	30.3	0	0.0	0	0.0	831	30.3
			F	71	2.6	1,805	65.8	36	1.3	0	0.0	1,912	69.7
			Subtotal	71	2.6	2,636	96.1	36	1.3	0	0.0	2,743	100.0
	7/27 (7/27 - 28)	51	M	154	19.6	93	11.8	0	0.0	0	0.0	247	31.4
			F	124	15.7	416	52.9	0	0.0	0	0.0	540	68.6
			Subtotal	278	35.3	509	64.7	0	0.0	0	0.0	787	100.0
	7/30 (7/30 - 31)	53	M	0	0.0	302	37.7	0	0.0	0	0.0	302	37.7
			F	46	5.7	454	56.6	0	0.0	0	0.0	500	62.3
			Subtotal	46	5.7	756	94.3	0	0.0	0	0.0	802	100.0
	8/1 (8/1- 3, 6, 8, 13, 16, 18, 20, 23, 27)	41	M	60	4.9	446	36.6	89	7.3	0	0.0	595	48.8
			F	60	4.9	535	43.9	29	2.4	0	0.0	624	51.2
			Subtotal	119	9.8	981	80.5	118	9.7	0	0.0	1,219	100.0
	Season	633	M	334	0.7	16,617	34.8	3,917	8.2	189	0.4	21,057	44.1
			F	300	0.6	23,041	48.3	3,318	7.0	0	0.0	26,659	55.9
			Total	634	1.3	39,658	83.1	7,235	15.2	189	0.4	47,717	100.0
1991	7/1 (6/13, 20, 24, 27; 7/1)	53	M	0	0.0	1,772	30.2	774	13.2	0	0.0	2,546	43.4
			F	111	1.9	2,323	39.6	886	15.1	0	0.0	3,321	56.6
			Subtotal	111	1.9	4,095	69.8	1,660	28.3	0	0.0	5,867	100.0
	7/4 (7/4)	29	M	0	0.0	721	27.6	721	27.6	0	0.0	1,442	55.2
			F	0	0.0	629	24.1	541	20.7	0	0.0	1,170	44.8
			Subtotal	0	0.0	1,350	51.7	1,262	48.3	0	0.0	2,612	100.0
	7/6 (7/6)	22	M	0	0.0	897	40.9	298	13.6	0	0.0	1,195	54.5
			F	0	0.0	997	45.5	0	0.0	0	0.0	997	45.5
			Subtotal	0	0.0	1,894	86.4	298	13.6	0	0.0	2,192	100.0
	7/8 (7/8)	74	M	0	0.0	741	24.3	702	23.0	0	0.0	1,443	47.3
			F	0	0.0	906	29.7	702	23.0	0	0.0	1,607	52.7
			Subtotal	0	0.0	1,647	54.0	1,403	46.0	0	0.0	3,050	100.0
	7/11 (7/11, 13, 15)	75	M	0	0.0	7,627	34.7	3,803	17.3	0	0.0	11,430	52.0
			F	286	1.3	6,748	30.7	3,517	16.0	0	0.0	10,550	48.0
			Subtotal	286	1.3	14,375	65.4	7,319	33.3	0	0.0	21,980	100.0
	7/19 (7/17, 19)	80	M	0	0.0	4,651	42.5	688	6.3	0	0.0	5,338	48.8
			F	0	0.0	4,793	43.8	819	7.5	0	0.0	5,612	51.3
			Subtotal	0	0.0	9,444	86.3	1,506	13.8	0	0.0	10,948	100.0
	7/24 (7/22, 24)	69	M	46	1.4	1,035	31.9	188	5.8	0	0.0	1,269	39.1
			F	46	1.4	1,552	47.8	377	11.6	0	0.0	1,975	60.9
			Subtotal	92	2.8	2,586	79.7	565	17.4	0	0.0	3,244	100.0
	7/26 (7/26)	83	M	17	1.2	418	28.9	17	1.2	0	0.0	453	31.3
			F	17	1.2	907	62.7	69	4.8	0	0.0	993	68.7
			Subtotal	35	2.4	1,325	91.6	87	6.0	0	0.0	1,446	100.0
	7/29 (7/29)	77	M	0	0.0	477	33.8	128	9.1	0	0.0	605	42.9
			F	36	2.6	697	49.4	73	5.2	0	0.0	807	57.1
			Subtotal	36	2.6	1,175	83.2	201	14.3	0	0.0	1,412	100.0
	7/31 (7/31)	68	M	0	0.0	156	23.5	39	5.9	0	0.0	196	29.4
			F	10	1.5	372	55.9	88	13.2	0	0.0	469	70.6
			Subtotal	10	1.5	528	79.4	127	19.1	0	0.0	665	100.0

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 4 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1991 (cont.)	8/2 (8/2, 5, 9, 14, 16, 19, 21, 23, 26, 28; 9/2)	26	M	0	0.0	249	23.1	0	0.0	0	0.0	249	23.1
			F	0	0.0	828	76.9	0	0.0	0	0.0	828	76.9
			Subtotal	0	0.0	1,077	100.0	0	0.0	0	0.0	1,077	100.0
	Season	656	M	63	0.1	18,743	34.4	7,358	13.5	0	0.0	26,165	48.0
			F	507	0.9	20,752	38.1	7,071	13.0	0	0.0	28,330	52.0
			Total	570	1.0	39,496	72.5	14,429	26.5	0	0.0	54,493	100.0
1992	6/18 (6/15, 18)	53	M	0	0.0	334	7.5	1,175	26.4	169	3.8	1,678	37.7
			F	0	0.0	85	1.9	2,688	60.4	0	0.0	2,772	62.3
			Subtotal	0	0.0	418	9.4	3,863	86.8	169	3.8	4,450	100.0
	6/29 (6/24, 29; 7/1)	128	M	0	0.0	2,424	11.7	6,796	32.8	0	0.0	9,220	44.5
			F	0	0.0	4,049	19.5	7,447	35.9	0	0.0	11,495	55.5
			Subtotal	0	0.0	6,473	31.2	14,243	68.7	0	0.0	20,720	100.0
	7/6 (7/3, 6, 7, 8, 10)	184	M	0	0.0	4,769	18.5	8,971	34.8	284	1.1	14,024	54.4
			F	0	0.0	3,635	14.1	7,708	29.9	412	1.6	11,755	45.6
			Subtotal	0	0.0	8,404	32.6	16,679	64.7	696	2.7	25,779	100.0
	7/15 (7/13, 15, 17, 20, 22, 24, 27, 29, 31; 8/3, 5, 7, 10, 12, 14, 17, 19, 21 24, 26, 28, 31; 9/2, 4)	181	M	135	0.6	4,577	20.4	5,205	23.2	135	0.6	10,050	44.8
			F	0	0.0	6,071	27.1	6,183	27.6	135	0.6	12,388	55.2
			Subtotal	135	0.6	10,647	47.5	11,387	50.8	269	1.2	22,434	100.0
	Season	546	M	135	0.2	12,104	16.5	22,147	30.2	587	0.8	34,972	47.7
			F	0	0.0	13,839	18.9	24,025	32.7	547	0.7	38,411	52.3
			Total	135	0.2	25,942	35.4	46,172	62.9	1,134	1.5	73,383	100.0
1993	6/28 (6/21, 24, 28)	69	M	0	0.0	923	17.4	1,613	30.4	308	5.8	2,844	53.6
			F	0	0.0	617	11.6	1,307	24.6	537	10.1	2,461	46.4
			Subtotal	0	0.0	1,540	29.0	2,920	55.0	845	15.9	5,306	100.0
	6/30 (6/30)	72	M	0	0.0	348	13.9	590	23.6	278	11.1	1,215	48.6
			F	0	0.0	243	9.7	798	31.9	243	9.7	1,285	51.4
			Subtotal	0	0.0	591	23.6	1,389	55.5	521	20.8	2,501	100.0
	7/2 (7/2, 5)	49	M	0	0.0	639	8.2	2,235	28.6	319	4.1	3,193	40.8
			F	0	0.0	1,119	14.3	2,394	30.6	1,119	14.3	4,631	59.2
			Subtotal	0	0.0	1,758	22.5	4,629	59.2	1,438	18.4	7,823	100.0
	7/9, 12 (7/7, 9, 12)	92	M	122	1.1	2,407	21.7	2,894	26.1	0	0.0	5,423	48.9
			F	122	1.1	2,773	25.0	2,174	19.6	599	5.4	5,667	51.1
			Subtotal	244	2.2	5,179	46.7	5,068	45.7	599	5.4	11,090	100.0
	7/16 (7/14, 16, 19, 21, 23, 26, 28, 30; 8/2, 6, 9, 11, 16, 18, 20, 23, 25, 28; 9/3)	116	M	128	0.9	4,533	31.9	2,328	16.4	366	2.6	7,355	51.7
			F	0	0.0	3,684	25.9	2,944	20.7	242	1.7	6,870	48.3
			Subtotal	128	0.9	8,217	57.8	5,272	37.1	607	4.3	14,223	100.0
	Season	398	M	250	0.6	8,849	21.6	9,661	23.6	1,270	3.1	20,031	48.9
			F	122	0.3	8,435	20.6	9,617	23.5	2,740	6.7	20,914	51.1
			Total	372	0.9	17,285	42.2	19,278	47.1	4,010	9.8	40,943	100.0
1994[c]	(6/15, 20)	0	M										
			F										
			Subtotal									539	

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 5 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1994 (cont.)	(7/1)	0	M										
			F										
			Subtotal									13,544	
	(7/4)	0	M										
			F										
			Subtotal									3,120	
	7/6	107	M	0	0.0	1,417	34.6	1,073	26.2	37	0.9	2,526	61.7
	(7/6)		F	0	0.0	917	22.4	651	15.9	0	0.0	1,568	38.3
			Subtotal	0	0.0	2,334	57.0	1,724	42.1	37	0.9	4,094	100.0
	7/8	69	M	0	0.0	2,281	27.5	1,203	14.5	0	0.0	3,484	42.0
	(7/8)		F	0	0.0	3,611	43.5	1,080	13.0	119	1.4	4,810	58.0
			Subtotal	0	0.0	5,893	71.0	2,283	27.5	119	1.4	8,296	100.0
	7/11	112	M	0	0.0	661	28.6	351	15.2	20	0.9	1,032	44.6
	(7/11)		F	0	0.0	724	31.3	557	24.1	0	0.0	1,281	55.4
			Subtotal	0	0.0	1,385	59.9	908	39.3	20	0.9	2,313	100.0
	7/13	259	M	0	0.0	3,438	35.1	1,175	12.0	39	0.4	4,652	47.5
	(7/13)		F	0	0.0	3,780	38.6	1,361	13.9	0	0.0	5,142	52.5
			Subtotal	0	0.0	7,218	73.7	2,537	25.9	39	0.4	9,794	100.0
	(7/15)	0	M										
			F										
			Subtotal									5,791	
	(7/18)	0	M										
			F										
			Subtotal									3,023	
	(7/20)	0	M										
			F										
			Subtotal									4,684	
	(7/22)	0	M										
			F										
			Subtotal									2,696	
	(7/25)	0	M										
			F										
			Subtotal									1,103	
	(7/27, 29; 8/1, 3, 5, 8, 10, 12, 15, 19, 22, 24, 26, 31; 9/2)	0	M										
			F										
			Subtotal									2,304	
	Season	547	M										
			F										
			Total									61,301	
1995	6/24	57	M	0	0.0	1,822	7.0	7,745	29.8	0	0.0	9,566	36.8
	(6/13, 17, 20, 24, 26, 29; 7/3)		F	460	1.8	5,469	21.1	10,480	40.4	0	0.0	16,408	63.2
			Subtotal	460	1.8	7,290	28.1	18,224	70.2	0	0.0	25,967	100.0
	7/12	181	M	1,070	2.8	7,061	18.2	4,498	11.6	217	0.6	12,847	33.1
	(7/5, 7, 10, 12, 14)		F	2,567	6.6	15,864	40.9	7,283	18.8	217	0.6	25,931	66.9
			Subtotal	3,637	9.4	22,926	59.1	11,781	30.4	434	1.1	38,778	100.0

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 6 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1995 (cont.)	7/17 (7/17, 19)	174	M	198	3.4	765	13.2	332	5.7	34	0.6	1,329	23.0
			F	631	10.9	2,297	39.7	1,528	26.4	0	0.0	4,455	77.0
			Subtotal	828	14.3	3,061	52.9	1,860	32.2	34	0.6	5,785	100.0
	7/21 (7/19 - 9/1)	186	M	707	6.5	3,057	28.0	1,703	15.6	58	0.5	5,525	50.5
			F	588	5.4	3,174	29.0	1,528	14.0	118	1.1	5,408	49.5
			Subtotal	1,295	11.9	6,230	57.0	3,231	29.6	176	1.6	10,932	100.0
	Season	598	M	1,975	2.4	12,704	15.6	14,278	17.5	309	0.4	29,267	35.9
			F	4,245	5.2	26,803	32.9	20,818	25.6	335	0.4	52,202	64.1
			Total	6,221	7.6	39,507	48.5	35,097	43.1	644	0.8	81,462	100.0
1996[c]	(6/22)	0	M										
			F										
			Subtotal									6,984	
	(6/25)	0	M										
			F										
			Subtotal									6,662	
	(6/29)	0	M										
			F										
			Subtotal									8,441	
	(7/3)	0	M										
			F										
			Subtotal									10,073	
	(7/6)	0	M										
			F										
			Subtotal									5,073	
	(7/9)	0	M										
			F										
			Subtotal									8,768	
	7/11 (7/11)	199	M	0	0.0	2,755	34.7	359	4.5	0	0.0	3,115	39.2
			F	0	0.0	4,153	52.3	639	8.0	40	0.5	4,832	60.8
			Subtotal	0	0.0	6,909	86.9	998	12.6	40	0.5	7,947	100.0
	(7/13)	0	M										
			F										
			Subtotal									4,748	
	7/15, 17 (7/15, 17)	217	M	0	0.0	5,484	36.9	548	3.7	0	0.0	6,032	40.6
			F	0	0.0	7,952	53.5	823	5.5	69	0.5	8,843	59.4
			Subtotal	0	0.0	13,435	90.3	1,371	9.2	69	0.5	14,875	100.0
	(7/20)	0	M										
			F										
			Subtotal									3,355	
	7/24 (7/24)	199	M	8	0.5	537	34.2	71	4.5	0	0.0	616	39.2
			F	8	0.5	860	54.8	79	5.0	8	0.5	955	60.8
			Subtotal	16	1.0	1,397	88.9	150	9.5	8	0.5	1,571	100.0

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Table 63. Age and sex of chum salmon from the District 4 commercial fishery (page 7 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1996 (cont.)	(7/27)	0	M										
			F										
			Subtotal									1,885	
	(7/29)	0	M										
			F										
			Subtotal									1,034	
	(7/31; 8/2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26)	0	M										
			F										
			Subtotal									1,589	
	Season	615	M										
			F										
			Total									83,005	
1997	6/19 [d] (6/13, 16, 19)	170	M	0	0.0	81	7.1	509	44.7	7	0.6	596	52.4
			F	0	0.0	60	5.3	483	42.4	0	0.0	543	47.6
			Subtotal	0	0.0	141	12.4	992	87.1	7	0.6	1,139	100.0
	6/26 [d] (6/23, 26, 30)	169	M	0	0.0	457	9.5	1,913	39.7	29	0.6	2,399	49.7
			F	0	0.0	371	7.7	2,028	42.0	28	0.6	2,427	50.3
			Subtotal	0	0.0	828	17.2	3,941	81.7	57	1.2	4,826	100.0
	7/7 [d] (7/2, 4, 7, 9)	191	M	73	0.5	1,974	14.1	4,460	31.9	73	0.5	6,580	47.1
			F	0	0.0	2,339	16.8	4,971	35.6	73	0.5	7,384	52.9
			Subtotal	73	0.5	4,313	30.9	9,431	67.5	146	1.0	13,964	100.0
	7/11 [d] (7/11, 14)	197	M	63	1.5	839	20.3	755	18.3	105	2.6	1,761	42.6
			F	0	0.0	1,069	25.9	1,258	30.4	42	1.0	2,370	57.4
			Subtotal	63	1.5	1,908	46.2	2,013	48.7	147	3.6	4,131	100.0
	7/18 [d] (7/16, 18, 21)	198	M	39	0.5	1,620	21.2	1,736	22.7	0	0.0	3,395	44.4
			F	38	0.5	1,852	24.3	2,354	30.8	0	0.0	4,244	55.6
			Subtotal	77	1.0	3,472	45.5	4,090	53.5	0	0.0	7,639	100.0
	7/25 [d] (7/23, 25, 28, 30)	143	M	172	3.5	1,171	23.8	826	16.8	35	0.7	2,203	44.8
			F	103	2.1	1,652	33.5	930	18.9	34	0.7	2,720	55.2
			Subtotal	275	5.6	2,823	57.3	1,756	35.7	69	1.4	4,923	100.0
	8/6 [d] (8/1 - 9/3)	153	M	24	1.3	357	19.6	214	11.8	0	0.0	596	32.7
			F	47	2.6	560	30.7	608	33.3	12	0.7	1,227	67.3
			Subtotal	71	3.9	917	50.3	822	45.1	12	0.7	1,823	100.0
	Season	1,221	M	371	1.0	6,498	16.9	10,414	27.1	248	0.6	17,531	45.6
			F	189	0.5	7,905	20.6	12,630	32.8	190	0.5	20,914	54.4
			Total	560	1.5	14,403	37.5	23,044	59.9	438	1.1	38,445	100.0
	Grand Total [e]	5,348	M	3,341	0.8	94,437	23.3	81,334	20.1	2,991	0.7	182,104	45.0
			F	5,541	1.4	121,025	29.9	92,070	22.7	4,330	1.1	222,966	55.0
			Total	8,883	2.2	215,462	53.2	173,404	42.8	7,320	1.8	405,058	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

b The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

c Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season is not included in the "Grand total".

d Sex of all fish was confirmed by visual inspection of gonads.

e The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 64. Mean length (mm) of chum salmon from the District 4 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995	6/24	M	Mean Length		584	602	
	(6/13, 17, 20, 24,		Std. Error		16	6	
	26, 29; 7/3)		Range		547- 627	563- 652	
			Sample Size	0	4	17	0
		F	Mean Length	525	578	580	
			Std. Error	-	6	6	
			Range	525- 525	535- 611	545-656	
			Sample Size	1	12	23	0
	7/12	M	Mean Length	529	598	603	636
	(7/5, 7, 10,		Std. Error	8	5	7	-
	12, 14)		Range	513- 551	544- 657	541- 653	636- 636
			Sample Size	5	33	21	1
		F	Mean Length	551	565	581	600
			Std. Error	6	3	4	-
			Range	504- 578	520- 648	540- 623	600- 600
			Sample Size	12	74	34	1
	7/17	M	Mean Length	556	585	601	623
	(7/17, 19)		Std. Error	10	5	10	-
			Range	528- 591	530- 626	561- 650	623- 623
			Sample Size	6	23	10	1
		F	Mean Length	529	561	575	
			Std. Error	5	3	4	
			Range	489- 571	501- 604	525- 620	
			Sample Size	19	69	46	0
	7/21	M	Mean Length	524	568	579	577
	(7/19 - 9/1)		Std. Error	11	4	6	-
			Range	454- 575	512- 640	492- 636	577- 577
			Sample Size	12	52	29	1
		F	Mean Length	533	546	555	548
			Std. Error	5	3	5	11
			Range	511- 562	504- 594	502- 613	537- 559
			Sample Size	10	54	26	2
	Season	M	Mean Length	530	588	599	624
			Range	454- 591	530- 657	492- 653	577- 636
			Sample Size	23	112	77	3
		F	Mean Length	542	565	578	582
			Range	489- 578	501- 648	502- 656	537- 600
			Sample Size	42	209	129	3

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Table 64. Mean length (mm) of chum salmon from the District 4 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1996[b]	7/11	M	Mean Length		589	622	
			Std. Error		4	8	
			Range		516- 677	572- 657	
			Sample Size	0	69	9	0
		F	Mean Length		561	568	561
			Std. Error		2	7	-
			Range		513- 623	499- 605	561- 561
			Sample Size	0	104	16	1
	7/15, 17	M	Mean Length		593	606	
			Std. Error		3	10	
			Range		531- 666	569- 655	
			Sample Size	0	80	7	0
		F	Mean Length		560	581	561
			Std. Error		2	7	-
			Range		499- 615	544- 634	561- 561
			Sample Size	0	116	12	1
	7/24	M	Mean Length	527	584	594	
			Std. Error	-	3	14	
			Range	527- 527	525- 669	529- 650	
			Sample Size	1	67	9	0
		F	Mean Length	551	564	571	550
			Std. Error	-	3	6	-
			Range	551- 551	485- 619	542- 597	550- 550
			Sample Size	1	109	10	1
1997	6/19[c] (6/13, 16, 19)	M	Mean Length		609	629	694
			Std. Error		9	3	-
			Range		549- 664	548- 691	694- 694
			Sample Size	0	12	76	1
		F	Mean Length		584	595	
			Std. Error		7	3	
			Range		558- 618	533- 655	
			Sample Size	0	9	72	0
	6/26[c] (6/23, 26, 30)	M	Mean Length		584	620	623
			Std. Error		5	4	-
			Range		554- 627	521- 698	623- 623
			Sample Size	0	16	67	1
		F	Mean Length		580	587	580
			Std. Error		11	3	-
			Range		537- 683	532- 641	580- 580
			Sample Size	0	13	70	1

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Table 64. Mean length (mm) of chum salmon from the District 4 commercial fishery (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1997 (cont.)	7/7 [c] (7/2, 4, 7, 9)	M	Mean Length	537	592	612	610
			Std. Error	-	6	4	-
			Range	537- 537	525- 650	545- 680	610- 610
			Sample Size	1	27	61	1
		F	Mean Length		562	590	568
			Std. Error		5	3	-
			Range		510- 628	531- 692	568- 568
			Sample Size	0	32	68	1
	7/11 [c] (7/11, 14)	M	Mean Length	537	568	603	615
			Std. Error	8	4	6	10
			Range	522- 551	514- 628	512- 677	604- 655
			Sample Size	3	40	36	5
		F	Mean Length		549	580	581
			Std. Error		3	3	18
			Range		497- 590	532- 643	563- 598
			Sample Size	0	51	60	2
	7/18 [c] (7/16, 18, 21)	M	Mean Length	517	569	602	
			Std. Error	-	3	4	
			Range	517- 517	519- 623	502- 658	
			Sample Size	1	42	45	0
		F	Mean Length	542	562	578	
			Std. Error	-	4	3	
			Range	542- 542	501- 608	522- 635	
			Sample Size	1	48	61	0
	7/25 [c] (7/23, 25, 28, 30)	M	Mean Length	494	559	582	573
			Std. Error	15	5	6	-
			Range	464- 531	500- 666	531- 635	573- 573
			Sample Size	5	34	24	1
		F	Mean Length	516	542	556	551
			Std. Error	16	3	5	-
			Range	488- 545	493- 596	521- 612	551- 551
			Sample Size	3	48	27	1
	8/6 [c] (8/1 - 9/3)	M	Mean Length	511	569	603	
			Std. Error	6	6	9	
			Range	505- 517	512- 629	528- 662	
			Sample Size	2	30	18	0
		F	Mean Length	530	538	557	590
			Std. Error	10	4	4	-
			Range	511- 549	480- 599	495- 616	590- 590
			Sample Size	4	47	51	1

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Table 64. Mean length (mm) of chum salmon from the District 4 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	Season	M	Mean Length	513	576	610	611
			Range	464- 551	500- 666	502- 698	573- 694
			Sample Size	12	201	327	9
		F	Mean Length	525	555	582	571
			Range	488- 549	480- 683	495- 692	551- 598
			Sample Size	8	248	409	6
	Grand Total [d]	M	Mean Length	522	582	605	617
			Range	454- 591	500- 666	492- 698	573- 694
			Sample Size	35	313	404	12
		F	Mean Length	534	560	580	576
			Range	488- 578	480- 683	495- 692	537- 600
			Sample Size	50	457	538	9

a "Season" mean lengths are weighted by the commercial harvest in each stratum.

b Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata; Season is not included in "Grand Total".

c Sex of all fish was confirmed by visual inspection of gonads.

d "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 65. Age and sex of chum salmon from the District 5 commercial fishery.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1988	6/16	40	M	0	0.0	27	2.5	573	52.5	27	2.5	627	57.5
	(6/16)		F	0	0.0	27	2.5	436	40.0	0	0.0	464	42.5
			Subtotal	0	0.0	55	5.0	1,009	92.5	27	2.5	1,091	100.0
	6/20	54	M	0	0.0	196	5.6	1,751	50.0	129	3.7	2,076	59.3
	(6/20)		F	0	0.0	65	1.9	1,231	35.2	129	3.7	1,425	40.7
			Subtotal	0	0.0	261	7.5	2,981	85.2	258	7.4	3,501	100.0
	6/23	37	M	0	0.0	211	2.7	2,538	32.4	211	2.7	2,961	37.8
	(6/23)		F	0	0.0	634	8.1	4,238	54.1	0	0.0	4,872	62.2
			Subtotal	0	0.0	846	10.8	6,776	86.5	211	2.7	7,833	100.0
	6/28	57	M	0	0.0	440	5.3	3,378	40.4	0	0.0	3,818	45.6
	(6/28)		F	0	0.0	293	3.5	4,260	50.9	0	0.0	4,553	54.4
			Subtotal	0	0.0	733	8.8	7,638	91.3	0	0.0	8,369	100.0
	7/2	87	M	0	0.0	838	12.6	2,667	40.2	76	1.1	3,580	54.0
	(7/2, 5)		F	0	0.0	990	14.9	2,057	31.0	0	0.0	3,047	46.0
			Subtotal	0	0.0	1,828	27.6	4,724	71.3	76	1.1	6,627	100.0
	7/8	75	M	51	2.7	203	10.7	403	21.3	0	0.0	657	34.7
	(7/8)		F	0	0.0	328	17.3	909	48.0	0	0.0	1,237	65.3
			Subtotal	51	2.7	530	28.0	1,313	69.3	0	0.0	1,894	100.0
	7/11	119	M	30	0.8	535	14.3	786	21.0	0	0.0	1,352	36.1
	(7/11, 14, 18, 25, 29;		F	30	0.8	977	26.1	1,385	37.0	0	0.0	2,392	63.9
	8/1, 3, 5, 8, 10, 12, 15, 17, 19, 22, 24, 26, 29, 31; 9/2, 5, 7, 9)		Subtotal	60	1.6	1,513	40.4	2,172	58.0	0	0.0	3,744	100.0
	Season	469	M	81	0.2	2,451	7.4	12,095	36.6	444	1.3	15,071	45.6
			F	30	0.1	3,315	10.0	14,516	43.9	129	0.4	17,990	54.4
			Total	111	0.3	5,765	17.4	26,612	80.5	573	1.7	33,059	100.0
1989	6/19	69	M	0	0.0	194	34.8	186	33.3	8	1.4	388	69.6
	(6/19)		F	0	0.0	40	7.2	113	20.3	16	2.9	169	30.4
			Subtotal	0	0.0	234	42.0	299	53.6	24	4.3	557	100.0
	6/23	70	M	0	0.0	334	15.7	912	42.9	121	5.7	1,368	64.3
	(6/23, 26)		F	0	0.0	396	18.6	334	15.7	30	1.4	759	35.7
			Subtotal	0	0.0	730	34.3	1,246	58.6	151	7.1	2,127	100.0
	6/30	51	M	0	0.0	835	31.4	885	33.3	104	3.9	1,823	68.6
	(6/30; 7/3)		F	0	0.0	365	13.7	469	17.6	0	0.0	834	31.4
			Subtotal	0	0.0	1,200	45.1	1,354	50.9	104	3.9	2,658	100.0
	7/7	72	M	0	0.0	1,422	29.2	1,554	31.9	0	0.0	2,976	61.1
	(7/5, 7, 10)		F	0	0.0	813	16.7	1,081	22.2	0	0.0	1,894	38.9
			Subtotal	0	0.0	2,235	45.9	2,635	54.1	0	0.0	4,870	100.0
	7/14	66	M	0	0.0	595	30.3	446	22.7	0	0.0	1,040	53.0
	(7/14)		F	0	0.0	357	18.2	565	28.8	0	0.0	923	47.0
			Subtotal	0	0.0	952	48.5	1,011	51.5	0	0.0	1,963	100.0
	7/21	89	M	0	0.0	263	34.8	144	19.1	0	0.0	407	53.9
	(7/21, 24)		F	9	1.1	221	29.2	119	15.7	0	0.0	348	46.1
			Subtotal	9	1.1	483	64.0	263	34.8	0	0.0	755	100.0

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 2 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1989 (cont.)	7/27, 31 (7/27, 31; 8/2, 4, 7, 9, 11, 14, 16, 18, 21, 23, 25, 28, 30; 9/1)	85	M	8	1.2	89	12.9	114	16.5	0	0.0	212	30.6
			F	0	0.0	228	32.9	244	35.3	8	1.2	480	69.4
			Subtotal	8	1.2	317	45.8	358	51.8	8	1.2	692	100.0
	Season	502	M	8	0.1	3,731	27.4	4,241	31.1	233	1.7	8,213	60.3
			F	9	0.1	2,420	17.8	2,925	21.5	54	0.4	5,408	39.7
			Total	17	0.1	6,151	45.2	7,166	52.6	287	2.1	13,622	100.0
1990	6/20 (6/20)	16	M	0	0.0	298	68.8	81	18.8	0	0.0	379	87.5
			F	0	0.0	54	12.5	0	0.0	0	0.0	54	12.5
			Subtotal	0	0.0	352	81.3	81	18.8	0	0.0	433	100.0
	6/25 (6/25)	53	M	0	0.0	430	32.1	303	22.6	0	0.0	734	54.7
			F	0	0.0	405	30.2	202	15.1	0	0.0	607	45.3
			Subtotal	0	0.0	835	62.3	506	37.7	0	0.0	1,341	100.0
	6/29 (6/29)	72	M	0	0.0	378	30.6	257	20.8	0	0.0	635	51.4
			F	0	0.0	515	41.7	85	6.9	0	0.0	600	48.6
			Subtotal	0	0.0	893	72.3	342	27.7	0	0.0	1,235	100.0
	7/5 (7/2, 5, 7, 9)	110	M	56	0.9	3,206	51.8	842	13.6	0	0.0	4,103	66.3
			F	0	0.0	1,690	27.3	396	6.4	0	0.0	2,086	33.7
			Subtotal	56	0.9	4,895	79.1	1,238	20.0	0	0.0	6,189	100.0
	7/16 (7/11, 13, 16, 18)	64	M	0	0.0	710	25.0	309	10.9	0	0.0	1,019	35.9
			F	0	0.0	1,686	59.4	133	4.7	0	0.0	1,819	64.1
			Subtotal	0	0.0	2,395	84.4	443	15.6	0	0.0	2,838	100.0
	7/23 (7/20- 21, 23- 28, 30- 31; 8/1- 3, 6, 8, 10, 13, 20, 27, 29)	44	M	0	0.0	368	31.8	132	11.4	26	2.3	526	45.5
			F	0	0.0	500	43.2	132	11.4	0	0.0	632	54.5
			Subtotal	0	0.0	869	75.0	263	22.7	26	2.3	1,158	100.0
	Season	359	M	56	0.4	5,390	40.9	1,924	14.6	26	0.2	7,396	56.1
			F	0	0.0	4,850	36.8	949	7.2	0	0.0	5,798	43.9
			Total	56	0.4	10,240	77.6	2,873	21.8	26	0.2	13,194	100.0
1991	6/20 (6/20)	56	M	2	1.8	59	42.9	24	17.9	0	0.0	86	62.5
			F	0	0.0	22	16.1	29	21.4	0	0.0	51	37.5
			Subtotal	2	1.8	81	59.0	54	39.3	0	0.0	137	100.0
	6/27 (6/27)	63	M	0	0.0	241	31.7	241	31.7	0	0.0	481	63.5
			F	0	0.0	144	19.0	133	17.5	0	0.0	277	36.5
			Subtotal	0	0.0	385	50.7	373	49.2	0	0.0	758	100.0
	7/1 (7/1)	117	M	0	0.0	327	38.5	116	13.7	0	0.0	443	52.2
			F	8	0.9	283	33.3	116	13.7	0	0.0	407	47.9
			Subtotal	8	0.9	610	71.8	233	27.4	0	0.0	850	100.0
	7/6 (7/6, 8)	43	M	0	0.0	978	32.6	348	11.6	0	0.0	1,326	44.2
			F	0	0.0	1,256	41.9	419	14.0	0	0.0	1,675	55.8
			Subtotal	0	0.0	2,233	74.5	767	25.6	0	0.0	2,999	100.0
	7/11 (7/11)	36	M	0	0.0	656	33.3	110	5.6	0	0.0	766	38.9
			F	0	0.0	1,095	55.6	110	5.6	0	0.0	1,205	61.1
			Subtotal	0	0.0	1,752	88.9	220	11.2	0	0.0	1,971	100.0

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 3 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1991 (cont.)	7/13 (7/13 - 14)	74	M	32	1.4	1,020	44.6	371	16.2	0	0.0	1,423	62.2
			F	0	0.0	711	31.1	155	6.8	0	0.0	866	37.8
			Subtotal	32	1.4	1,731	75.7	526	23.0	0	0.0	2,288	100.0
	7/22 (7/17- 20, 22, 23)	97	M	144	3.1	2,018	43.3	47	1.0	0	0.0	2,209	47.4
			F	48	1.0	2,211	47.4	192	4.1	0	0.0	2,451	52.6
			Subtotal	192	4.1	4,229	90.7	239	5.1	0	0.0	4,661	100.0
	7/26, 31 (7/24- 27, 29- 31; 8/1- 2, 5, 9, 14, 16, 19, 21)	79	M	0	0.0	620	27.8	226	10.1	0	0.0	846	38.0
			F	85	3.8	1,043	46.8	254	11.4	0	0.0	1,382	62.0
			Subtotal	85	3.8	1,664	74.7	479	21.5	0	0.0	2,228	100.0
	Season	565	M	179	1.1	5,919	37.2	1,482	9.3	0	0.0	7,580	47.7
			F	140	0.9	6,765	42.6	1,408	8.9	0	0.0	8,314	52.3
			Total	319	2.0	12,685	79.8	2,890	18.2	0	0.0	15,892	100.0
1992	6/22 (6/22, 25)	24	M	0	0.0	165	4.2	1,477	37.5	165	4.2	1,807	45.8
			F	0	0.0	0	0.0	1,971	50.0	165	4.2	2,136	54.2
			Subtotal	0	0.0	165	4.2	3,448	87.5	330	8.4	3,942	100.0
	7/2 (6/29; 7/2, 6)	53	M	0	0.0	290	3.8	2,164	28.3	0	0.0	2,454	32.1
			F	0	0.0	434	5.7	4,763	62.3	0	0.0	5,197	67.9
			Subtotal	0	0.0	724	9.5	6,927	90.6	0	0.0	7,649	100.0
	7/13 (7/9, 10, 13, 14)	68	M	0	0.0	321	7.4	1,848	42.6	0	0.0	2,170	50.0
			F	0	0.0	764	17.6	1,406	32.4	0	0.0	2,170	50.0
			Subtotal	0	0.0	1,085	25.0	3,254	75.0	0	0.0	4,339	100.0
	7/16 (7/16, 17)	66	M	0	0.0	100	9.1	381	34.8	0	0.0	481	43.9
			F	0	0.0	183	16.7	431	39.4	0	0.0	614	56.1
			Subtotal	0	0.0	283	25.8	812	74.2	0	0.0	1,095	100.0
	7/20 (7/20, 21)	14	M	0	0.0	125	21.4	84	14.3	0	0.0	209	35.7
			F	0	0.0	84	14.3	251	42.9	42	7.1	377	64.3
			Subtotal	0	0.0	209	35.7	335	57.2	42	7.1	586	100.0
	7/23 (7/23, 24)	165	M	0	0.0	66	12.1	152	27.9	0	0.0	218	40.0
			F	0	0.0	79	14.5	241	44.2	7	1.2	327	60.0
			Subtotal	0	0.0	145	26.6	393	72.1	7	1.2	545	100.0
	7/30 (7/27, 28, 30, 31; 8/3, 6, 10, 14, 20, 24, 27, 28, 31; 9/4)	28	M	0	0.0	52	14.3	130	35.7	0	0.0	182	50.0
			F	0	0.0	26	7.1	156	42.9	0	0.0	182	50.0
			Subtotal	0	0.0	78	21.4	286	78.6	0	0.0	364	100.0
	Season	418	M	0	0.0	1,119	6.0	6,236	33.7	165	0.9	7,520	40.6
			F	0	0.0	1,569	8.5	9,220	49.8	213	1.2	11,002	59.4
			Total	0	0.0	2,688	14.5	15,456	83.5	378	2.0	18,520	100.0
1993 [c]	(6/28, 30)	0	M										
			F										
			Subtotal									1,619	
	(7/2, 5)	0	M										
			F										
			Subtotal									1,492	

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 4 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1993 (cont.)	(7/7)	0	M										
			F										
			Subtotal									1,036	
	7/9	191	M	5	0.5	177	17.3	225	22.0	65	6.3	472	46.1
	(7/9)		F	0	0.0	241	23.6	273	26.7	38	3.7	552	53.9
			Subtotal	5	0.5	419	40.9	498	48.7	102	10.0	1,024	100.0
	(7/12)	0	M										
			F										
			Subtotal									1,501	
	(7/14)	0	M										
			F										
			Subtotal									1,372	
	(7/16)	0	M										
			F										
			Subtotal									1,105	
	(7/19, 21, 23, 26, 28, 30; 8/2, 4, 6, 9, 13, 16, 18, 23, 26, 28; 9/1)	0	M										
			F										
			Subtotal									1,508	
	Season	191	M										
			F										
			Total									10,657	
1994 [c]	(6/27)	0	M										
			F										
			Subtotal									2,364	
	(6/30)	0	M										
			F										
			Subtotal									2,907	
	(7/4)	0	M										
			F										
			Subtotal									4,075	
	7/6	189	M	0	0.0	774	19.0	282	6.9	22	0.5	1,079	26.5
	(7/6)		F	0	0.0	1,920	47.1	970	23.8	106	2.6	2,996	73.5
			Total	0	0.0	2,694	66.1	1,253	30.7	128	3.1	4,076	100.0
	(7/8)	0	M										
			F										
			Subtotal									2,669	
	7/11 - 12	192	M	57	1.0	974	17.7	401	7.3	0	0.0	1,432	26.0
	(7/11 - 12)		F	29	0.5	2,835	51.6	1,145	20.8	57	1.0	4,066	74.0
			Total	86	1.6	3,809	69.3	1,546	28.1	57	1.0	5,498	100.0
	(7/14 - 15)	0	M										
			F										
			Subtotal									3,296	

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 5 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1994 (cont.)	(7/19)	0	M										
			F										
			Subtotal									1,470	
	7/21	131	M	0	0.0	116	20.6	47	8.4	9	1.5	172	30.5
	(7/21)		F	4	0.8	301	53.4	69	12.2	17	3.1	391	69.5
			Total	4	0.8	417	74.0	116	20.6	26	4.6	563	100.0
	(7/23, 25, 27, 29; 8/2- 3, 5, 8, 10, 12, 15, 17, 19, 22, 29, 31; 9/2, 5, 7)	0	M										
			F										
			Subtotal									1,559	
	Season	512	M										
			F										
			Total									28,477	
1995 [c]	(6/29)	0	M										
			F										
			Subtotal									1,242	
	(7/3)	0	M										
			F										
			Subtotal									2,540	
	(7/5)	0	M										
			F										
			Subtotal									1,324	
	7/7	176	M	24	0.6	585	13.6	928	21.6	24	0.6	1,562	36.4
	(7/7 - 8)		F	98	2.3	708	16.5	1,380	43.8	49	1.1	2,735	63.6
			Subtotal	122	2.8	1,293	30.1	2,308	65.4	73	1.7	4,297	100.0
	(7/10 - 11)	0	M										
			F										
			Subtotal									4,835	
	(7/13 - 14)	0	M										
			F										
			Subtotal									1,361	
	7/17	179	M	118	5.6	355	16.8	448	21.2	23	1.1	945	44.7
	(7/17 - 18)		F	71	3.4	437	20.7	662	31.3	0	0.0	1,170	55.3
			Subtotal	190	9.0	792	37.5	1,110	52.5	23	1.1	2,115	100.0
	(7/20 - 21)	0	M										
			F										
			Subtotal									1,187	
	(7/24, 26, 28, 31; 8/2, 7, 11, 14, 16, 18, 21, 25, 28; 9/1)	0	M										
			F										
			Subtotal									931	
	Season	355	M										
			F										
			Total									19,832	

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 6 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 0.2 Catch	0.2 %	0.3 Catch	0.3 %	0.4 Catch	0.4 %	0.5 Catch	0.5 %	Total Catch	Total %
1996 [c]	(6/28)	0	M										
			F										
			Subtotal									1,505	
	(7/2)	0	M										
			F										
			Subtotal									2,208	
	(7/5)	0	M										
			F										
			Subtotal									1,717	
	(7/8)	0	M										
			F										
			Subtotal									1,809	
	(7/11)	0	M										
			F										
			Subtotal									1,009	
	7/15	190	M	0	0.0	296	23.2	34	2.6	7	0.5	337	26.3
	(7/15)		F	0	0.0	841	65.8	81	6.3	20	1.6	942	73.7
			Total	0	0.0	1,138	88.9	114	8.9	27	2.1	1,279	100.0
	(7/18, 25, 27, 3 8/5, 8, 10, 12, 14, 16, 19, 21, 23, 26)	0	M										
			F										
			Subtotal									1,466	
	Season	190	M										
			F										
			Total									11,093	
1997	6/27 [d]	191	M	0	0.0	177	11.5	644	41.9	8	0.5	829	53.9
	(6/27, 30)		F	0	0.0	121	7.9	579	37.7	8	0.5	708	46.1
			Subtotal	0	0.0	298	19.4	1,223	79.6	16	1.0	1,537	100.0
	7/4 [d]	105	M	33	1.0	463	13.3	1,190	34.3	0	0.0	1,686	48.6
	(7/2, 4, 7)		F	0	0.0	165	4.8	1,620	46.7	0	0.0	1,785	51.4
			Subtotal	33	1.0	628	18.1	2,810	81.0	0	0.0	3,471	100.0
	7/11	170	M	0	0.0	500	14.7	859	25.3	20	0.6	1,379	40.6
	(7/9, 11, 14)		F	0	0.0	739	21.8	1,278	37.6	0	0.0	2,018	59.4
			Subtotal	0	0.0	1,239	36.5	2,137	62.9	20	0.6	3,396	100.0
	7/18	216	M	21	0.9	392	17.6	773	34.7	10	0.5	1,195	53.7
	(7/16, 18, 21)		F	0	0.0	381	17.1	649	29.2	0	0.0	1,031	46.3
			Subtotal	21	0.9	773	34.7	1,422	63.9	10	0.5	2,226	100.0
	7/25	123	M	18	1.6	277	25.2	259	23.6	0	0.0	554	50.4
	(7/23, 25, 28; 8/1, 4, 8, 11, 15, 20, 22, 25)		F	0	0.0	304	27.6	241	21.9	0	0.0	545	49.6
			Subtotal	18	1.6	581	52.8	500	45.5	0	0.0	1,099	100.0
	Season	805	M	72	0.6	1,808	15.4	3,725	31.8	38	0.3	5,643	48.1
			F	0	0.0	1,710	14.6	4,368	37.2	8	0.1	6,086	51.9
			Total	72	0.6	3,518	30.0	8,093	69.0	46	0.4	11,729	100.0

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Table 65. Age and sex of chum salmon from the District 5 commercial fishery (page 7 of 7).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class									
				0.2		0.3		0.4		0.5		Total	
				Catch	%	Catch	%	Catch	%	Catch	%	Catch	%
	Grand Total [e]	3,118	M	396	0.4	20,418	19.3	29,703	28.0	905	0.9	51,423	48.5
			F	179	0.2	20,628	19.5	33,387	31.5	405	0.4	54,598	51.5
			Total	574	0.5	41,047	38.7	63,090	59.5	1,310	1.2	106,016	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season is not included in the "Grand total".

[d] Sex of all fish was confirmed by visual inspection of gonads.

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 66. Mean length (mm) of chum salmon from the District 5 commercial fishery.

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
1995[a]	7/7	M	Mean Length	550	603	609	620
			Std. Error	-	6	6	-
			Range	550- 550	565- 680	540- 670	620- 620
			Sample Size	1	24	38	1
		F	Mean Length	561	563	578	600
			Std. Error	10	5	3	30
			Range	545- 590	525- 610	525- 620	570- 630
			Sample Size	4	29	77	2
	7/17	M	Mean Length	562	585	593	605
			Std. Error	8	6	6	35
			Range	515- 610	510- 660	510- 685	570- 640
			Sample size	16	30	38	2
		F	Mean Length	539	562	575	
			Std. Error	10	5	3	
			Range	515- 580	510-615	520- 630	
			Sample size	6	37	56	0
1996[a]	7/15	M	Mean Length		604	601	615
			Std. Error		4	17	-
			Range		550- 660	545- 645	615- 615
			Sample size	0	44	5	1
		F	Mean Length		569	571	577
			Std. Error		2	8	13
			Range		515- 640	525- 610	555- 600
			Sample size	0	125	12	3
1997	6/27[b] (6/27, 30)	M	Mean Length		595	618	654
			Std. Error		6	3	-
			Range		551- 661	561- 685	654- 654
			Sample Size	0	22	80	1
		F	Mean Length		567	590	620
			Std. Error		3	3	-
			Range		537- 582	53[illegible]- 643	620- 620
			Sample Size	0	15	72	1
	7/4[b] (7/2, 4, 7)	M	Mean Length	573	573	607	
			Std. Error	-	6	5	
			Range	573- 573	529- 610	539- 656	
			Sample Size	1	14	36	0
		F	Mean Length		559	578	
			Std. Error		8	4	
			Range		540- 585	499- 635	
			Sample Size	0	5	49	0

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Table 66. Mean length (mm) of chum salmon from the District 5 commercial fishery (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 0.2	0.3	0.4	0.5
	7/11 (7/9, 11, 14)	M	Mean Length		583	605	675
			Std. Error		7	4	-
			Range		520- 660	520- 640	675- 675
			Sample Size	0	25	43	1
		F	Mean Length		569	580	
			Std. Error		4	3	
			Range		525- 615	530- 625	
			Sample Size	0	37	64	0
	7/18 (7/16, 18, 21)	M	Mean Length	553	580	601	560
			Std. Error	3	4	4	-
			Range	550- 555	500- 625	500- 665	560- 560
			Sample Size	2	38	75	1
		F	Mean Length		563	575	
			Std. Error		3	3	
			Range		515- 596	495- 630	
			Sample Size	0	37	63	0
	7/25 (7/23, 25, 28; 8/1, 4, 8, 11, 15, 20, 22, 25)	M	Mean Length	525	565	586	
			Std. Error	10	5	5	
			Range	515- 535	515- 615	525- 630	
			Sample Size	2	31	29	0
		F	Mean Length		552	568	
			Std. Error		5	5	
			Range		475- 605	525- 630	
			Sample Size	0	34	27	0
	Season [c]	M	Mean Length	555	578	606	640
			Range	515- 573	500- 661	500- 685	560- 675
			Sample Size	5	130	263	3
		F	Mean Length		564	579	620
			Range		475- 615	495- 643	620- 620
			Sample Size	0	128	275	1

[a] Sampling dates do not meet criteria for estimating escapement percentages for some or all of the strata.

[b] Sex of all fish was confirmed by visual inspection of gonads.

[c] "Season" mean lengths are weighted by the commercial harvest in each stratum.

Coho Salmon

Table 67. Age and sex of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1989[c]	8/23, 24	75	M		3.4		55.2		0.0		0.0		58.6
	Season		F		0.0		41.4		0.0		0.0		41.4
			Total		3.4		96.6		0.0		0.0		100.0
1990[d]	8/23, 26, 27	87	M	203	8.0	1,898	74.7	0	0.0	145	5.7	2,249	88.5
	29, 31; 9/1		F	28	1.1	262	10.3	0	0.0	0	0.0	292	11.5
	(8/2 - 9/1)		Subtotal	231	9.1	2,160	85.0	0	0.0	145	5.7	2,541	100.0
	9/3- 6, 8	86	M	126	3.5	2,632	73.3	0	0.0	291	8.1	3,049	84.9
	(9/2 - 10/6)		F	0	0.0	377	10.5	0	0.0	169	4.7	542	15.1
			Subtotal	126	3.5	3,009	83.8	0	0.0	460	12.8	3,591	100.0
	Season	173	M	329	5.4	4,530	73.9	0	0.0	436	7.1	5,298	86.4
			F	28	0.5	639	10.4	0	0.0	169	2.8	834	13.6
			Total	357	5.8	5,169	84.3	0	0.0	604	9.9	6,132	100.0
1991	8/16 - 19	75	M	29	4.0	424	58.7	0	0.0	29	4.0	482	66.7
	(8/3 - 19)		F	9	1.3	222	30.7	0	0.0	9	1.3	241	33.3
			Subtotal	38	5.3	646	89.4	0	0.0	38	5.3	723	100.0
	8/20 - 23	69	M	10	2.9	232	68.1	0	0.0	5	1.4	247	72.5
	(8/20 - 23)		F	0	0.0	89	26.1	0	0.0	5	1.4	94	27.5
			Subtotal	10	2.9	320	94.2	0	0.0	10	2.8	340	100.0
	8/25 - 29	92	M	44	2.2	1,420	71.7	0	0.0	65	3.3	1,529	77.2
	(8/24 - 9/3)		F	0	0.0	430	21.7	0	0.0	22	1.1	452	22.8
			Subtotal	44	2.2	1,850	93.4	0	0.0	87	4.4	1,981	100.0
	9/9 - 10	49	M	0	0.0	1,389	44.9	0	0.0	0	0.0	1,389	44.9
	(9/4 - 10)		F	62	2.0	1,642	53.1	0	0.0	0	0.0	1,704	55.1
			Subtotal	62	2.0	3,031	98.0	0	0.0	0	0.0	3,093	100.0
	9/11 - 12	82	M	11	1.2	263	29.3	0	0.0	55	6.1	328	36.6
	(9/11 - 14)		F	11	1.2	525	58.5	0	0.0	33	3.7	569	63.4
			Subtotal	22	2.4	788	87.6	0	0.0	88	9.8	897	100.0
	9/15	10	M	0	0.0	1,757	60.0	0	0.0	0	0.0	1,757	60.0
	(9/15 - 10/4)		F	0	0.0	1,172	40.0	0	0.0	0	0.0	1,172	40.0
			Subtotal	0	0.0	2,929	100.0	0	0.0	0	0.0	2,929	100.0
	Season	377	M	93	0.9	5,485	55.1	0	0.0	154	1.5	5,733	57.5
			F	82	0.8	4,079	40.9	0	0.0	69	0.7	4,230	42.5
			Total	175	1.8	9,565	96.0	0	0.0	223	2.2	9,963	100.0
1992[c]	7/16 - 18	158	M	579	20.3	1,281	44.9	0	0.0	126	4.4	1,986	69.6
	Season		F	180	6.3	651	22.8	0	0.0	37	1.3	868	30.4
			Total	759	26.6	1,932	67.7	0	0.0	163	5.7	2,854	100.0
1993	9/1 - 3	157	M	82	1.9	2,392	55.4	0	0.0	108	2.5	2,586	59.9
	Season		F	26	0.6	1,679	38.9	0	0.0	26	0.6	1,731	40.1
			Total	108	2.5	4,071	94.3	0	0.0	134	3.1	4,317	100.0
1994	8/24 - 26	155	M	0	0.0	8,391	53.5	0	0.0	298	1.9	8,705	55.5
	(6/17 - 8/27)		F	94	0.6	6,572	41.9	0	0.0	298	1.9	6,979	44.5
			Subtotal	94	0.6	14,963	95.4	0	0.0	596	3.8	15,684	100.0
	8/29 - 31	151	M	112	1.3	3,428	39.7	0	0.0	630	7.3	4,170	48.3
	(8/28 - 9/3)		F	173	2.0	3,488	40.4	0	0.0	803	9.3	4,464	51.7
			Subtotal	285	3.3	6,916	80.1	0	0.0	1,433	16.6	8,634	100.0

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Table 67. Age and sex of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1994 (cont.)	9/5 - 7 (9/4- 26)	157	M	62	0.6	4,556	43.9	0	0.0	591	5.7	5,220	50.3
			F	62	0.6	4,825	46.5	0	0.0	259	2.5	5,157	49.7
			Subtotal	125	1.2	9,381	90.4	0	0.0	851	8.2	10,377	100.0
	Season	463	M	175	0.5	16,374	47.2	0	0.0	1,520	4.4	18,094	52.2
			F	329	0.9	14,885	42.9	0	0.0	1,360	3.9	16,601	47.8
			Total	504	1.5	31,259	90.1	0	0.0	2,880	8.3	34,695	100.0
1995	8/17- 18 (7/19 - 8/19)	95	M	85	8.4	563	55.8	0	0.0	11	1.1	659	65.3
			F	53	5.3	255	25.3	0	0.0	42	4.2	351	34.7
			Subtotal	138	13.7	819	81.1	0	0.0	53	5.3	1,010	100.0
	8/22- 23 (8/20- 26)	103	M	122	1.9	3,971	63.1	0	0.0	367	5.8	4,460	70.9
			F	0	0.0	1,833	29.1	0	0.0	0	0.0	1,833	29.1
			Subtotal	122	1.9	5,803	92.2	0	0.0	367	5.8	6,293	100.0
	8/30- 31 (8/27 - 9/2)	102	M	340	3.9	4,164	47.6	0	0.0	340	3.9	4,929	56.3
			F	85	1.0	3,314	37.9	0	0.0	425	4.9	3,824	43.7
			Subtotal	425	4.9	7,478	85.4	0	0.0	765	8.7	8,753	100.0
	9/5- 6 (9/3- 6)	64	M	45	1.6	1,388	48.4	0	0.0	46	1.6	1,478	51.6
			F	45	1.6	1,256	43.8	0	0.0	89	3.1	1,389	48.4
			Subtotal	90	3.1	2,643	92.2	0	0.0	135	4.7	2,868	100.0
	Season	364	M	592	3.1	10,086	53.3	0	0.0	764	4.0	11,527	60.9
			F	183	1.0	6,658	35.2	0	0.0	556	2.9	7,397	39.1
			Total	775	4.1	16,743	88.5	0	0.0	1,320	7.0	18,924	100.0
1996	8/3 - 8 (7/20 - 8/12)	38	M	0	0.0	2,921	86.8	0	0.0	0	0.0	2,921	86.8
			F	0	0.0	443	13.2	0	0.0	0	0.0	443	13.2
			Subtotal	0	0.0	3,363	100.0	0	0.0	0	0.0	3,363	100.0
	8/17 - 19 (8/13 - 23)	160	M	559	3.1	10,728	60.0	0	0.0	335	1.9	11,622	65.0
			F	112	0.6	6,035	33.8	0	0.0	112	0.6	6,258	35.0
			Subtotal	671	3.8	16,763	93.8	0	0.0	447	2.5	17,880	100.0
	8/27 - 28 (8/24 - 9/2)	148	M	577	2.7	12,409	58.1	0	0.0	144	0.7	13,130	61.5
			F	144	0.7	7,936	37.2	0	0.0	144	0.7	8,225	38.5
			Subtotal	721	3.4	20,345	95.3	0	0.0	289	1.4	21,355	100.0
	9/7 - 8 (9/3 - 10)	150	M	94	1.3	3,439	48.7	0	0.0	141	2.0	3,674	52.0
			F	0	0.0	3,250	46.0	0	0.0	141	2.0	3,392	48.0
			Subtotal	94	1.3	6,689	94.7	0	0.0	283	4.0	7,066	100.0
	9/13 - 16 (9/11 - 15)	143	M	19	2.1	474	53.1	6	0.7	6	0.7	505	56.6
			F	6	0.7	336	37.8	0	0.0	44	4.9	386	43.4
			Subtotal	25	2.8	810	90.9	6	0.7	50	5.6	891	100.0
	Season	639	M	1,249	2.5	29,970	59.3	6	0.0	627	1.2	31,852	63.0
			F	262	0.5	18,000	35.6	0	0.0	441	0.9	18,703	37.0
			Total	1,511	3.0	47,970	94.9	6	0.0	1,068	2.1	50,555	100.0
1997	Season	0	M										
			F										
			Total									12,312	

- continued -

Table 67. Age and sex of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
	Grand Total [e]	2,158	M	2,770	2.3	65,588	54.1	6	0.0	3,298	2.7	71,778	59.2
			F	1,062	0.9	45,952	37.9	0	0.0	2,489	2.1	49,530	40.8
			Total	3,832	3.2	111,540	91.9	6	0.0	5,787	4.8	121,308	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The weir washed out in 1989 and 1992; these years are excluded from the "Grand Total".

[d] All 1990 Kogrukluk coho salmon scales need to be re-aged due to potential aging errors.

[e] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1989	8/23, 24	M	Mean Length	520	552		
	Season		Std. Error	-	7		
			Range	520- 520	500- 590		
			Sample Size	1	16	0	0
		F	Mean Length		557		
			Std. Error		9		
			Range		500- 595		
			Sample Size	0	12	0	0
1990	8/23, 26, 27	M	Mean Length	565	558		559
	29, 31; 9/1		Std. Error	10	3		11
	(8/2 - 9/1)		Range	523- 598	491- 603		528- 588
			Sample Size	7	65	0	5
		F	Mean Length	574	561		
			Std. Error	-	7		
			Range	574- 574	518- 581		
			Sample Size	1	9	0	0
	9/3- 6, 8	M	Mean Length	554	562		558
	(9/2 - 10/6)		Std. Error	9	3		9
			Range	537- 567	497- 620		517- 581
			Sample Size	3	63	0	7
		F	Mean Length		556		581
			Std. Error		9		8
			Range		513- 600		562- 598
			Sample Size	0	9	0	4
	Season	M	Mean Length	561	560		559
			Range	523- 598	491- 620		517- 588
			Sample Size	10	128	0	12
		F	Mean Length	574	558		581
			Range	574- 574	513 -600		562- 598
			Sample Size	1	18	0	4
1991	8/16 - 19	M	Mean Length	530	527		508
	(8/3 - 19)		Std. Error	14	6		18
			Range	505- 555	460- 605		490- 545
			Sample Size	3	44	0	3
		F	Mean Length	530	539		565
			Std. Error	-	7		-
			Range	530- 530	480- 600		565- 565
			Sample Size	1	23	0	1

- continued -

Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 2 of 6).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1991 (cont.)	8/20 - 23 (8/20 - 23)	M	Mean Length	513	555		520
			Std. Error	18	5		-
			Range	495- 530	485- 630		520- 520
			Sample Size	2	47	0	1
		F	Mean Length		563		545
			Std. Error		6		-
			Range		510- 605		545- 545
			Sample Size	0	18	0	1
	8/25 - 29 (8/24 - 9/3)	M	Mean Length	530	555		507
			Std. Error	-	5		18
			Range	530- 530	435- 625		480- 540
			Sample Size	2	66	0	3
		F	Mean Length		554		550
			Std. Error		7		-
			Range		475- 600		550- 550
			Sample size	0	20	0	1
	9/9 - 10 (9/4 - 10)	M	Mean Length		566		
			Std. Error		9		
			Range		455- 630		
			Sample Size	0	22	0	0
		F	Mean Length	565	562		
			Std. Error	-	6		
			Range	565- 565	495- 625		
			Sample Size	1	26	0	0
	9/11 - 12 (9/11 - 14)	M	Mean Length	580	560		588
			Std. Error	-	8		4
			Range	580- 580	475- 630		580- 600
			Sample Size	1	23	0	5
		F	Mean Length	515	547		560
			Std. Error	-	4		20
			Range	515- 515	465- 600		540- 580
			Sample Size	1	41	0	2
	9/15 (9/15 - 10/4)	M	Mean Length		570		
			Std. Error		12		
			Range		530- 620		
			Sample Size	0	7	0	0
		F	Mean Length		560		570
			Std. Error		9		-
			Range		520- 610		570- 570
			Sample Size	0	11	0	1

- continued -

Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 3 of 6).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1991 (cont.)	Season	M	Mean Length	534	561		536
			Range	495- 580	435- 630		480- 600
			Sample Size	8	209	0	12
		F	Mean Length	554	557		556
			Range	515- 565	465- 625		540- 580
			Sample Size	3	139	0	6
1992	7/16 - 18 Season	M	Mean Length	564	566		568
			Std. Error	6	3		8
			Range	495- 645	480- 650		530- 595
			Sample Size	32	71	0	7
		F	Mean Length	545	561		580
			Std. Error	8	5		20
			Range	505- 575	495- 640		560- 600
			Sample size	10	36	0	2
1993	9/1 - 3 Season	M	Mean Length	543	566		577
			Std. Error	25	4		5
			Range	505- 590	485- 660		570- 590
			Sample Size	3	87	0	4
		F	Mean Length	600	562		530
			Std. Error	-	4		-
			Range	600- 600	505- 665		530- 530
			Sample Size	1	61	0	1
1994	8/24 - 26 (6/17 - 8/27)	M	Mean Length		584		575
			Std. Error		4		15
			Range		455- 660		560- 605
			Sample Size	0	83	0	3
		F	Mean Length	610	576		568
			Std. Error	-	3		13
			Range	610- 610	560- 620		555- 595
			Sample Size	1	65	0	3
	8/29 - 31 (8/28 - 9/3)	M	Mean Length	560	586		573
			Std. Error	-	5		6
			Range	560- 560	505- 695		545- 610
			Sample Size	2	60	0	11
		F	Mean Length	560	572		568
			Std. Error	16	3		6
			Range	530- 585	500- 650		500- 605
			Sample Size	3	61	0	14

- continued -

Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 4 of 6).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1994 (cont.)	9/5 - 7 (9/4- 26)	M	Mean Length	595	592		601
			Std. Error	-	4		12
			Range	595- 595	505- 655		540- 655
			Sample Size	1	69	0	9
		F	Mean Length	565	574		609
			Std. Error	-	4		21
			Range	565- 565	465- 625		550- 650
			Sample Size	1	73	0	4
	Season	M	Mean Length	572	587		584
			Range	560- 595	455- 695		540- 655
			Sample Size	3	212	0	23
		F	Mean Length	575	574		576
			Range	530- 610	465- 650		500- 650
			Sample size	5	199	0	21
1995	8/17- 18 (7/19 - 8/19)	M	Mean Length	545	554		585
			Std. Error	7	6		-
			Range	520- 575	435- 625		585- 585
			Sample Size	8	53	0	1
		F	Mean Length	552	565		573
			Std. Error	19	6		19
			Range	490- 585	495- 620		540- 625
			Sample size	5	24	0	4
	8/22- 23 (8/20- 26)	M	Mean Length	560	545		564
			Std. Error	20	4		12
			Range	540- 580	465- 595		515- 600
			Sample Size	2	65	0	6
		F	Mean Length		561		
			Std. Error		5		
			Range		500- 610		
			Sample Size	0	30	0	0
	8/30- 31 (8/27 - 9/2)	M	Mean Length	565	558		555
			Std. Error	16	5		18
			Range	535- 600	495- 620		510- 595
			Sample Size	4	49	0	4
		F	Mean Length	600	557		545
			Std. Error	-	3		24
			Range	600- 600	510- 585		450- 580
			Sample Size	1	39	0	5

- continued -

Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 5 of 6).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1995 (cont.)	9/5- 6 (9/3- 6)	M	Mean Length	535	568		530
			Std. Error	-	6		-
			Range	535- 535	520- 630		530- 530
			Sample Size	1	31	0	1
		F	Mean Length	575	570		553
			Std. Error	-	6		18
			Range	575- 575	470- 640		535- 570
			Sample Size	0	28	0	2
	Season	M	Mean Length	559	554		558
			Range	520- 600	435- 630		510- 600
			Sample Size	15	198	0	12
		F	Mean Length	580	561		548
			Range	490- 600	470- 640		450- 625
			Sample Size	6	121	0	11
1996	8/3 - 8 (7/20 - 8/12)	M	Mean Length		596		
			Std. Error		6		
			Range		530- 670		
			Sample Size	0	33	0	0
		F	Mean Length		578		
			Std. Error		14		
			Range		535- 620		
			Sample Size	0	5	0	0
	8/17 - 19 (8/13 - 23)	M	Mean Length	580	590		549
			Std. Error	16	3		21
			Range	540- 625	495- 655		507- 575
			Sample Size	5	96	0	3
		F	Mean Length	585	590		570
			Std. Error	-	3		-
			Range	585- 585	535- 640		570- 570
			Sample Size	1	54	0	1
	8/27 - 28 (8/24 - 9/2)	M	Mean Length	589	598		595
			Std. Error	6	3		-
			Range	580- 605	505- 655		595- 595
			Sample Size	4	86	0	1
		F	Mean Length	595	597		573
			Std. Error	-	3		-
			Range	595- 595	520- 665		573- 573
			Sample Size	1	55	0	1

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Table 68. Mean length (mm) of coho salmon at the Kogrukluk River weir based on escapement samples collected with a fish trap (page 6 of 6).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1996 (cont.)	9/7 - 8 (9/3 - 10)	M	Mean Length	620	604		600
			Std. Error	5	3		13
			Range	615- 625	520- 680		580- 625
			Sample Size	2	73	0	3
		F	Mean Length		599		570
			Std. Error		3		42
			Range		505- 650		490- 630
			Sample Size	0	69	0	3
	9/13 - 16 (9/11 - 15)	M	Mean Length	589	586	555	590
			Std. Error	5	4	-	-
			Range	580- 598	498- 690	555- 555	590- 590
			Sample Size	3	76	1	1
		F	Mean Length	600	596		609
			Std. Error	-	4		8
			Range	600- 600	540- 655		565- 630
			Sample Size	1	54	0	7
	Season	M	Mean Length	587	596	555	571
			Range	540- 670	495- 690	555- 555	507- 625
			Sample Size	14	364	1	8
		F	Mean Length	591	594		575
			Range	585- 600	505- 665		490- 630
			Sample Size	3	237	0	12
1997	No data was collected for the 1997 season.						
	Grand Total [b]	M	Mean Length	555	568	555	565
			Range	495- 670	435- 695	555- 555	480- 655
			Sample Size	86	1285	1	78
		F	Mean Length	574	566		564
			Range	490- 610	465- 665		500- 650
			Sample size	29	823	0	57

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 69. Age and sex of coho salmon at the George River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1997	8/4- 7, 10- 12	60	M	0	0	721	56.7	21	1.7	743	58.3
	(7/20 - 8/16)		F	0	0	531	41.6	0	0	530	41.7
			Subtotal	0	0	1,252	98.3	21	1.7	1,273	100.0
	8/20 - 26	71	M	0	0	1,829	64.8	40	1.4	1,868	66.2
	(8/17 - 28)		F	0	0	914	32.4	39	1.4	954	33.8
			Subtotal	0	0	2,743	97.2	79	2.8	2,822	100.0
	8/30- 31, 9/3- 4	74	M	196	4.1	2,355	48.7	0	0	2,552	52.7
	(8/29 - 9/15)		F	0	0	2,225	45.9	65	1.4	2,290	47.3
			Subtotal	196	4.1	4,580	94.6	65	1.4	4,842	100.0
	Season	205	M	196	2.2	4,905	54.9	61	0.7	5,163	57.8
			F	0	0.0	3,670	41.0	105	1.2	3,774	42.2
			Total	196	2.2	8,575	95.9	166	1.9	8,937	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 70. Mean length (mm) of coho salmon at the George River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1997	8/4- 7, 10- 12 (7/20 - 8/16)	M	Mean Length		528	534
			Std. Error		9	-
			Range		383- 615	534- 534
			Sample Size	0	34	1
		F	Mean Length		541	
			Std. Error		9	
			Range		456- 632	
			Sample Size	0	28	0
	8/20 - 26 (8/17 - 28)	M	Mean Length		554	587
			Std. Error		6	-
			Range		456- 651	587- 587
			Sample Size	0	46	1
		F	Mean Length		562	558
			Std. Error		7	-
			Range		483- 631	558- 558
			Sample Size	0	23	1
	8/30- 31, 9/3- 4 (8/29 - 9/15)	M	Mean Length	569	556	
			Std. Error	19	9	
			Range	541- 606	425- 653	
			Sample Size	3	36	0
		F	Mean Length		571	595
			Std. Error		5	-
			Range		527- 651	595- 595
			Sample Size	0	34	1
	Season	M	Mean Length	569	551	569
			Range	541- 606	383- 653	534- 587
			Sample Size	3	116	2
		F	Mean Length		564	581
			Range		456- 651	558- 595
			Sample size	0	82	2

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 71. Age and sex of coho salmon caught with 7.0 cm (2.75 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Dates	Sample Size	Sex	Age Class									
				1.1		2.1		2.2		3.1		Total	
				N	%	N	%	N	%	N	%	N	%
1995	9/7 - 13	6	M	0	0.0	3	50.0	0	0.0	1	16.7	4	66.7
			F	0	0.0	2	33.3	0	0.0	0	0.0	2	33.3
			Total	0	0.0	5	83.3	0	0.0	1	16.7	6	100.0

Table 72. Mean length (mm) of coho salmon caught with 7.0 cm (2.75 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Date	Sex		Age Class 1.1	2.1	2.2	3.1
1995	9/7 - 13	M	Mean Length		575		
			Std. Error		25		
			Range		550- 600		
			Sample Size	0	2	0	0
		F	Mean Length		582		535
			Std. Error		2		-
			Range		580- 585		535- 535
			Sample Size	0	3	0	1

Table 73. Age and sex of coho salmon caught with 10.2 cm (4.0 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Date	Sample Size	Sex	Age Class									
				1.1		2.1		2.2		3.1		Total	
				N	%	N	%	N	%	N	%	N	%
1995	8/17 - 9/13	131	M	2	1.5	74	56.5	0	0.0	2	1.5	78	59.5
			F	5	3.8	44	33.6	0	0.0	4	3.1	53	40.5
			Total	7	5.3	118	90.1	0	0.0	6	4.6	131	100.0

Table 74. Mean length (mm) of coho salmon caught with 10.2 cm (4.0 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Date	Sex		Age Class 1.1	2.1	2.2	3.1
1995	8/17 - 9/13	M	Mean Length	523	556		565
			Std. Error	43	5		30
			Range	480- 565	415- 645		535- 595
			Sample Size	2	74	0	2
		F	Mean Length	568	559		504
			Std. Error	13	6		36
			Range	540- 605	440- 615		405- 565
			Sample Size	5	44	0	4

Table 75. Age and sex of coho salmon caught with 13.7 cm (5.375 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Date	Sample Size	Sex	Age Class									
				1.1		2.1		2.2		3.1		Total	
				N	%	N	%	N	%	N	%	N	%
1995	8/17 - 9/13	161	M	5	3.1	67	41.6	0	0.0	4	2.5	76	47.2
			F	8	5.0	73	45.3	0	0.0	4	2.5	85	52.8
			Total	13	8.1	140	86.9	0	0.0	8	5.0	161	100.0

Table 76. Mean length (mm) of coho salmon caught with 13.7 cm (5.375 in) drift gillnets fished near the Aniak River sonar site.

Year	Sample Date	Sex		Age Class 1.1	2.1	2.2	3.1
1995	8/17 - 9/13	M	Mean Length	559	562		553
			Std. Error	32	6		8
			Range	435- 615	410- 635		530- 570
			Sample Size	5	66	0	4
		F	Mean Length	562	569		579
			Std. Error	11	3		5
			Range	500- 605	495- 620		565- 590
			Sample Size	8	73	0	4

Table 77. Age and sex of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Date (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1991	8/4-5, 7, 9-17	120	M	4	3.3	62	49.2	4	3.3	1	0.8	71	56.7
	(8/4 - 17)		F	0	0.0	49	39.2	0	0.0	5	4.2	55	43.3
			Subtotal	4	3.3	111	88.4	4	3.3	6	5.0	126	100.0
	8/18 - 20	106	M	0	0.0	253	58.5	4	0.9	16	3.8	274	63.2
	(8/18 - 24)		F	0	0.0	151	34.9	0	0.0	8	1.9	159	36.8
			Subtotal	0	0.0	404	93.4	4	0.9	25	5.7	433	100.0
	8/25 - 26	106	M	0	0.0	367	41.5	8	0.9	58	6.6	434	49.1
	(8/25 - 31)		F	17	1.9	400	45.3	8	0.9	25	2.8	450	50.9
			Subtotal	17	1.9	767	86.8	16	1.8	83	9.4	884	100.0
	9/1 - 2	103	M	0	0.0	908	36.9	71	2.9	167	6.8	1,147	46.6
	(9/1 - 7)		F	0	0.0	1076	43.7	25	1.0	214	8.7	1,315	53.4
			Subtotal	0	0.0	1984	80.6	96	3.9	382	15.5	2,462	100.0
	9/8 - 9	105	M	0	0.0	176	28.6	12	1.9	47	7.6	234	38.1
	(9/8 - 14)		F	0	0.0	292	47.6	35	5.7	53	8.6	380	61.9
			Subtotal	0	0.0	468	76.2	47	7.6	99	16.2	614	100.0
	9/15 - 18	107	M	1	0.9	35	26.2	1	0.9	11	8.4	48	36.4
	(9/15 - 18)		F	1	0.9	64	48.6	3	1.9	16	12.1	84	63.6
			Subtotal	2	1.8	99	74.8	4	2.8	27	20.5	132	100.0
	Season	647	M	5	0.1	1,801	38.7	100	2.2	301	6.5	2,208	47.5
			F	18	0.4	2,033	43.7	70	1.5	321	6.9	2,443	52.5
			Total	23	0.5	3,834	82.4	170	3.7	622	13.4	4,651	100.0
1992	7/28; 8/3-7	180	M	34	5.6	255	41.9	0	0.0	30	5.0	319	52.5
	9-12, 14		F	17	2.8	238	39.1	0	0.0	34	5.6	289	47.5
	(7/28 - 8/15)		Subtotal	51	8.4	492	81.0	0	0.0	64	10.6	608	100.0
	8/16 - 18	98	M	94	7.1	610	45.9	0	0.0	109	8.2	814	61.2
	(8/16 - 22)		F	0	0.0	462	34.7	0	0.0	41	3.1	516	38.8
			Subtotal	94	7.1	1,072	80.6	0	0.0	150	11.3	1,330	100.0
	8/24, 25, 29	98	M	126	4.1	1,131	36.7	0	0.0	472	15.3	1,729	56.1
	(8/23 - 29)		F	31	1.0	1,008	32.7	0	0.0	314	10.2	1,353	43.9
			Subtotal	157	5.1	2,139	69.4	0	0.0	786	25.5	3,082	100.0
	8/31; 9/1 - 3	99	M	74	3.0	1052	42.4	0	0.0	151	6.1	1,278	51.5
	(8/30 - 9/5)		F	99	4.0	903	36.4	0	0.0	201	8.1	1,203	48.5
			Subtotal	174	7.0	1955	78.8	0	0.0	352	14.2	2,481	100.0
	Season	475	M	329	4.4	3,048	40.6	0	0.0	762	10.2	4,140	55.2
			F	147	2.0	2,610	34.8	0	0.0	591	7.9	3,361	44.8
			Total	476	6.4	5,658	75.4	0	0.0	1,353	18.0	7,501	100.0
1993	7/23-25, 27-30;	59	M	0	0.0	94	55.9	0	0.0	6	3.4	100	59.3
	8/1-2, 4-5, 7		F	0	0.0	68	40.7	0	0.0	0	0.0	68	40.7
	(7/23 - 8/7)		Subtotal	0	0.0	162	96.6	0	0.0	6	3.4	168	100
	8/8 - 10	119	M	15	2.5	453	74.8	0	0.0	10	1.7	479	79.0
	(8/8 - 14)		F	0	0	127	21.0	0	0.0	0	0.0	127	21.0
			Total	15	2.5	581	95.8	0	0.0	10	1.7	606	100.0
	8/15 - 17	129	M	23	2.3	587	58.9	0	0.0	16	1.6	625	62.8
	(8/15 - 21)		F	0	0.0	348	34.9	0	0.0	23	2.3	371	37.2
			Subtotal	23	2.3	934	93.8	0	0.0	39	3.9	996	100.0
	8/22 - 25	119	M	0	0.0	843	41.8	274	13.6	54	2.7	1,191	59.1
	(8/22 - 28)		F	18	0.9	514	25.5	256	12.7	18	0.9	825	40.9
			Subtotal	18	0.9	1,357	67.3	530	26.3	73	3.6	2,016	100.0

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Table 77. Age and sex of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 2).

Year	Sample Date (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1993 (cont.)	8/29 - 31 (8/29 - 9/4)	121	M	0	0.0	1594	40.5	161	4.1	260	6.6	2,015	51.2
			F	0	0.0	1724	43.8	130	3.3	67	1.7	1,921	48.8
			Subtotal	0	0.0	3,318	84.3	291	7.4	327	8.3	3,936	100.0
	9/7 - 10 (9/5 - 10)	122	M	5	0.8	293	48.4	0	0.0	30	4.9	328	54.1
			F	0	0.0	268	44.3	0	0.0	10	1.6	278	45.9
			Subtotal	5	0.8	562	92.7	0	0.0	39	6.5	606	100.0
	Season	669	M	43	0.5	3,864	46.4	436	5.2	376	4.5	4,738	56.9
			F	18	0.2	3,050	36.6	386	4.6	118	1.4	3,590	43.1
			Total	61	0.7	6,914	83.0	821	9.9	494	5.9	8,328	100.0
1994	7/25-26; 8/1-2, 8, 10, 14-17 (6/29 - 8/20)	152	M	35	2.6	668	50.0	0	0.0	105	7.9	808	60.5
			F	0	0	439	32.9	0	0.0	88	6.6	527	39.5
			Subtotal	35	2.6	1,107	82.9	0	0.0	194	14.5	1,335	100.0
	8/21 - 22 (8/21 - 9/3)	107	M	162	3.7	2,330	53.3	0	0.0	328	7.5	2,820	64.5
			F	0	0	1,224	28.0	0	0.0	328	7.5	1,552	35.5
			Subtotal	162	3.7	3,554	81.3	0	0.0	656	15.0	4,372	100.0
	9/4 - 7 (9/4 - 11)	53	M	0	0.0	804	52.8	0	0.0	87	5.7	890	58.5
			F	0	0.0	632	41.5	0	0.0	0	0.0	632	41.5
			Subtotal	0	0.0	1,435	94.3	0	0.0	87	5.7	1,522	100.0
	Season	312	M	196	2.7	3,801	52.6	0	0.0	520	7.2	4,518	62.5
			F	0	0.0	2,295	31.7	0	0.0	416	5.8	2,711	37.5
			Total	196	2.7	6,096	84.3	0	0.0	936	12.9	7,229	100.0
	Grand Total [c]	2,103	M	574	2.1	12,514	45.2	536	1.9	1,959	7.1	15,605	56.3
			F	183	0.7	9,988	36.0	456	1.6	1,446	5.2	12,104	43.7
			Total	757	2.7	22,503	81.2	992	3.6	3,405	12.3	27,709	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 78. Mean length (mm) of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Date (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1991	8/4-5, 7, 9-17 (8/4 - 17)	M	Mean Length	476	500	525	535
			Std. Error	32	8	39	c
			Range	395- 535	395- 630	410- 585	535- 535
			Sample Size	4	59	4	1
		F	Mean Length		512		498
			Std. Error		6		32
			Range		420- 580		390- 560
			Sample Size	0	47	0	5
	8/18 - 20 (8/18 - 24)	M	Mean Length		511	510	491
			Std. Error		7	0	49
			Range		405- 605	510- 510	405- 615
			Sample Size	0	62	1	4
		F	Mean Length		508		520
			Std. Error		8		20
			Range		415- 585		500- 540
			Sample Size	0	37	0	2
	8/25 - 26 (8/25 - 31)	M	Mean Length		514	560	504
			Std. Error		8	0	22
			Range		420- 695	560- 560	425- 570
			Sample Size	0	44	1	7
		F	Mean Length	498	530	475	510
			Std. Error	8	5	0	15
			Range	490- 505	450- 590	475- 475	480- 525
			Sample Size	2	48	1	3
	9/1 - 2 (9/1 - 7)	M	Mean Length		524	503	558
			Std. Error		9	38	9
			Range		395- 625	430- 560	510- 580
			Sample Size	0	38	3	7
		F	Mean Length		526	515	526
			Std. Error		5	0	12
			Range		405- 590	515- 515	455- 585
			Sample Size	0	45	1	9
	9/8 - 9 (9/8 - 14)	M	Mean Length		550	480	555
			Std. Error		8	20	12
			Range		465- 640	460- 500	510- 595
			Sample Size	0	30	2	8
		F	Mean Length		543	529	552
			Std. Error		6	14	11
			Range		450- 620	485- 575	490- 585
			Sample Size	0	50	6	9

- continued -

Table 78. Mean length (mm) of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 2 of 5).

Year	Sample Date (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1991 (cont.)	9/15 - 18 (9/15 - 18)	M	Mean Length	410	533	510	563
			Std. Error	0	9	0	14
			Range	410- 410	400- 595	510- 510	475- 595
			Sample Size	1	28	1	9
		F	Mean Length	565	538	456	542
			Std. Error	0	5	50	9
			Range	565- 565	435- 625	415- 515	475- 590
			Sample Size	1	52	2	13
	Season	M	Mean Length	462	522	506	544
			Range	395- 535	395- 695	410- 585	405- 615
			Sample Size	5	261	12	36
		F	Mean Length	502	528	515	529
			Range	490- 565	405- 625	415- 575	390- 590
			Sample size	3	279	10	41
1992	7/28; 8/3-7 9-12, 14 (7/28 - 8/15)	M	Mean Length	512	534		536
			Std. Error	19	5		16
			Range	415- 591	428- 628	0	454- 628
			Sample Size	10	75		9
		F	Mean Length	544	558		570
			Std. Error	19	6		6
			Range	476- 590	423- 689		542- 600
			Sample Size	5	70	0	10
	8/16 - 18 (8/16 - 22)	M	Mean Length	523	545		578
			Std. Error	19	8		13
			Range	446- 602	450- 644		515- 630
			Sample Size	7	45	0	8
		F	Mean Length		563		523
			Std. Error		6		40
			Range		466- 621		449- 588
			Sample Size	0	34	0	3
	8/24, 25, 29 (8/23 - 29)	M	Mean Length	524	531		574
			Std. Error	27	11		7
			Range	489- 604	396- 639		521- 608
			Sample Size	4	36	0	15
		F	Mean Length	569	563		558
			Std. Error	-	5		8
			Range	569- 569	503- 620		509- 594
			Sample Size	1	32	0	10

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Table 78. Mean length (mm) of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 3 of 5).

Year	Sample Date (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1992 (cont.)	8/31; 9/1 - 3 (8/30 - 9/5)	M	Mean Length	566	535		573
			Std. Error	26	8		26
			Range	527- 614	448- 615		495- 640
			Sample Size	3	42	0	6
		F	Mean Length	561	573		589
			Std. Error	13	5		11
			Range	536- 598	488- 636		534- 630
			Sample Size	4	36	0	8
	Season	M	Mean Length	532	535		573
			Range	415- 614	396- 644		454- 640
			Sample Size	24	198	0	38
		F	Mean Length	561	566		567
			Range	476- 598	423- 689		449- 630
			Sample size	10	172	0	31
1993	7/23-25, 27-30; 8/1-2, 4-5, 7 (7/23 - 8/7)	M	Mean Length		514		493
			Std. Error		6		43
			Range		435- 595		450-535
			Sample Size	0	33	0	2
		F	Mean Length		535		
			Std. Error		6		
			Range		470- 585		
			Sample Size	0	24	0	0
	8/8 - 10 (8/8 - 14)	M	Mean Length	503	507		440
			Std. Error	46	6		20
			Range	435- 590	400- 605		420- 460
			Sample Size	3	89	0	2
		F	Mean Length		541		
			Std. Error		6		
			Range		480- 605		
			Sample Size	0	25	0	0
	8/15 - 17 (8/15 - 21)	M	Mean Length	522	501		493
			Std. Error	41	6		88
			Range	445- 585	395- 620		405- 580
			Sample Size	3	76	0	2
		F	Mean Length		531		535
			Std. Error		6		33
			Range		435- 595		480- 595
			Sample Size	0	45	0	3

- continued -

Table 78. Mean length (mm) of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 4 of 5).

Year	Sample Date (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1993 (cont.)	8/22 - 25 (8/22 - 28)	M	Mean Length		495	505	498
			Std. Error		8	17	42
			Range		400- 605	430- 615	445- 580
			Sample Size	0	45	15	3
		F	Mean Length	450	543	549	560
			Std. Error	0	7	8	0
			Range	450- 450	430- 605	485- 590	560- 560
			Sample Size	1	28	14	1
	8/29 - 31 (8/29 - 9/4)	M	Mean Length		536	521	508
			Std. Error		8	43	22
			Range		425- 635	415- 615	435- 585
			Sample Size	0	49	5	8
		F	Mean Length		548	565	533
			Std. Error		5	9	18
			Range		440- 610	545-590	515- 550
			Sample Size	0	53	4	2
	9/7 - 10 (9/5 - 10)	M	Mean Length	595	559		566
			Std. Error	0	5		23
			Range	595- 595	435- 630		465- 625
			Sample Size	1	59	0	6
		F	Mean Length		542		525
			Std. Error		6		0
			Range		445- 655		525- 525
			Sample Size	0	54	0	2
	Season	M	Mean Length	523	520	511	508
			Range	435- 595	395- 635	415- 615	405- 625
			Sample Size	7	351	20	23
		F	Mean Length	450	544	554	537
			Range	450- 450	430- 655	485- 590	480- 595
			Sample size	1	229	18	8
1994	7/25-26; 8/1-2, 8, 10, 14-17 (6/29 - 8/20)	M	Mean Length	435	537		524
			Std. Error	42	6		25
			Range	355- 535	435- 635		375- 625
			Sample Size	4	76	0	12
		F	Mean Length		554		565
			Std. Error		4		5
			Range		490- 605		530- 580
			Sample Size	0	50	0	10

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Table 78. Mean length (mm) of coho salmon at the Tuluksak River weir based on escapement samples collected with a fish trap (page 5 of 5).

Year	Sample Date (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1994 (cont.)	8/21 - 22 (8/21 - 9/3)	M	Mean Length	540	553		531
			Std. Error	20	8		25
			Range	505- 590	395- 655		405- 615
			Sample Size	4	57		8
		F	Mean Length		571		599
			Std. Error		5		4
			Range		520- 610		585- 615
			Sample Size	0	30	0	8
	9/4 - 7 (9/4 - 11)	M	Mean Length		571		598
			Std. Error		10		2
			Range		450- 655		595- 600
			Sample Size	0	28	0	3
		F	Mean Length		581		
			Std. Error		11		
			Range		365- 620		
			Sample Size	0	22	0	0
	Season	M	Mean Length	521	554		541
			Range	335- 590	395- 655		375- 625
			Sample Size	8	161	0	23
		F	Mean Length		571		592
			Range		365- 620		530- 615
			Sample size	0	102	0	18
	Grand Total [b]	M	Mean Length	510	533	509	541
			Range	395- 614	395- 695	410- 615	375- 640
			Sample Size	44	971	32	120
		F	Mean Length	504	552	535	556
			Range	450- 598	365- 655	415- 590	390- 630
			Sample size	14	782	28	98

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

[b] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 79. Age and sex of coho salmon at the Kwethluk River weir based on escapement samples collected with a fish trap.[ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1992	7/19-21, 27-31	56	M	16	7.1	102	44.6	12	5.4	131	57.1
	(7/19 -8/1)		F	4	1.8	86	37.5	8	3.6	98	42.9
			Subtotal	20	8.9	188	82.1	21	9	229	100.0
	8/4 - 6	121	M	116	11.6	454	45.4	17	1.7	586	58.7
	(8/2 - 8)		F	74	7.4	314	31.4	25	2.5	413	41.3
			Subtotal	190	19	767	76.8	42	4.2	999	100.0
	8/10 - 11	133	M	230	6.8	1,627	48.1	27	0.8	1,880	55.6
	(8/9 - 15)		F	254	7.5	1,092	32.3	152	4.5	1,502	44.4
			Subtotal	484	14.3	2,719	80.4	179	5.3	3,382	100.0
	8/16 - 18	126	M	526	8.7	3,072	50.8	48	0.8	3,647	60.3
	(8/16 - 22)		F	290	4.8	1,966	32.5	145	2.4	2,401	39.7
			Subtotal	816	13.5	5,038	83.3	194	3.2	6,048	100.0
	8/24, 25	125	M	1,640	8.8	8,646	46.4	149	0.8	10,435	56
	(8/23 - 29)		F	596	3.2	7,454	40	149	0.8	8,199	44
			Subtotal	2,236	12	16,100	86.4	298	1.6	18,634	100.0
	8/31	76	M	1,424	10.5	6,252	46.1	353	2.6	8,028	59.2
	(8/30 - 9/5)		F	719	5.3	4,638	34.2	176	1.3	5,533	40.8
			Subtotal	2,143	15.8	10,889	80.3	529	3.9	13,561	100.0
	9/10, 11	97	M	228	9.3	1,086	44.3	25	1	1,339	54.6
	(9/6 - 12)		F	76	3.1	910	37.1	125	5.1	1,113	45.4
			Subtotal	304	12.4	1,996	81.4	150	6.1	2,452	100.0
	Season	734	M	4,180	9.2	21,239	46.9	631	1.4	26,046	57.5
			F	2,013	4.4	16,459	36.3	781	1.7	19,259	42.5
			Total	6,193	13.7	37,698	83.2	1,412	3.1	45,305	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

Table 80. Mean length (mm) of coho salmon at the Kwethluk River weir based on escapement samples collected with a fish trap. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1992	7/19-21, 27-31 (7/19 -8/1)	M	Mean Length	523	527	573
			Std. Error	21	9	16
			Range	515- 610	440- 595	555- 605
			Sample Size	4	25	3
		F	Mean Length	530	533	538
			Std. Error	-	8	33
			Range	530-530	400- 580	505- 570
			Sample Size	1	21	2
	8/4 - 6 (8/2 - 8)	M	Mean Length	534	535	550
			Std. Error	10	6	20
			Range	450- 575	445- 630	530- 570
			Sample Size	14	55	2
		F	Mean Length	536	540	532
			Std. Error	10	5	26
			Range	480- 570	475- 595	490- 580
			Sample Size	9	38	3
	8/10 - 11 (8/9 - 15)	M	Mean Length	557	556	600
			Std. Error	15	5	-
			Range	475- 610	375- 620	600- 600
			Sample Size	9	64	1
		F	Mean Length	545	542	543
			Std. Error	8	5	17
			Range	510- 585	454- 590	505- 595
			Sample Size	10	43	6
	8/16 - 18 (8/16 - 22)	M	Mean Length	558	553	605
			Std. Error	10	6	-
			Range	500- 605	430- 640	605- 605
			Sample Size	11	64	1
		F	Mean Length	563	555	582
			Std. Error	17	5	9
			Range	520- 610	475- 600	570- 600
			Sample Size	6	41	3
	8/24, 25 (8/23 - 29)	M	Mean Length	547	574	475
			Std. Error	17	5	-
			Range	440- 625	430- 625	475- 475
			Sample Size	11	58	1
		F	Mean Length	550	567	515
			Std. Error	15	3	0
			Range	525- 590	515- 605	515- 515
			Sample Size	4	50	1

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Table 80. Mean length (mm) of coho salmon at the Kwethluk River weir based on escapement samples collected with a fish trap (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1992 (cont.)	8/31 (8/30 - 9/5)	M	Mean Length	579	563	605
			Std. Error	9	8	5
			Range	550- 610	425- 640	600- 610
			Sample Size	8	35	2
		F	Mean Length	580	556	580
			Std. Error	6	11	-
			Range	565- 595	400- 615	580- 580
			Sample Size	4	26	1
	9/10, 11 (9/6 - 12)	M	Mean Length	576	567	585
			Std. Error	6	6	-
			Range	545- 610	430- 620	585- 585
			Sample Size	9	43	1
		F	Mean Length	548	541	546
			Std. Error	29	6	24
			Range	500- 600	425- 590	480- 590
			Sample Size	3	36	5
	Season	M	Mean Length	561	565	571
			Range	440-625	375- 640	475- 610
			Sample Size	66	344	11
		F	Mean Length	561	559	553
			Range	480- 610	400- 615	480- 600
			Sample size	37	255	21

[a] "Season" mean lengths are weighted by the escapement passage in each stratum.

Table 81. Age and sex of coho salmon at the Kanektok River tower based on escapement samples collected with a beach seine.[a]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1997[b]	8/5- 8, 11- 12[c]	166	M							8,991	62.0
	(7/28 - 8/15)		F							5,511	38.0
			Subtotal							14,502	100.0
	8/18 - 20	115	M	116	1.3	3,980	45.9	351	4.0	4,448	51.3
	(8/16 - 21)		F	0	0.0	4,222	48.7	0	0.0	4,222	48.7
			Subtotal	116	1.3	8,202	94.6	351	4.0	8,670	100.0
	Season	115	M							13,439	58.0
			F							9,733	42.0
			Total							23,172	100.0

a The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

b Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".

c Sex and length information was recorded; no scales were collected.

Table 82. Mean length (mm) of coho salmon at the Kanektok River tower based on escapement samples collected with a beach seine.

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
			All lengths for this stratum are by sex only; fish were not aged.			
1997	8/5- 8, 11- 12 [a] (7/28 - 8/15)	M	Mean Length		581	
			Std. Error		4	
			Range		460- 655	
			Sample Size		103	
		F	Mean Length		597	
			Std. Error		4	
			Range		450- 640	
			Sample Size		63	
	8/18 - 20 (8/16 - 21)	M	Mean Length	590	582	642
			Std. Error	-	8	19
			Range	590- 590	465- 645	605- 665
			Sample Size	1	34	3
		F	Mean Length		604	
			Std. Error		5	
			Range		540- 658	
			Sample Size	0	23	0

[a] Sex and length information was recorded; no scales were collected.

Table 83. Age and sex of coho salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Esc.	1.1 %	2.1 Esc.	2.1 %	2.2 Esc.	2.2 %	3.1 Esc.	3.1 %	Total Esc.	Total %
1991	8/7- 8, 11- 12, 14- 21 (8/4 - 21)	87	M	0	0.0	151	59.8	0	0.0	9	3.4	160	63.2
			F	6	2.3	76	29.9	0	0.0	12	4.6	93	36.8
			Subtotal	6	2.3	227	89.66	0	0.0	20	8.0	253	100.0
	8/22 - 24 (8/22 - 25)	95	M	73	4.2	1,198	69.5	0	0.0	145	8.4	1,416	82.1
			F	0	0.0	291	16.8	0	0.0	18	1.1	309	17.9
			Subtotal	73	4.2	1,489	86.32	0	0.0	163	9.5	1,725	100.0
	Season	182	M	73	3.7	1,350	68.2	0	0.0	154	7.8	1,576	79.7
			F	6	0.3	366	18.51	0	0.0	30	1.5	402	20.3
			Total	78	4.0	1,716	86.74	0	0.0	184	9.3	1,978	100.0
1992	The weir was not operated through coho season during 1992.												
1993	The weir was not operated through coho season during 1993.												
1994	The weir was not operated through coho season during 1994.												
1995	8/15- 17 (8/1- 20)	101	M	78	4.0	1,107	56.41	0	0.0	78	4.0	1,264	64.4
			F	19	1.0	602	30.68	0	0.0	78	4.0	699	35.6
			Subtotal	98	5.0	1,710	87.09	0	0.0	156	7.9	1,963	100.0
	8/23-24 (8/21- 28)	90	M	39	1.1	1,841	53.32	0	0.0	0	0.0	1,879	54.4
			F	0	0.0	1,534	44.44	0	0.0	39	1.1	1,573	45.6
			Subtotal	39	1.1	3,375	97.76	0	0.0	39	1.1	3,452	100.0
	Season	191	M	117	2.2	2,948	54.4	0	0.0	78	1.4	3,143	58.0
			F	19	0.4	2,136	39.45	0	0.0	117	2.2	2,272	42.0
			Total	136	2.5	5,084	93.89	0	0.0	195	3.6	5,415	100.0
1996	8/9, 17-19, 22 (7/24 - 8/23)	150	M	141	1.3	6,445	59.3	76	0.7	217	2.0	6,880	63.3
			F	76	0.7	3,695	34.0	0	0.0	217	2.0	3,989	36.7
			Total	217	2.0	10,141	93.3	76	0.7	435	4.0	10,869	100.0
1997	Season	0	M										
			F										
			Total									9,619	
	Grand Total [c]	523	M	331	1.8	10,743	58.8	76	0.4	449	2.5	11,599	63.5
			F	101	0.6	6,198	33.9	0	0.0	364	2.0	6,663	36.5
			Total	432	2.4	16,941	92.8	76	0.4	813	4.5	18,262	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 84. Mean length (mm) of coho salmon at the Middle Fork Goodnews River weir based on escapement samples collected with a fish trap.

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	2.2	3.1
1996	8/9, 17-19, 22 (7/24 - 8/23)	M	Mean Length	615	606	650	628
			Std. Error	10	5	-	8
			Range	605- 625	450- 695	650- 650	620- 645
			Sample Size	2	89	1	3
		F	Mean Length	570	608		632
			Std. Error	-	5		4
			Range	570- 570	515- 670		625- 640
			Sample Size	1	51	0	3
1997			No data is available for the 1997 season.				

Table 85. Age and sex of coho salmon from the District 1 commercial fishery. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1984	7/12- 8/2	271	M	3,532	2.6	65,615	48.3	2,038	1.5	71,185	52.4
			F	2,038	1.5	60,181	44.3	2,445	1.8	64,664	47.6
			Subtotal	5,570	4.1	125,796	92.6	4,483	3.3	135,849	100.0
	8/3- 9	243	M	1,323	0.8	85,179	51.5	862	0.4	87,164	52.7
			F	3,473	2.1	73,436	44.4	1,323	0.8	78,232	47.3
			Subtotal	4,796	2.9	158,615	95.9	1,985	1.2	165,396	100.0
	8/10- 16	252	M	3,807	2.4	74,864	47.2	1,903	1.2	80,574	50.8
			F	5,076	3.2	70,423	44.4	2,538	1.6	78,036	49.2
			Subtotal	8,882	5.6	145,287	91.6	4,441	2.8	158,610	100.0
	8/17- 27	328	M	1,945	1.5	60,428	46.6	4,409	3.4	66,782	51.5
			F	3,890	3.0	56,667	43.7	2,334	1.8	62,891	48.5
			Subtotal	5,835	4.5	117,095	90.3	6,743	5.2	129,673	100.0
	8/28- 9/3	239	M	559	3.8	6,145	41.8	426	2.9	7,130	48.5
			F	676	4.6	6,101	41.5	794	5.4	7,572	51.5
			Subtotal	1,235	8.4	12,247	83.3	1,220	8.3	14,702	100.0
	Season	1,333	M	11,166	1.8	292,231	48.4	9,438	1.6	312,835	51.8
			F	15,153	2.5	266,808	44.2	9,434	1.6	291,395	48.2
			Total	26,319	4.4	559,039	92.5	18,872	3.1	604,230	100.0
1985	8/1- 5	255	M	3,466	3.9	39,459	44.4	3,110	3.5	46,035	51.8
			F	3,821	4.3	35,193	39.6	3,821	4.3	42,836	48.2
			Subtotal	7,287	8.2	74,652	84.0	6,932	7.8	88,871	100.0
	8/8- 12	239	M	5,147	3.3	79,695	51.1	2,651	1.7	87,492	56.1
			F	4,523	2.9	61,915	39.7	2,027	1.3	68,466	43.9
			Subtotal	9,669	6.2	141,610	90.8	4,679	3.0	155,958	100.0
	8/15- 19	249	M	3,976	8.4	21,487	45.4	757	1.6	26,220	55.4
			F	2,082	4.4	17,701	37.4	1,325	2.8	21,109	44.6
			Subtotal	6,058	12.8	39,188	82.8	2,082	4.4	47,329	100.0
	8/22- 29	376	M	2,608	6.9	15,381	40.7	1,096	2.9	19,084	50.5
			F	2,419	6.4	15,683	41.5	605	1.6	18,706	49.5
			Subtotal	5,026	13.3	31,063	82.2	1,701	4.5	37,790	100.0
	Season	1,119	M	15,196	4.6	156,021	47.3	7,615	2.3	178,832	54.2
			F	12,845	3.9	130,492	39.5	7,779	2.4	151,116	45.8
			Total	28,041	8.5	286,513	86.8	15,394	4.7	329,948	100.0
1986	6/31- 8/4	250	M	4,947	4.0	62,829	50.8	495	0.4	68,271	55.2
			F	2,968	2.4	52,440	42.4	0	0.0	55,409	44.8
			Subtotal	7,916	6.4	115,270	93.2	495	0.4	123,680	100.0
	8/7- 15	336	M	9,660	2.7	180,684	50.5	4,293	1.2	194,638	54.4
			F	6,440	1.8	148,125	41.4	8,587	2.4	163,152	45.6
			Subtotal	16,101	4.5	328,809	91.9	12,880	3.6	357,790	100.0
	8/17- 9/01	255	M	3,234	2.0	76,493	47.3	3,881	2.4	83,608	51.7
			F	3,881	2.4	70,994	43.9	3,234	2.0	78,110	48.3
			Subtotal	7,116	4.4	147,487	91.2	7,116	4.4	161,718	100.0

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Table875. Age and sex of coho salmon from the District 1 commercial fishery (page 2 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1986 (cont.)	Season	841	M	17,842	2.8	320,006	49.8	8,669	1.3	346,517	53.9
			F	13,290	2.1	271,560	42.2	11,821	1.8	296,671	46.1
			Total	31,132	4.8	591,566	92.0	20,491	3.2	643,188	100.0
1987	8/6	126	M	369	0.8	16,856	36.5	2,909	6.3	20,135	43.6
	(8/6)		F	4,387	9.5	17,272	37.4	4,387	9.5	26,047	56.4
			Subtotal	4,757	10.3	34,128	73.9	7,297	15.8	46,182	100.0
	8/13	111	M	7,558	7.2	33,065	31.5	4,724	4.5	45,346	43.2
	(8/13)		F	1,889	1.8	49,230	46.9	8,502	8.1	59,622	56.8
			Subtotal	9,447	9.0	82,295	78.4	13,226	12.6	104,968	100.0
	8/17, 19	158	M	2,264	1.9	43,011	36.1	10,604	8.9	55,879	46.9
	(8/17, 19)		F	2,979	2.5	50,517	42.4	9,770	8.2	63,265	53.1
			Subtotal	5,242	4.4	93,528	78.5	20,374	17.1	119,144	100.0
	8/21, 24	147	M	2,081	3.4	24,177	39.5	4,162	6.8	30,420	49.7
	(8/21, 24)		F	1,653	2.7	21,668	35.4	7,467	12.2	30,788	50.3
			Subtotal	3,734	6.1	45,845	74.9	11,630	19.0	61,208	100.0
	8/27, 31; 9/3, 7	278	M	2,918	5.8	20,023	39.8	4,176	8.3	27,116	53.9
	(8/27, 31; 9/3, 7)		F	1,459	2.9	17,759	35.3	3,974	7.9	23,192	46.1
			Subtotal	4,377	8.7	37,781	75.1	8,150	16.2	50,308	100.0
	Season	820	M	15,190	4.0	137,132	35.9	26,575	7.0	178,896	46.9
			F	12,367	3.2	156,445	41.0	34,101	8.9	202,914	53.1
			Total	27,557	7.2	293,578	76.9	60,676	15.9	381,810	100.0
1988	7/25, 28	221	M	1,053	3.6	14,273	48.8	0	0.0	15,326	52.4
	(7/25, 28)		F	263	0.9	13,513	46.2	146	0.5	13,922	47.6
			Subtotal	1,316	4.5	27,786	95.0	146	0.5	29,248	100.0
	8/1, 4	244	M	2,211	2.0	53,607	48.5	1,326	1.2	57,144	51.7
	(8/1, 4)		F	1,768	1.6	50,733	45.9	884	0.8	53,386	48.3
			Subtotal	3,979	3.6	104,340	94.4	2,211	2.0	110,530	100.0
	8/8, 10	238	M	3,654	1.7	103,161	48.0	1,719	0.8	108,534	50.5
	(8/8, 10)		F	5,373	2.5	99,293	46.2	1,719	0.8	106,385	49.5
			Subtotal	9,027	4.2	202,454	94.2	3,439	1.6	214,919	100.0
	8/15, 18	240	M	2,060	1.7	55,018	45.4	969	0.8	58,048	47.9
	(8/15, 18, 21)		F	4,605	3.8	58,532	48.3	0	0.0	63,137	52.1
			Subtotal	6,665	5.5	113,550	93.7	969	0.8	121,185	100.0
	8/27, 31	484	M	594	1.7	14,922	42.7	349	1.0	15,866	45.4
	(8/27, 31)		F	944	2.7	17,648	50.5	489	1.4	19,081	54.6
			Subtotal	1,538	4.4	32,571	93.2	839	2.4	34,947	100.0
	Season	1,427	M	9,571	1.9	240,982	47.2	4,365	0.9	254,918	49.9
			F	12,953	2.5	239,719	46.9	3,239	0.6	255,911	50.1
			Subtotal	22,525	4.4	480,701	94.1	7,604	1.5	510,829	100.0
1989	7/18, 27; 8/3	229	M	4,719	4.4	55,666	51.9	1,394	1.3	61,780	57.6
	(7/18, 27; 8/3)		F	5,148	4.8	40,329	37.6	0	0.0	45,477	42.4
			Subtotal	9,868	9.2	95,995	89.5	1,394	1.3	107,257	100.0

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Table 85. Age and sex of coho salmon from the District 1 commercial fishery (page 3 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1989 (cont.)	8/7, 9, 12 (8/7, 9, 12)	127	M	18,364	7.1	120,010	46.4	2,069	0.8	140,443	54.3
			F	4,138	1.6	107,854	41.7	6,207	2.4	118,199	45.7
			Subtotal	22,502	8.7	227,864	88.1	8,277	3.2	258,642	100.0
	8/15, 18 (8/15, 18)	132	M	870	3.0	15,172	52.3	232	0.8	16,274	56.1
			F	1,305	4.5	10,762	37.1	667	2.3	12,735	43.9
			Subtotal	2,176	7.5	25,934	89.4	899	3.1	29,009	100.0
	8/23, 26 (8/23, 26)	127	M	2,021	3.9	23,682	45.7	829	1.6	26,532	51.2
			F	2,850	5.5	22,024	42.5	415	0.8	25,289	48.8
			Subtotal	4,871	9.4	45,706	88.2	1,244	2.4	51,821	100.0
	8/29 (8/29, 9/1)	128	M	901	6.3	4,921	34.4	329	2.3	6,151	43.0
			F	787	5.5	6,823	47.7	558	3.9	8,168	57.1
			Subtotal	1,688	11.8	11,744	82.1	887	6.2	14,305	100.1
	Season	743	M	26,875	5.8	219,451	47.6	4,854	1.1	251,180	54.5
			F	14,229	3.1	187,792	40.7	7,847	1.7	209,868	45.5
			Subtotal	41,104	8.9	407,243	88.3	12,701	2.8	461,034	100.0
1990	8/1, 6, 10 (8/1, 6, 10)	222	M	2,006	1.4	77,249	53.9	5,160	3.6	84,415	58.9
			F	2,006	1.4	53,602	37.4	3,296	2.3	58,905	41.1
			Subtotal	4,013	2.8	130,851	91.3	8,456	5.9	143,320	100.0
	8/13, 16, 20, 27 (8/13, 16, 20, 27)	167	M	7,558	3.0	128,226	50.9	4,535	1.8	140,318	55.7
			F	7,558	3.0	96,484	38.3	7,558	3.0	111,599	44.3
			Subtotal	15,115	6.0	224,710	89.2	12,092	4.8	251,917	100.0
	Season	389	M	9,564	2.4	205,475	52.0	9,694	2.5	224,733	56.9
			F	9,564	2.4	150,086	38.0	10,854	2.7	170,504	43.1
			Total	19,128	4.8	355,561	90.0	20,548	5.2	395,237	100.0
1991	7/25 (7/25)	89	M	94	1.1	5,844	68.6	94	1.1	6,031	70.8
			F	0	0.0	2,488	29.2	0	0.0	2,488	29.2
			Subtotal	94	1.1	8,332	97.8	94	1.1	8,519	100.0
	8/1 (7/29, 8/1)	94	M	4,827	6.4	38,467	51.0	4,827	6.4	48,121	63.8
			F	2,414	3.2	23,306	30.9	1,584	2.1	27,304	36.2
			Subtotal	7,241	9.6	61,773	81.9	6,411	8.5	75,425	100.0
	8/8 (8/5, 8, 12)	98	M	4,858	2.0	173,659	71.5	14,816	6.1	193,332	79.6
			F	2,429	1.0	44,690	18.4	2,429	1.0	49,548	20.4
			Subtotal	7,286	3.0	218,349	89.9	17,244	7.1	242,880	100.0
	8/14 (8/14)	95	M	642	1.1	29,488	50.5	4,321	7.4	34,452	59.0
			F	1,226	2.1	20,262	34.7	2,453	4.2	23,941	41.0
			Subtotal	1,869	3.2	49,751	85.2	6,774	11.6	58,393	100.0
	8/19 (8/19)	98	M	1,147	2.0	17,553	30.6	1,778	3.1	20,479	35.7
			F	2,352	4.1	31,034	54.1	3,499	6.1	36,885	64.3
			Subtotal	3,499	6.1	48,587	84.7	5,277	9.2	57,364	100.0
	8/26 (8/26)	99	M	437	1.0	17,640	40.4	1,310	3.0	19,387	44.4
			F	2,664	6.1	20,304	46.5	1,310	3.0	24,277	55.6
			Subtotal	3,100	7.1	37,944	86.9	2,620	6.0	43,664	100.0

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Table 85. Age and sex of coho salmon from the District 1 commercial fishery (page 4 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1991 (cont.)	Season	573	M	12,005	2.5	282,652	58.1	27,146	5.6	321,803	66.2
			F	11,084	2.3	142,084	29.2	11,274	2.3	164,442	33.8
			Total	23,089	4.7	424,736	87.4	38,420	7.9	486,245	100.0
1992	8/3	151	M	12,624	9.3	56,604	41.7	950	0.7	70,178	51.7
	(8/3, 6)		F	5,430	4.0	56,604	41.7	3,529	2.6	65,563	48.3
			Subtotal	18,054	13.3	113,208	83.4	4,479	3.3	135,741	100.0
	8/11	191	M	19,700	7.3	111,724	41.4	12,684	4.7	144,107	53.4
	(8/11, 14)		F	11,334	4.2	113,073	41.9	1,349	0.5	125,757	46.6
			Subtotal	31,034	11.5	224,797	83.3	14,033	5.2	269,864	100.0
	8/17		M	9,774	6.4	49,329	32.3	3,971	2.6	63,073	41.3
	(8/17, 21)	155	F	13,745	9.0	71,015	46.5	4,887	3.2	89,647	58.7
			Subtotal	23,519	15.4	120,343	78.8	8,858	5.8	152,720	100.0
	8/24	155	M	3,998	7.1	22,523	40.0	1,070	1.9	27,590	49.0
	(8/27, 27)		F	5,462	9.7	21,791	38.7	1,464	2.6	28,717	51.0
			Subtotal	9,460	16.8	44,314	78.7	2,534	4.5	56,307	100.0
	8/31	152	M	1,900	11.2	6,361	37.5	441	2.6	8,702	51.3
	(8/31)		F	1,119	6.6	6,242	36.8	899	5.3	8,260	48.7
			Subtotal	3,019	17.8	12,603	74.3	1,340	7.9	16,962	100.0
	Season	804	M	47,996	7.6	246,540	39.0	19,115	3.0	313,651	49.7
			F	37,090	5.9	268,725	42.5	12,129	1.9	317,943	50.3
			Total	85,086	13.5	515,264	81.6	31,244	4.9	631,594	100.0
1993	7/31	153	M	6,394	3.3	92,422	47.7	2,519	1.3	101,334	52.3
	(7/31, 8/4)		F	2,519	1.3	87,384	45.1	2,519	1.3	92,422	47.7
			Subtotal	8,913	4.6	179,806	92.8	5,038	2.6	193,756	100.0
	8/6	155	M	7,246	3.2	109,598	48.4	5,888	2.6	122,732	54.2
	(8/6, 9, 14)		F	4,302	1.9	96,465	42.6	2,944	1.3	103,711	45.8
			Subtotal	11,549	5.1	206,063	91.0	8,831	3.9	226,443	100.0
	8/21	120	M	2,386	1.7	62,034	44.2	3,509	2.5	67,929	48.4
	(8/17, 21, 25)		F	9,403	6.7	63,017	44.9	0	0.0	72,420	51.6
			Subtotal	11,789	8.4	125,051	89.1	3,509	2.5	140,349	100.0
	8/28	112	M	1,392	5.4	11,060	42.9	0	0.0	12,453	48.3
	(8/28, 9/1)		F	464	1.8	12,865	49.9	0	0.0	13,329	51.7
			Subtotal	1,856	7.2	23,926	92.8	0	0.0	25,782	100.0
	Season	540	M	17,418	3.0	275,115	46.9	11,915	2.0	304,448	51.9
			F	16,689	2.8	259,731	44.3	5,463	0.9	281,882	48.1
			Total	34,107	5.8	534,845	91.2	17,378	3.0	586,330	100.0
1994	7/24	141	M	3,597	2.9	61,157	49.3	7,939	6.4	72,694	58.6
	(7/24, 26, 29)		F	1,737	1.4	45,155	36.4	4,466	3.6	51,357	41.4
			Subtotal	5,334	4.3	106,312	85.7	12,405	10.0	124,051	100.0
	8/4	144	M	7,178	3.5	145,199	70.8	14,151	6.9	166,528	81.2
	(8/4, 9)		F	2,871	1.4	28,507	13.9	7,178	3.5	38,556	18.8
			Subtotal	10,049	4.9	173,706	84.7	21,329	10.4	205,084	100.0

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Table 85. Age and sex of coho salmon from the District 1 commercial fishery (page 5 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1994 (cont.)	8/12 (8/12, 15)	132	M	6,295	3.8	55,163	33.3	7,454	4.5	68,912	41.6
			F	2,485	1.5	87,963	53.1	6,295	3.8	96,743	58.4
			Subtotal	8,780	5.3	143,126	86.4	13,749	8.3	165,655	100.0
	8/18 (8/18, 22)	137	M	10,144	8.0	54,653	43.1	6,467	5.1	71,264	56.2
			F	6,467	5.1	42,606	33.6	6,467	5.1	55,540	43.8
			Subtotal	16,611	13.1	97,259	76.7	12,934	10.2	126,804	100.0
	8/25 (8/25, 27)	134	M	1,744	3.0	28,828	49.6	2,209	3.8	32,780	56.4
			F	2,615	4.5	19,645	33.8	3,080	5.3	25,341	43.6
			Subtotal	4,359	7.5	48,473	83.4	5,289	9.1	58,121	100.0
	8/30 (8/30, 9/2)	138	M	310	2.9	4,646	43.5	459	4.3	5,415	50.7
			F	619	5.8	4,411	41.3	235	2.2	5,266	49.3
			Subtotal	929	8.7	9,057	84.8	694	6.5	10,681	100.0
	Season	826	M	29,268	4.2	349,647	50.6	38,679	5.6	417,594	60.5
			F	16,795	2.4	228,286	33.1	27,721	4.0	272,802	39.5
			Total	46,063	6.7	577,933	83.7	66,400	9.6	690,396	100.0
1995	8/4 (7/10, 14, 18, 21; 8/4, 8)	138	M	16,284	10.9	62,299	41.7	4,333	2.9	82,916	55.5
			F	7,619	5.1	53,484	35.8	5,378	3.6	66,482	44.5
			Subtotal	23,904	16.0	115,783	77.5	9,711	6.5	149,398	100.0
	8/12 (8/12, 16)	151	M	15,636	9.3	72,298	43.0	7,734	4.6	95,668	56.9
			F	6,725	4.0	56,829	33.8	8,911	5.3	72,466	43.1
			Subtotal	22,362	13.3	129,127	76.8	16,645	9.9	168,134	100.0
	8/19 (8/19, 22)	117	M	3,657	4.3	42,858	50.4	3,657	4.3	50,171	59.0
			F	1,446	1.7	29,762	35.0	3,657	4.3	34,864	41.0
			Subtotal	5,102	6.0	72,620	85.4	7,313	8.6	85,035	100.0
	8/29 (8/26, 29; 9/1)	159	M	3,004	5.7	18,867	35.8	1,318	2.5	23,189	44.0
			F	1,634	3.1	24,559	46.6	3,320	6.3	29,513	56.0
			Subtotal	4,638	8.8	43,426	82.4	4,638	8.8	52,702	100.0
	Season	565	M	38,581	8.5	196,322	43.1	17,041	3.7	251,944	55.3
			F	17,424	3.8	164,635	36.2	21,266	4.7	203,325	44.7
			Total	56,005	12.3	360,957	79.3	38,307	8.4	455,269	100.0
1996	7/19 (6/17, 20, 24; 7/2, 5, 8, 12, 16, 19, 22)	144	M	497	0.7	28,301	39.6	0	0.0	28,798	40.3
			F	497	0.7	42,204	59.0	0	0.0	42,700	59.7
			Subtotal	993	1.4	70,505	98.6	0	0.0	71,498	100.0
	7/29 (7/25, 29, 31)	153	M	4,985	1.3	199,402	52.3	0	0.0	204,387	53.6
			F	2,493	0.7	171,984	45.1	2,493	0.7	176,969	46.4
			Subtotal	7,478	2.0	371,386	97.4	2,493	0.7	381,356	100.0
	8/7 (8/3, 7, 10)	152	M	10,215	3.3	167,520	53.9	2,043	0.7	179,778	57.9
			F	2,043	0.7	128,704	41.4	0	0.0	130,747	42.1
			Subtotal	12,258	3.9	296,225	95.4	2,043	0.7	310,525	100.0
	8/16 (8/13, 16)	60	M	1,984	1.7	39,688	33.3	3,969	3.3	45,642	38.3
			F	13,891	11.7	57,548	48.3	1,984	1.7	73,423	61.7
			Subtotal	15,875	13.3	97,236	81.7	5,953	5.0	119,065	100.0

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Table 85. Age and sex of coho salmon from the District 1 commercial fishery (page 6 of 6).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1996 (cont.)	8/23 (8/20, 23, 26)	157	M	2,430	5.1	16,402	34.4	304	0.6	19,136	40.1
			F	1,215	2.5	26,122	54.8	1,215	2.5	28,551	59.9
			Subtotal	3,645	7.6	42,523	89.2	1,519	3.2	47,687	100.0
	Season	666	M	20,111	2.2	451,313	48.5	6,315	0.7	477,739	51.4
			F	20,138	2.2	426,562	45.9	5,692	0.6	452,392	48.6
			Total	40,248	4.3	877,875	94.4	12,007	1.3	930,131	100.0
1997[c]	7/31 [d,e] (7/31)	200	M							9,876	66.0
			F							5,087	34.0
			Subtotal							14,963	100.0
	8/6 [d] (8/6)	176	M	223	0.6	18,831	50.6	0	0.0	19,017	51.1
			F	186	0.5	16,710	44.9	1,265	3.4	18,199	48.9
			Subtotal	409	1.1	35,541	95.5	1,265	3.4	37,216	100.0
	8/12 [d,e] (8/12)	200	M							24,706	44.0
			F							31,443	56.0
			Subtotal							56,149	100.0
	8/18 [d] (8/18)	148	M	298	1.4	8,488	39.9	298	1.4	9,062	42.6
			F	425	2.0	11,211	52.7	574	2.7	12,211	57.4
			Subtotal	723	3.4	19,699	92.6	872	4.1	21,273	100.0
	Season [d]	324	M							62,661	48.3
			F							66,940	51.7
			Total							129,601	100.0
	Grand Total [f]	10,646	M	270,782	3.8	3,372,886	47.5	191,421	2.7	3,835,090	54.0
			F	209,620	2.9	2,892,925	40.7	168,620	2.4	3,271,165	46.0
			Total	480,403	6.8	6,265,811	88.2	360,041	5.1	7,106,241	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[d] Sex of all fish was confirmed by visual inspection of gonads.

[e] Sex and length information was recorded; no scales were collected.

[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 86. Mean length (mm) of coho salmon from the District 1 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1995	8/4 (7/10, 14, 18, 21; 8/4, 8)	M	Mean Length	549	539	548
			Std. Error	12	6	22
			Range	465- 661	435- 620	507- 600
			Sample Size	15	57	4
		F	Mean Length	546	551	549
			Std. Error	7	3	9
			Range	510- 571	500- 602	528- 571
			Sample Size	7	49	5
	8/12 (8/12, 16)	M	Mean Length	568	562	545
			Std. Error	8	4	16
			Range	528- 635	496- 618	482- 603
			Sample Size	14	65	7
		F	Mean Length	551	554	556
			Std. Error	15	3	8
			Range	485- 581	495- 610	528- 595
			Sample Size	6	51	8
	8/19 (8/19, 22)	M	Mean Length	542	574	586
			Std. Error	21	4	8
			Range	471- 598	484- 644	555- 599
			Sample Size	5	65	5
		F	Mean Length	562	566	560
			Std. Error	13	3	16
			Range	537- 580	498- 615	526- 601
			Sample Size	3	43	5
	8/29 (8/26, 29; 9/1)	M	Mean Length	575	575	586
			Std. Error	12	7	11
			Range	513- 622	474- 697	568- 619
			Sample Size	9	51	4
		F	Mean Length	566	570	586
			Std. Error	10	3	5
			Range	541- 584	469- 614	553- 603
			Sample Size	4	72	10
	Season	M	Mean Length	558	558	558
			Range	465- 635	469- 615	528- 603
			Sample size	43	238	20
		F	Mean Length	551	558	560
			Range	485- 584	435- 697	482- 619
			Sample size	20	215	28

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Table 86. Mean length (mm) of coho salmon from the District 1 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1996	7/19 (6/17, 20, 24; 7/2, 5, 8, 12, 16, 19, 22)	M	Mean Length	585	577	
			Std. Error	-	5	
			Range	585- 585	450- 634	
			Sample Size	1	57	0
		F	Mean Length	603	571	
			Std. Error	-	3	
			Range	603- 603	502- 615	
			Sample Size	1	85	0
	7/29 (7/25, 29, 31)	M	Mean Length	566	572	
			Std. Error	17	4	
			Range	549- 583	473- 670	
			Sample Size	2	80	0
		F	Mean Length	560	571	565
			Std. Error	-	3	-
			Range	560- 560	519- 613	565- 565
			Sample Size	1	69	1
	8/7 (8/3, 7, 10)	M	Mean Length	571	569	556
			Std. Error	3	3	-
			Range	562- 582	482- 633	556- 556
			Sample Size	5	82	1
		F	Mean Length	541	560	
			Std. Error	-	3	
			Range	541- 541	509- 604	
			Sample Size	1	63	0
	8/16 (8/13, 16)	M	Mean Length	614	587	586
			Std. Error	-	7	3
			Range	614- 614	517- 624	583- 589
			Sample Size	1	20	2
		F	Mean Length	577	562	553
			Std. Error	13	6	-
			Range	531- 622	477- 598	553- 553
			Sample Size	7	29	1
	8/23 (8/20, 23, 26)	M	Mean Length	599	588	633
			Std. Error	15	5	-
			Range	514- 645	492- 647	633- 633
			Sample Size	8	54	1
		F	Mean Length	578	580	570
			Std. Error	14	3	7
			Range	547- 609	504- 640	554- 588
			Sample Size	4	86	4

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Table 86. Mean length (mm) of coho salmon from the District 1 commercial fishery (page 3 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
	Season	M	Mean Length	578	573	579
			Range	514- 645	450- 670	556- 633
			Sample size	17	293	4
		F	Mean Length	572	567	562
			Range	531- 622	477- 640	553- 588
			Sample size	14	332	6
			All lengths for 7/31 are by sex only; fish were not aged.			
1997[b]	7/31 [c,d] (7/31)	M	Mean Length		556	
			Std. Error		3	
			Range		451- 634	
			Sample Size		132	
		F	Mean Length		568	
			Std. Error		3	
			Range		513- 613	
			Sample Size		68	
	8/6 [c] (8/6)	M	Mean Length	469	563	
			Std. Error	-	4	
			Range	469- 469	464- 637	
			Sample Size	1	88	0
		F	Mean Length	602	572	562
			Std. Error	-	3	12
			Range	602- 602	500- 622	518- 596
			Sample Size	1	79	6
			All lengths for 8/12 are by sex only; fish were not aged.			
	8/12 [c,d] (8/12)	M	Mean Length		564	
			Std. Error		5	
			Range		453- 639	
			Sample Size		87	
		F	Mean Length		570	
			Std. Error		3	
			Range		496- 640	
			Sample Size		112	
	8/18 [c] (8/18)	M	Mean Length	551	579	513
			Std. Error	32	6	68
			Range	519- 583	485- 652	445- 581
			Sample Size	2	59	2
		F	Mean Length	545	572	585
			Std. Error	14	3	31
			Range	518- 567	503- 628	495- 640
			Sample Size	3	77	4

-continued-

Table 86. Mean length (mm) of coho salmon from the District 1 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
	Grand Total [e]	M	Mean Length	568	566	568
			Range	465- 645	469- 615	528- 633
			Sample size	60	531	24
		F	Mean Length	562	562	561
			Range	485- 622	435- 697	482- 619
			Sample size	34	547	34

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.

[b] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[c] Sex of all fish was confirmed by visual inspection of gonads.

[d] Sex and length information was recorded; no scales were collected.

[e] "Grand Total" mean lengths are simple averages of the "Season" mean lengths.

Table 87. Age and sex of coho salmon from the District 4 commercial fishery. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1990	8/1	40	M	34	2.5	841	62.5	0	0.0	875	65.0
	(7/9, 16, 19- 21, 23- 28,		F	67	5.0	404	30.0	0	0.0	471	35.0
	30- 31; 8/1- 2)		Subtotal	101	7.5	1,245	92.5	0	0.0	1,346	100.0
	8/3	82	M	14	2.4	346	58.5	36	6.1	397	67.1
	(8/3)		F	7	1.2	137	23.2	50	8.5	195	32.9
			Subtotal	21	3.6	484	81.7	87	14.6	592	100.0
	8/6	86	M	145	7.0	1,154	55.8	48	2.3	1,346	65.1
	(8/6)		F	24	1.2	674	32.6	24	1.2	722	34.9
			Subtotal	169	8.2	1,828	88.4	72	3.5	2,068	100.0
	8/8	47	M	44	2.1	1,240	59.6	177	8.5	1,460	70.2
	(8/8)		F	0	0.0	576	27.7	44	2.1	620	29.8
			Subtotal	44	2.1	1,816	87.3	220	10.6	2,080	100.0
	8/13	140	M	41	0.7	3,259	52.9	178	2.9	3,478	56.4
	(8/13)		F	222	3.6	2,287	37.1	178	2.9	2,687	43.6
			Subtotal	263	4.3	5,547	90.0	355	5.8	6,165	100.0
	8/18	140	M	266	2.9	4,775	52.1	394	4.3	5,435	59.3
	(8/16, 18, 20)		F	394	4.3	3,208	35.0	128	1.4	3,730	40.7
			Subtotal	660	7.2	7,983	87.1	522	5.7	9,165	100.0
	8/23	72	M	154	2.8	2,218	40.3	154	2.8	2,526	45.8
	(8/23, 25, 27)		F	154	2.8	2,678	48.6	154	2.8	2,985	54.2
			Subtotal	307	5.6	4,896	88.9	307	5.6	5,510	100.0
	Season	607	M	697	2.6	13,834	51.4	986	3.7	15,517	57.6
			F	868	3.2	9,964	37.0	578	2.1	11,410	42.4
			Total	1,565	5.8	23,798	88.4	1,564	5.8	26,926	100.0
1991	7/29, 31; 8/2	52	M	103	7.7	668	50.0	26	1.9	796	59.6
	(7/15, 17, 19,		F	77	5.8	437	32.7	26	1.9	540	40.4
	22, 24, 26, 29)		Subtotal	180	13.5	1,105	82.7	51	3.8	1,336	100.0
	8/5	59	M	39	10.2	157	40.7	33	8.5	230	59.3
	(8/5)		F	20	5.1	125	32.2	13	3.4	158	40.7
			Subtotal	59	15.3	282	72.9	46	11.9	387	100.0
	8/9	71	M	181	9.9	826	45.1	103	5.6	1,110	60.6
	(8/9)		F	77	4.2	568	31.0	77	4.2	721	39.4
			Subtotal	258	14.1	1,393	76.1	179	9.8	1,831	100.0
	8/14	81	M	403	13.6	1,499	50.6	255	8.6	2,157	72.8
	(8/14)		F	145	4.9	587	19.8	74	2.5	806	27.2
			Subtotal	548	18.5	2,086	70.4	329	11.1	2,963	100.0
	8/16	79	M	426	7.6	2,195	39.2	426	7.6	3,046	54.4
	(8/16)		F	354	6.3	1,984	35.4	214	3.8	2,552	45.6
			Subtotal	779	13.9	4,179	74.6	640	11.4	5,599	100.0
	8/19	76	M	403	6.6	2,726	44.7	159	2.6	3,287	53.9
	(8/19)		F	561	9.2	1,848	30.3	403	6.6	2,812	46.1
			Subtotal	964	15.8	4,574	75.0	561	9.2	6,099	100.0

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Table 87. Age and sex of coho salmon from the District 4 commercial fishery (page 2 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1991 (cont.)	8/21	39	M	106	2.6	2,191	53.8	208	5.1	2,505	61.5
	(8/21)		F	106	2.6	1,356	33.3	106	2.6	1,568	38.5
			Subtotal	212	5.2	3,548	87.1	314	7.7	4,073	100.0
	8/23	78	M	260	1.3	6,241	30.8	1,560	7.7	8,061	39.7
	(8/23, 26, 28, 31; 9/2)		F	2,340	11.5	8,321	41.0	1,560	7.7	12,222	60.3
			Subtotal	2,600	12.8	14,562	71.8	3,120	15.4	20,283	100.0
	Season	535	M	1,920	4.5	16,504	38.8	2,768	6.5	21,192	49.8
			F	3,680	8.6	15,225	35.8	2,473	5.8	21,378	50.2
			Total	5,600	13.2	31,729	74.5	5,241	12.3	42,571	100.0
1992	8/5	144	M	1,285	9.0	6,640	46.5	500	3.5	8,425	59.0
	(7/17, 20, 22, 24,		F	985	6.9	4,655	32.6	200	1.4	5,841	40.9
	27, 29, 31; 8/3, 5, 7)		Subtotal	2,271	15.9	11,295	79.1	700	4.9	14,280	99.9
	8/10	149	M	2,874	10.7	10,638	39.6	725	2.7	14,237	53.0
	(8/10, 12, 14)		F	1,263	4.7	10,450	38.9	913	3.4	12,626	47.0
			Subtotal	4,137	15.4	21,087	78.5	1,639	6.1	26,863	100.0
	8/19	152	M	2,437	9.9	9,553	38.8	487	2.0	12,477	50.7
	(8/17, 19, 21)		F	1,938	7.9	9,718	39.5	487	2.0	12,143	49.3
			Subtotal	4,375	17.8	19,270	78.3	975	4.0	24,620	100.0
	8/24	145	M	1,996	9.7	8,828	42.8	138	0.7	10,962	53.1
	(8/24, 26, 28,		F	1,858	9.0	7,823	37.9	0	0.0	9,681	46.9
	31; 9/2, 4, 7)		Subtotal	3,854	18.7	16,651	80.7	138	0.7	20,641	100.0
	Season	590	M	8,593	9.9	35,659	41.3	1,851	2.1	46,102	53.4
			F	6,043	7.0	32,645	37.8	1,601	1.9	40,289	46.6
			Total	14,636	16.9	68,304	79.1	3,452	4.0	86,404	100.0
1993	7/30	85	M	61	3.5	920	52.9	123	7.1	1,104	63.5
	(7/16, 19, 21,		F	0	0.0	614	35.3	21	1.2	635	36.5
	23, 26, 28, 30)		Subtotal	61	3.5	1,534	88.2	144	8.3	1,739	100.0
	8/2	93	M	214	3.2	3,737	55.9	0	0.0	3,951	59.1
	(8/2, 6)		F	74	1.1	2,514	37.6	147	2.2	2,735	40.9
			Subtotal	287	4.3	6,251	93.5	147	2.2	6,686	100.0
	8/11	122	M	188	1.6	5,319	45.9	382	3.3	5,890	50.8
	(8/9, 11, 16, 18, 20,		F	188	1.6	5,414	46.7	97	0.8	5,699	49.2
	23, 25, 28; 9/1, 3, 6)		Subtotal	375	3.2	10,734	92.6	480	4.1	11,589	100.0
	Season	300	M	463	2.3	9,977	49.8	506	2.5	10,945	54.7
			F	261	1.3	8,542	42.7	265	1.3	9,069	45.3
			Total	724	3.6	18,519	92.5	771	3.9	20,014	100.0
1994	8/3	103	M	85	4.9	996	57.3	17	1.0	1,098	63.1
	(7/11, 13, 15, 18, 20, 22,		F	17	1.0	624	35.9	0	0.0	641	36.9
	25, 27, 29; 8/1, 3, 5, 8)		Subtotal	102	5.9	1,620	93.2	17	1.0	1,739	100.0
	8/17	186	M	217	3.2	3,072	45.9	108	1.6	3,397	50.8
	(8/10, 12, 15, 17, 19, 22)		F	181	2.7	3,000	44.9	108	1.6	3,289	49.2
			Subtotal	398	5.9	6,072	90.8	217	3.2	6,686	100.0

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Table 87. Age and sex of coho salmon from the District 4 commercial fishery (page 3 of 4)

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1994 (cont.)	8/31 (8/24, 26, 29, 31; 9/2, 5, 7)	140	M	243	2.1	4,717	40.7	0	0.0	4,960	42.8
			F	579	5.0	5,551	47.9	498	4.3	6,629	57.2
			Subtotal	823	7.1	10,268	88.6	498	4.3	11,589	100.0
	Season	429	M	545	2.7	8,785	43.9	125	0.6	9,455	47.2
			F	777	3.9	9,175	45.8	607	3.0	10,559	52.8
			Total	1,322	6.6	17,960	89.7	732	3.7	20,014	100.0
1995	8/2 (7/19, 21, 24, 26, 28, 31; 8/2	109	M	290	5.5	2,417	45.9	96	1.8	2,804	53.2
			F	290	5.5	2,078	39.4	96	1.8	2,464	46.8
			Subtotal	579	11.0	4,495	85.3	193	3.7	5,268	100.0
	8/4 (8/4)	79	M	270	6.3	2,121	49.4	270	6.3	2,662	62.0
			F	163	3.8	1,412	32.9	56	1.3	1,631	38.0
			Subtotal	434	10.1	3,533	82.3	326	7.6	4,293	100.0
	8/7 (8/7)	72	M	318	6.9	2,755	59.7	0	0.0	3,073	66.6
			F	129	2.8	1,412	30.6	0	0.0	1,541	33.4
			Subtotal	448	9.7	4,166	90.3	0	0.0	4,614	100.0
	8/9 (8/9, 11)	81	M	1,624	11.1	6,851	46.9	903	6.2	9,377	64.2
			F	180	1.2	4,868	33.3	180	1.2	5,227	35.8
			Subtotal	1,804	12.4	11,718	80.2	1,082	7.4	14,604	100.0
	8/16 (8/14, 16)	74	M	92	1.4	4,115	60.8	92	1.4	4,299	63.5
			F	276	4.1	1,828	27.0	365	5.4	2,470	36.5
			Subtotal	368	5.4	5,943	87.8	457	6.8	6,767	100.0
	8/18 (8/18)	82	M	358	6.1	2,007	34.1	72	1.2	2,437	41.5
			F	216	3.7	3,083	52.4	143	2.4	3,442	58.5
			Subtotal	574	9.8	5,090	86.6	215	3.7	5,879	100.0
	8/21 (8/21)	94	M	206	4.3	2,355	48.9	154	3.2	2,715	56.4
			F	0	0.0	2,050	42.6	51	1.1	2,101	43.6
			Subtotal	206	4.3	4,405	91.5	205	4.3	4,816	100.0
	8/23 (8/23, 25, 28, 30; 9/1)	62	M	958	4.8	6,767	33.9	1,298	6.5	9,023	45.2
			F	319	1.6	9,662	48.4	958	4.8	10,939	54.8
			Subtotal	1,278	6.4	16,429	82.3	2,256	11.3	19,962	100.0
	Season	653	M	4,117	6.2	29,388	44.4	2,885	4.4	36,390	55.0
			F	1,573	2.4	26,392	39.9	1,849	2.8	29,814	45.0
			Total	5,690	8.6	55,780	84.3	4,735	7.2	66,203	100.0
1996	7/27, 29 (7/11, 13, 15, 17, 20, 24, 27, 29, 31; 8/2)	150	M	447	1.3	18,789	56.0	447	1.3	19,683	58.7
			F	447	1.3	13,420	40.0	0	0.0	13,868	41.3
			Subtotal	895	2.7	32,209	96.0	447	1.3	33,551	100.0
	8/7 (8/5, 7, 9)	97	M	1,980	5.2	20,987	54.6	0	0.0	22,967	59.8
			F	1,188	3.1	13,859	36.1	396	1.0	15,443	40.2
			Subtotal	3,168	8.2	34,846	90.7	396	1.0	38,410	100.0

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Table 87. Age and sex of coho salmon from the District 4 commercial fishery (page 4 of 4).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1996 (cont.)	8/12, 14 (8/12, 14, 16)	159	M	555	2.5	13,320	60.4	139	0.6	14,014	63.5
			F	971	4.4	7,076	32.1	0	0.0	8,048	36.5
			Subtotal	1,526	6.9	20,397	92.5	139	0.6	22,062	100.0
	8/19, 21 (8/19, 21, 23, 26)	150	M	659	2.7	9,878	40.0	329	1.3	10,866	44.0
			F	823	3.3	12,512	50.7	494	2.0	13,829	56.0
			Subtotal	1,482	6.0	22,390	90.7	823	3.3	24,695	100.0
	Season	556	M	3,641	3.1	62,974	53.0	915	0.8	67,530	56.9
			F	3,430	2.9	46,868	39.5	890	0.7	51,188	43.1
			Total	7,071	6.0	109,842	92.5	1,805	1.5	118,718	100.0
1997 [c]	8/6 [d] (7/18, 21, 23, 25, 28, 30; 8/1, 4, 6, 8)	85	M	495	8.2	2,844	47.1	145	2.4	3,478	57.6
			F	0	0.0	2,554	42.3	0	0.0	2,561	42.4
			Subtotal	495	8.2	5,399	89.4	145	2.4	6,039	100.0
	8/13 [d,e] (8/13, 15)	200	M							5,118	54.0
			F							4,359	46.0
			Subtotal							9,477	100.0
	8/20 [d] (8/18, 20, 22,)	146	M	404	2.7	6,364	42.5	105	0.7	6,874	45.9
			F	314	2.1	7,592	50.7	210	1.4	8,101	54.1
			Subtotal	719	4.8	13,957	93.2	314	2.1	14,975	100.0
	8/25 [d] (8/25)	128	M	9	0.9	450	43.5	18	1.7	478	46.1
			F	9	0.9	539	52.0	10	1.0	558	53.9
			Subtotal	19	1.8	990	95.5	28	2.7	1,036	100.0
	8/28 [d,e] (8/28)	117	M							559	41.9
			F							776	58.1
			Subtotal							1,335	100.0
	Season	359	M							16,507	50.2
			F							16,355	49.8
			Total							32,862	100.0
	Grand Total	3,670	M	19,976	5.2	177,120	46.5	10,037	2.6	207,132	54.4
			F	16,633	4.4	148,812	39.1	8,263	2.2	173,707	45.6
			Total	36,608	9.6	325,932	85.6	18,299	4.8	380,850	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.

[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.

[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".

[d] Sex of all fish was confirmed by visual inspection of gonads.

[e] Sex and length information was recorded; no scales were collected.

[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 88. Mean length (mm) of coho salmon from the District 4 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1996	7/27, 29 (7/11, 13, 15, 17, 20, 24, 27, 29, 31; 8/2)	M	Mean Length	581	584	629
			Std. Error	37	5	6
			Range	544- 617	476- 659	623- 634
			Sample Size	2	84	2
		F	Mean Length	536	588	
			Std. Error	65	4	
			Range	471- 601	490- 636	
			Sample Size	2	60	0
	8/7 (8/5, 7, 9)	M	Mean Length	619	589	
			Std. Error	13	7	
			Range	569- 639	487- 696	
			Sample Size	5	53	0
		F	Mean Length	560	597	593
			Std. Error	62	4	0
			Range	441- 652	532- 633	593- 593
			Sample Size	3	35	1
	8/12, 14 (8/12, 14, 16)	M	Mean Length	605	616	660
			Std. Error	29	4	0
			Range	525- 652	510- 704	660- 660
			Sample Size	4	96	1
		F	Mean Length	612	607	
			Std. Error	11	6	
			Range	566- 648	412- 660	
			Sample Size	7	51	0
	8/19, 21 (8/19, 21, 23, 26)	M	Mean Length	563	605	609
			Std. Error	35	5	13
			Range	473- 634	509- 680	596- 621
			Sample Size	4	60	2
		F	Mean Length	612	599	581
			Std. Error	11	3	9
			Range	592- 652	504- 665	563- 594
			Sample Size	5	76	3
	Season	M	Mean Length	602	596	626
			Range	473- 652	476- 704	596- 660
			Sample size	15	293	5
		F	Mean Length	584	597	587
			Range	441-652	412- 665	563- 594
			Sample size	17	222	4

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Table 88. Mean length (mm) of coho salmon from the District 4 commercial fishery (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1997 [b]	8/6 [c] (7/18, 21, 23, 25, 28, 30; 8/1, 4, 6, 8)	M	Mean Length	549	568	603
			Std. Error	28	9	33
			Range	414- 623	460- 665	570- 635
			Sample Size	7	40	2
		F	Mean Length		606	
			Std. Error		4	
			Range		548- 655	
			Sample Size	0	36	0
			All lengths for 8/13 are by sex only; fish were not aged.			
	8/13 [c,d] (8/13, 15)	M	Mean Length		589	
			Std. Error		5	
			Range		355- 679	
			Sample Size		108	
		F	Mean Length		599	
			Std. Error		3	
			Range		529- 678	
			Sample Size		92	
	8/20 [c] (8/18, 20, 22,)	M	Mean Length	646	609	635
			Std. Error	18	5	-
			Range	607- 695	490- 673	635- 635
			Sample Size	4	62	1
		F	Mean Length	610	611	627
			Std. Error	14	4	26
			Range	584- 631	472- 668	601- 652
			Sample Size	3	74	2
	8/25 [c] (8/25)	M	Mean Length	625	603	546
			Std. Error	-	8	4
			Range	625- 625	430- 681	542- 550
			Sample Size	1	50	2
		F	Mean Length	622	601	573
			Std. Error	-	4	-
			Range	622- 622	505- 662	573- 573
			Sample Size	1	56	1
			All lengths for 8/28 are by sex only; fish were not aged.			
	8/28 [c,d] (8/28)	M	Mean Length		616	
			Std. Error		6	
			Range		486- 689	
			Sample Size		49	
		F	Mean Length		612	
			Std. Error		4	
			Range		552- 694	
			Sample Size		68	

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.
[b] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".
[c] Sex of all fish was confirmed by visual inspection of gonads.
[d] Sex and length information was recorded; no scales were collected.

Table 89. Age and sex of coho salmon from the District 5 commercial fishery. [ab]

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1990	8/10	78	M	126	5.1	1,359	55.1	0	0.0	1,485	60.2
	(7/16, 20- 21, 23- 28, 30- 31,		F	64	2.6	918	37.2	0	0.0	982	39.8
	8/1- 3, 6, 8, 10, 13, 16)		Subtotal	190	7.7	2,277	92.3	0	0.0	2,467	100.0
	8/27	172	M	92	1.7	2,761	51.7	124	2.3	2,978	55.8
	(8/20, 27, 29; 9/7)		F	124	2.3	2,110	39.5	124	2.3	2,358	44.2
			Subtotal	217	4.1	4,871	91.3	249	4.7	5,337	100.0
	Season	250	M	218	2.8	4,120	52.8	124	1.6	4,463	57.2
			F	188	2.4	3,027	38.8	124	1.6	3,340	42.8
			Total	407	5.2	7,148	91.6	249	3.2	7,804	100.0
1991	8/5	60	M	25	6.7	251	66.7	25	6.7	302	80.0
	(7/22- 27, 29- 31;		F	0	0.0	75	20.0	0	0.0	75	20.0
	8/1- 2, 5)		Subtotal	25	6.7	327	86.7	25	6.7	377	100.0
	8/9	21	M	49	9.5	418	81.0	25	4.8	491	95.2
	(8/9)		F	0	0.0	25	4.8	0	0.0	25	4.8
			Subtotal	49	9.5	442	85.8	25	4.8	516	100.0
	8/14	91	M	90	5.5	1,009	61.5	108	6.6	1,208	73.6
	(8/14)		F	36	2.2	343	20.9	54	3.3	433	26.4
			Subtotal	126	7.7	1,352	82.4	162	9.9	1,641	100.0
	8/16	81	M	165	7.4	1,374	61.7	82	3.7	1,621	72.8
	(8/16)		F	27	1.2	577	25.9	0	0.0	605	27.2
			Subtotal	192	8.6	1,951	87.7	82	3.7	2,226	100.0
	8/19	94	M	165	8.5	1,258	64.9	41	2.1	1,463	75.5
	(8/19)		F	41	2.1	371	19.1	63	3.2	474	24.5
			Subtotal	206	10.6	1,629	84.0	103	5.3	1,938	100.0
	8/21	83	M	238	3.6	4,226	63.9	556	8.4	5,020	75.9
	(8/21, 26, 28,31; 9/2)		F	159	2.4	1,435	21.7	0	0.0	1,594	24.1
			Subtotal	397	6.0	5,662	85.6	556	8.4	6,614	100.0
	Season	430	M	732	5.5	8,537	64.1	837	6.3	10,106	75.9
			F	263	2.0	2,826	21.2	117	0.9	3,206	24.1
			Total	995	7.5	11,363	85.4	954	7.2	13,312	100.0
1992	7/30	39	M	19	7.7	106	43.6	0	0.0	125	51.3
	(7/16- 17, 20- 21,		F	6	2.6	106	43.6	6	2.6	118	48.7
	23- 24, 27- 28, 30- 31)		Subtotal	25	10.3	212	87.2	6	2.6	243	100.0
	8/3	86	M	50	8.1	355	57.0	0	0.0	406	65.1
	(8/3, 6)		F	29	4.7	181	29.1	7	1.2	217	34.9
			Subtotal	80	12.8	536	86.1	7	1.2	623	100.0
	8/14	145	M	287	4.8	3,048	51.0	125	2.1	3,460	57.9
	(8/10, 14, 17)		F	329	5.5	2,104	35.2	84	1.4	2,516	42.1
			Subtotal	616	10.3	5,151	86.2	209	3.5	5,976	100.0

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Table 89. Age and sex of coho salmon from the District 5 commercial fishery (page 2 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1992 (cont.)	8/21 (8/20- 21, 24, 27- 28, 31; 9/3- 4)	134	M	977	7.5	6,230	47.8	195	1.5	7,403	56.8
			F	678	5.2	4,861	37.3	91	0.7	5,630	43.2
			Subtotal	1,655	12.7	11,091	85.1	287	2.2	13,033	100.0
	Season	404	M	1,333	6.7	9,739	49.0	321	1.6	11,393	57.3
			F	1,042	5.2	7,252	36.5	188	0.9	8,482	42.7
			Total	2,375	12.0	16,991	85.5	509	2.6	19,875	100.0
1993	8/9 (7/21, 23, 26, 28, 30; 8/2, 4, 6, 9)	173	M	20	1.2	794	45.7	60	3.5	875	50.3
			F	50	2.9	763	43.9	50	2.9	864	49.7
			Subtotal	71	4.1	1,558	89.6	111	6.4	1,739	100.0
	8/13 (8/13, 16, 18)	122	M	167	2.5	3,122	46.7	221	3.3	3,510	52.5
			F	107	1.6	2,962	44.3	107	1.6	3,176	47.5
			Subtotal	274	4.1	6,084	91.0	328	4.9	6,686	100.0
	8/23 (8/23, 26, 28; 9/1, 3)	134	M	159	1.4	4,667	40.3	321	2.8	5,147	44.4
			F	81	0.7	6,200	53.5	162	1.4	6,443	55.6
			Subtotal	240	2.1	10,867	93.8	483	4.2	11,589	100.0
	Season	429	M	346	1.7	8,583	42.9	602	3.0	9,532	47.6
			F	239	1.2	9,925	49.6	320	1.6	10,484	52.4
			Total	585	2.9	18,509	92.5	922	4.6	20,014	100.0
1994	8/5 (7/11- 12, 14- 15, 19, 21, 23, 25, 27, 29; 8/2, 3, 5)	72	M	555	12.5	2,527	56.9	62	1.4	3,145	70.8
			F	124	2.8	1,048	23.6	124	2.8	1,297	29.2
			Subtotal	680	15.3	3,576	80.5	187	4.2	4,442	100.0
	8/8 (8/8, 10)	75	M	262	5.3	1,646	33.3	331	6.7	2,240	45.3
			F	0	0.0	2,439	49.3	264	5.3	2,703	54.7
			Subtotal	262	5.3	4,086	82.6	595	12.0	4,944	100.0
	8/15 (8/12, 15, 17, 19, 22)	136	M	618	2.9	10,660	50.0	469	2.2	11,747	55.1
			F	789	3.7	8,783	41.2	0	0.0	9,572	44.9
			Subtotal	1,407	6.6	19,443	91.2	469	2.2	21,319	100.0
	8/31 (8/22, 24, 26, 29, 31; 9/2, 5, 7)	132	M	1,024	6.1	6,231	37.1	252	1.5	7,507	44.7
			F	890	5.3	7,759	46.2	638	3.8	9,287	55.3
			Subtotal	1,915	11.4	13,989	83.3	890	5.3	16,794	100.0
	Season	415	M	2,460	5.2	21,064	44.3	1,114	2.3	24,638	51.9
			F	1,803	3.8	20,030	42.2	1,027	2.2	22,860	48.1
			Total	4,263	9.0	41,094	86.5	2,141	4.5	47,499	100.0
1995	8/11 (7/20-21, 24, 26, 28, 31; 8/2, 7, 11, 14, 16)	147	M	69	1.4	2,892	57.1	69	1.4	3,031	59.9
			F	69	1.4	1,893	37.4	69	1.4	2,032	40.1
			Subtotal	139	2.7	4,785	94.5	139	2.7	5,062	100.0
	8/21 (8/16, 18, 21, 25, 28, 30; 9/1)	152	M	168	1.3	5,651	44.1	168	1.3	5,986	46.7
			F	256	2.0	6,073	47.4	501	3.9	6,831	53.3
			Subtotal	424	3.3	11,724	91.5	669	5.2	12,813	100.0

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Table 89. Age and sex of coho salmon from the District 5 commercial fishery (page 3 of 3).

Year	Sample Dates (Stratum Dates)	Sample Size	Sex	Age Class 1.1 Catch	1.1 %	2.1 Catch	2.1 %	3.1 Catch	3.1 %	Total Catch	Total %
1995 (cont.)	Season	299	M	237	1.3	8,542	47.8	237	1.3	9,017	50.4
			F	326	1.8	7,967	44.6	570	3.2	8,862	49.6
			Total	563	3.1	16,509	92.4	808	4.5	17,875	100.0
1996	8/5 (7/15, 18, 25, 27, 30; 8/5, 8)	148	M	279	4.1	4,048	58.8	0	0.0	4,327	62.8
			F	233	3.4	2,280	33.1	47	0.7	2,559	37.2
			Subtotal	512	7.4	6,328	91.9	47	0.7	6,886	100.0
	8/12 (8/10, 12, 14)	93	M	615	4.3	5,997	41.9	461	3.2	7,074	49.5
			F	154	1.1	6,920	48.4	154	1.1	7,227	50.5
			Subtotal	769	5.4	12,917	90.3	615	4.3	14,301	100.0
	8/16 (8/16)	61	M	480	6.6	2,880	39.3	120	1.6	3,480	47.5
			F	120	1.6	3,360	45.9	360	4.9	3,841	52.5
			Subtotal	600	8.2	6,241	85.2	480	6.6	7,321	100.0
	8/21 (8/19, 21, 23, 26)	155	M	593	3.9	5,340	34.8	99	0.6	6,032	39.4
			F	297	1.9	8,702	56.8	297	1.9	9,296	60.6
			Subtotal	890	5.8	14,042	91.6	396	2.6	15,328	100.0
	Season	457	M	1,968	4.5	18,266	41.7	680	1.6	20,913	47.7
			F	803	1.8	21,262	48.5	857	2.0	22,923	52.3
			Total	2,771	6.3	39,528	90.2	1,537	3.5	43,836	100.0
1997 [c]	8/11 [d,e] (7/23, 25, 28; 8/1, 4, 8, 11, 15)	80	M							649	61.3
			F							409	38.7
			Subtotal							1,058	100.0
	8/20 [d] (8/20, 22)	139	M	74	5.1	755	51.8	32	2.2	860	59.0
			F	63	4.3	525	36.0	10	0.7	597	41.0
			Subtotal	137	9.4	1,279	87.8	42	2.9	1,457	100.0
	8/25 [d] (8/25)	132	M	13	2.8	168	36.1	6	1.0	184	39.4
			F	12	2.6	264	56.7	5	0.8	284	60.6
			Subtotal	25	5.4	432	92.8	11	1.8	468	100.0
	Season [d]	271	M							1,693	55.9
			F							1,290	44.1
			Total							2,983	100.0
	Grand Total [f]	2,684	M	7,295	4.3	78,851	46.3	3,916	2.3	90,061	52.9
			F	4,664	2.7	72,290	42.5	3,203	1.9	80,157	47.1
			Total	11,959	7.0	151,140	88.8	7,119	4.2	170,215	100.0

[a] The number of fish in each stratum age and sex category are derived from the sample percentages; discrepancies in sums are attributed to rounding errors.
[b] The number of fish in "Season" summaries are the strata sums; "Season" percentages are derived from the sums.
[c] Sampling dates do not meet criteria for estimating commercial harvest percentages for some or all of the strata; "Season" is not included in the "Grand Total".
[d] Sex of all fish was confirmed by visual inspection of gonads.
[e] Sex and length information was recorded; no scales were collected.
[f] The number of fish in the "Grand total" are the sum of the "Season" totals; percentages are derived from those sums.

Table 90. Mean length (mm) of coho salmon from the District 5 commercial fishery. [a]

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
1996	8/5 (7/15, 18, 25, 27, 30; 8/5, 8)	M	Mean Length	579	602	
			Std. Error	16	5	
			Range	511- 628	471- 676	
			Sample Size	6	87	0
		F	Mean Length	597	594	599
			Std. Error	6	4	0
			Range	580- 616	471- 647	599- 599
			Sample Size	5	49	1
	8/12 (8/10, 12, 14)	M	Mean Length	638	630	608
			Std. Error	21	5	22
			Range	600- 695	565- 680	570- 645
			Sample Size	4	39	3
		F	Mean Length	640	616	555
			Std. Error	0	4	0
			Range	640- 640	545- 670	555- 555
			Sample Size	1	45	1
	8/16 (8/16)	M	Mean Length	621	621	640
			Std. Error	15	6	0
			Range	595- 650	570- 705	640- 640
			Sample Size	4	24	1
		F	Mean Length	620	622	605
			Std. Error	0	5	13
			Range	620- 620	560- 660	580- 625
			Sample Size	1	28	3
	8/21 (8/19, 21, 23, 26)	M	Mean Length	621	648	630
			Std. Error	23	3	0
			Range	535- 675	600- 690	630- 630
			Sample Size	6	54	1
		F	Mean Length	630	626	615
			Std. Error	10	3	16
			Range	620- 650	560- 680	585- 640
			Sample Size	3	88	3
	Season	M	Mean Length	620	627	617
			Range	511- 695	471- 705	570- 645
			Sample size	20	204	5
		F	Mean Length	621	619	599
			Range	580- 650	471- 680	555- 640
			Sample size	10	210	8

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Table 90. Mean length (mm) of coho salmon from the District 5 commercial fishery (page 2 of 2).

Year	Sample Dates (Stratum Dates)	Sex		Age Class 1.1	2.1	3.1
				All lengths for 8/11 are by sex only; fish were not aged.		
1997 [b]	8/11 [c,d] (7/23, 25, 28; 8/1, 4, 8, 11, 15)	M	Mean Length		591	
			Std. Error		6	
			Range		460- 662	
			Sample Size		49	
		F	Mean Length		613	
			Std. Error		4	
			Range		547- 655	
			Sample Size		31	
	8/20 [c] (8/20, 22)	M	Mean Length	611	610	577
			Std. Error	11	6	10
			Range	568- 654	478- 700	560- 593
			Sample Size	7	72	3
		F	Mean Length	602	619	575
			Std. Error	15	4	-
			Range	557- 650	550- 673	575- 575
			Sample Size	6	50	1
	8/25 [c] (8/25)	M	Mean Length	629	608	589
			Std. Error	41	7	-
			Range	550- 685	490- 700	589- 589
			Sample Size	3	40	1
		F	Mean Length	631	622	568
			Std. Error	13	5	-
			Range	604- 647	532- 685	568- 568
			Sample Size	3	61	1

[a] "Season" mean lengths are weighted by the commercial harvest in each stratum.
[b] Sampling dates do not meet criteria for estimating commercial harvest percentages for som or all of the strata; "Season" is not included in the "Grand Total".
[c] Sex of all fish was confirmed by visual inspection of gonads.
[d] Sex and length information was recorded; no scales were collected.

FIGURES

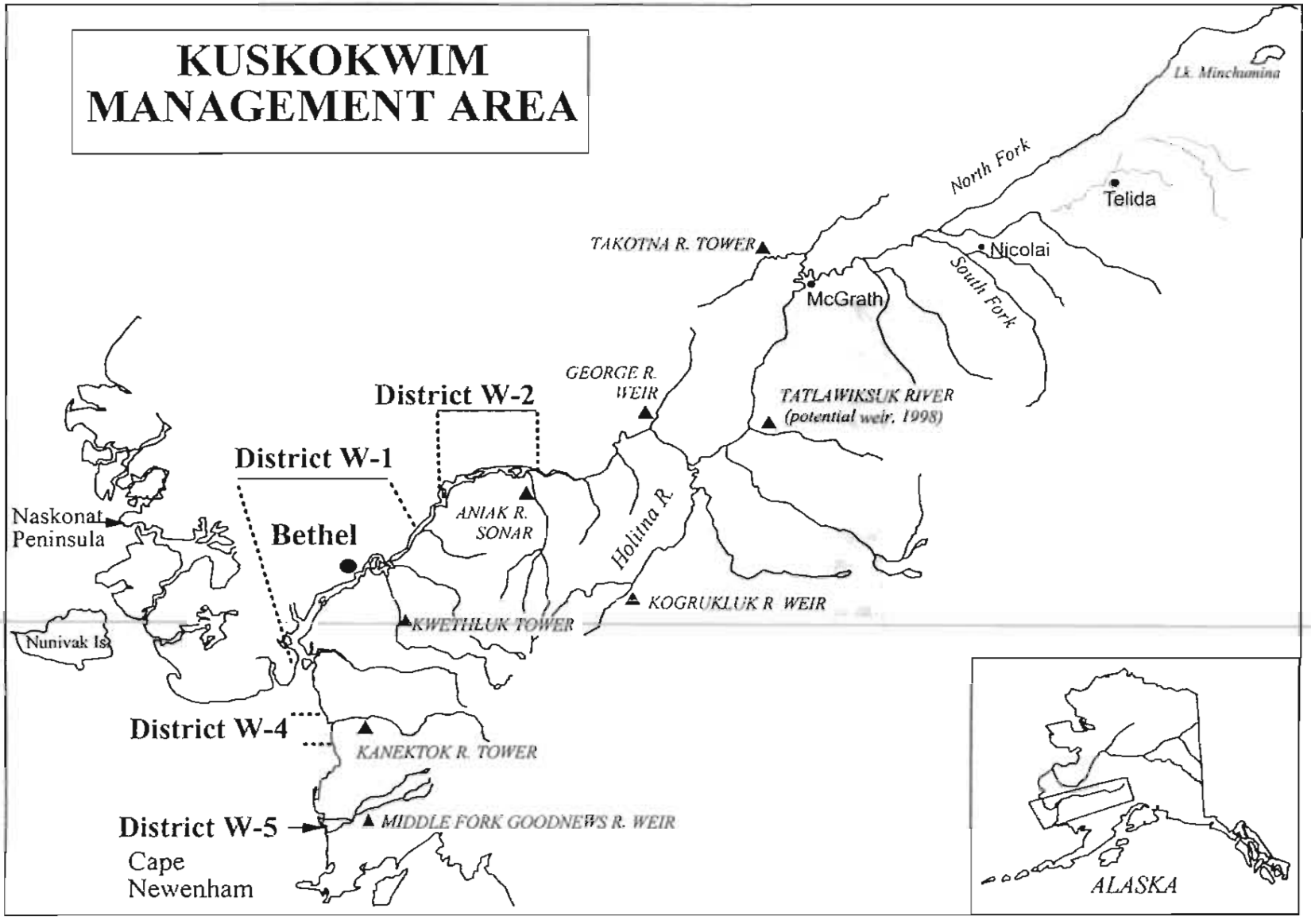


Figure 1. Ksukokwim Area map showing salmon management districts and escapement monitoring projects.

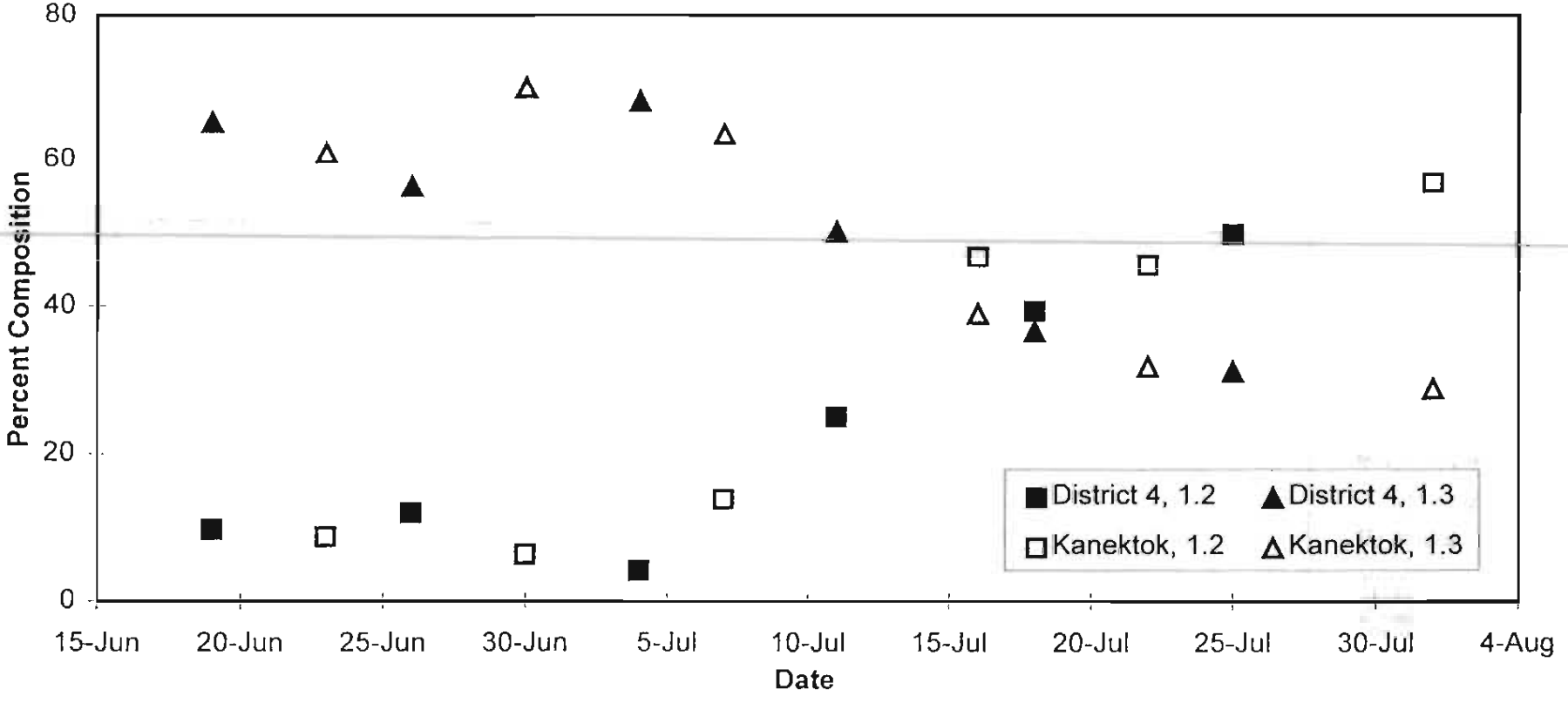


Figure 2. Percent composition by day of age 1.2 and 1.3 sockeye salmon from Kanektok River escapement and the District 4 commercial catch in 1997.

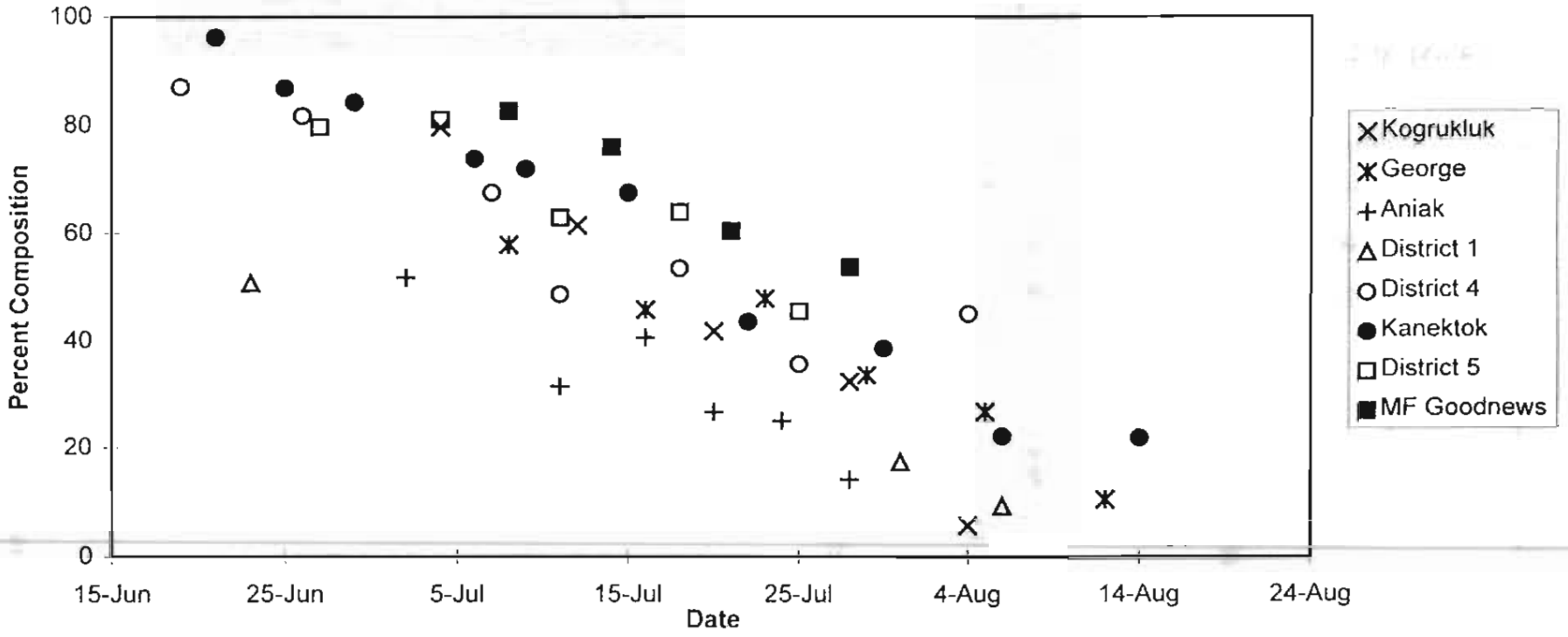


Figure 3. Percentage of age 0.4 chum salmon from Kuskokwim Area escapement and commercial catch populations in 1997.

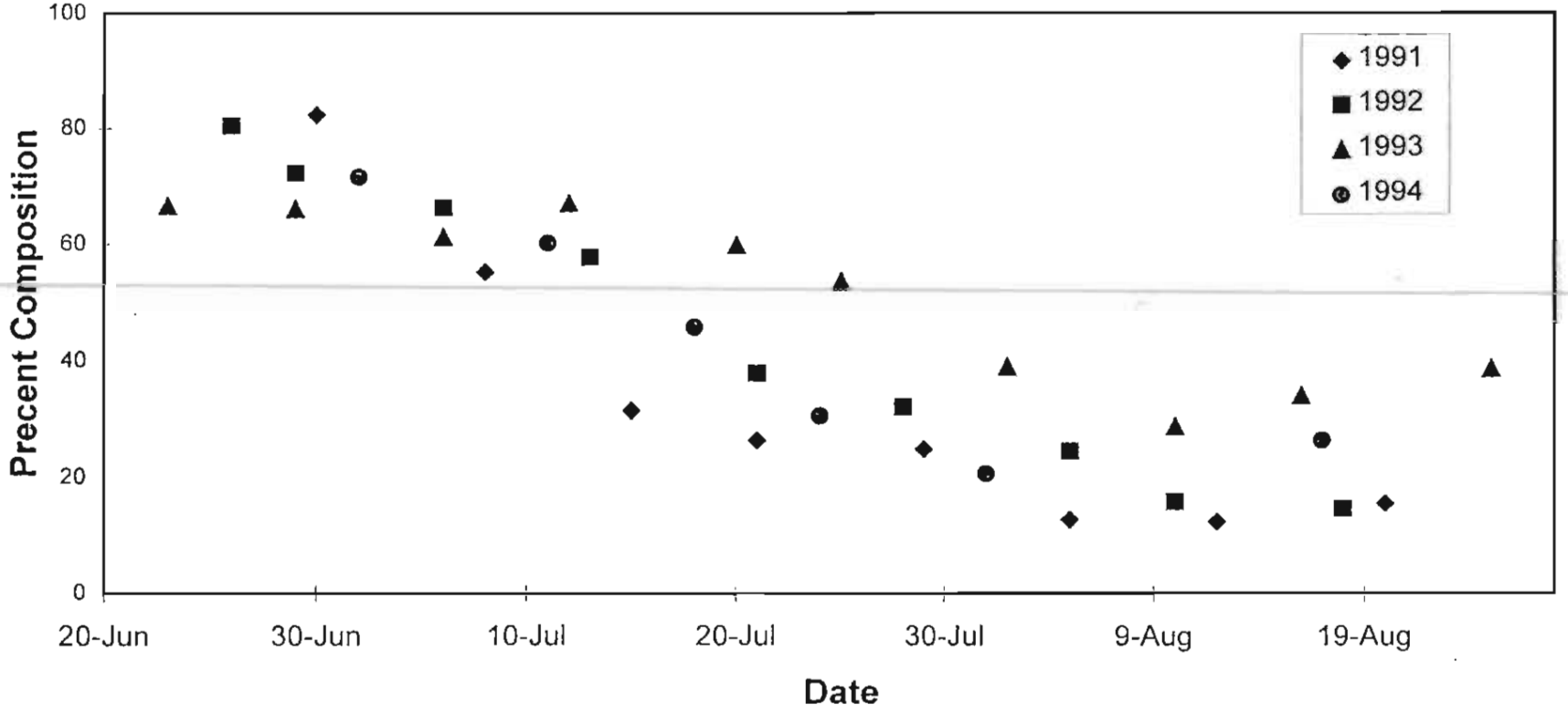


Figure 4. Percentage by sample date of age 0.4 chum salmon in the Tuluksak River, 1991 - 1994.

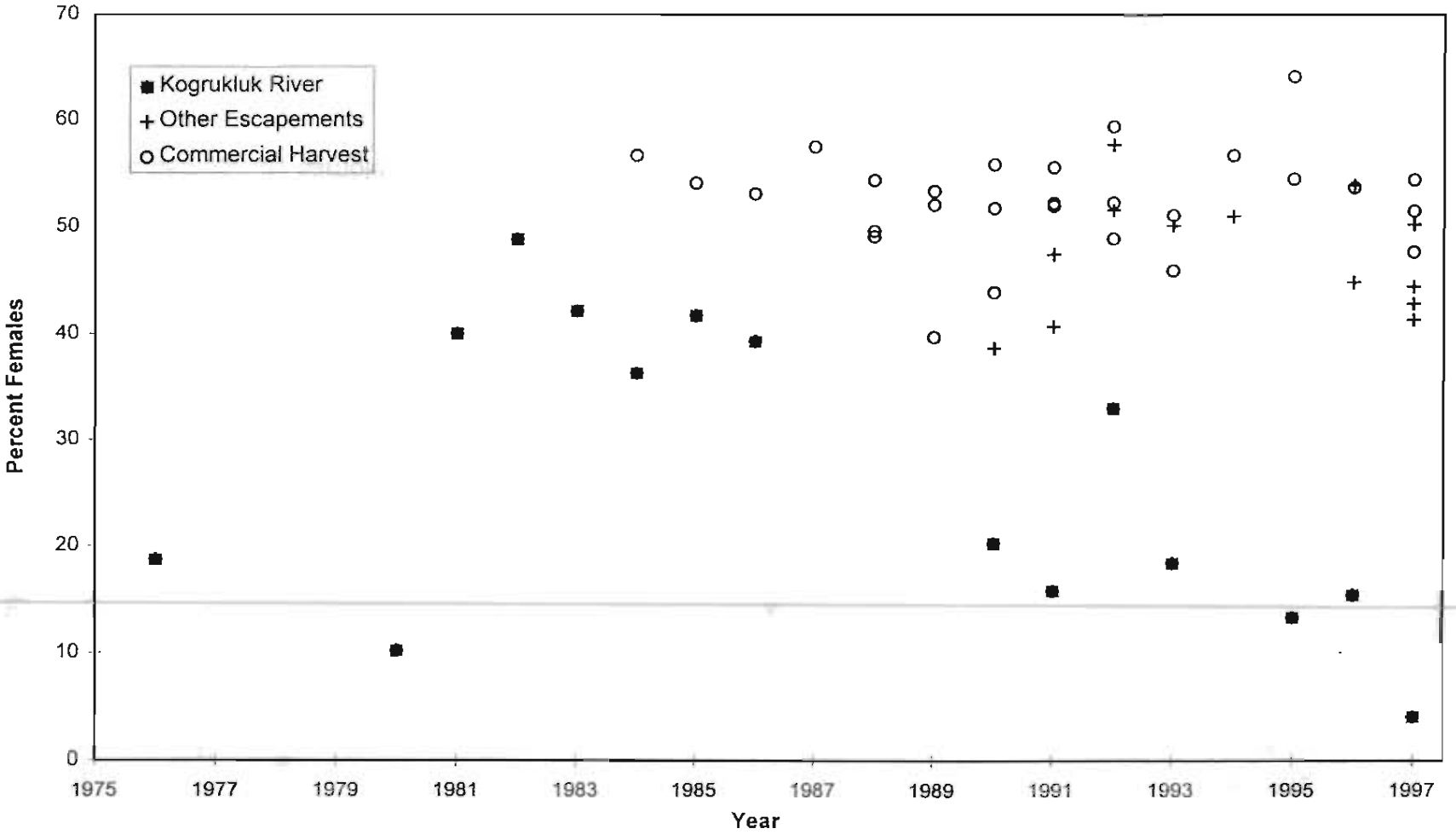


Figure 5. Historical percentage of female chum salmon in Kuskokwim Area escapement and commercial catch populations.

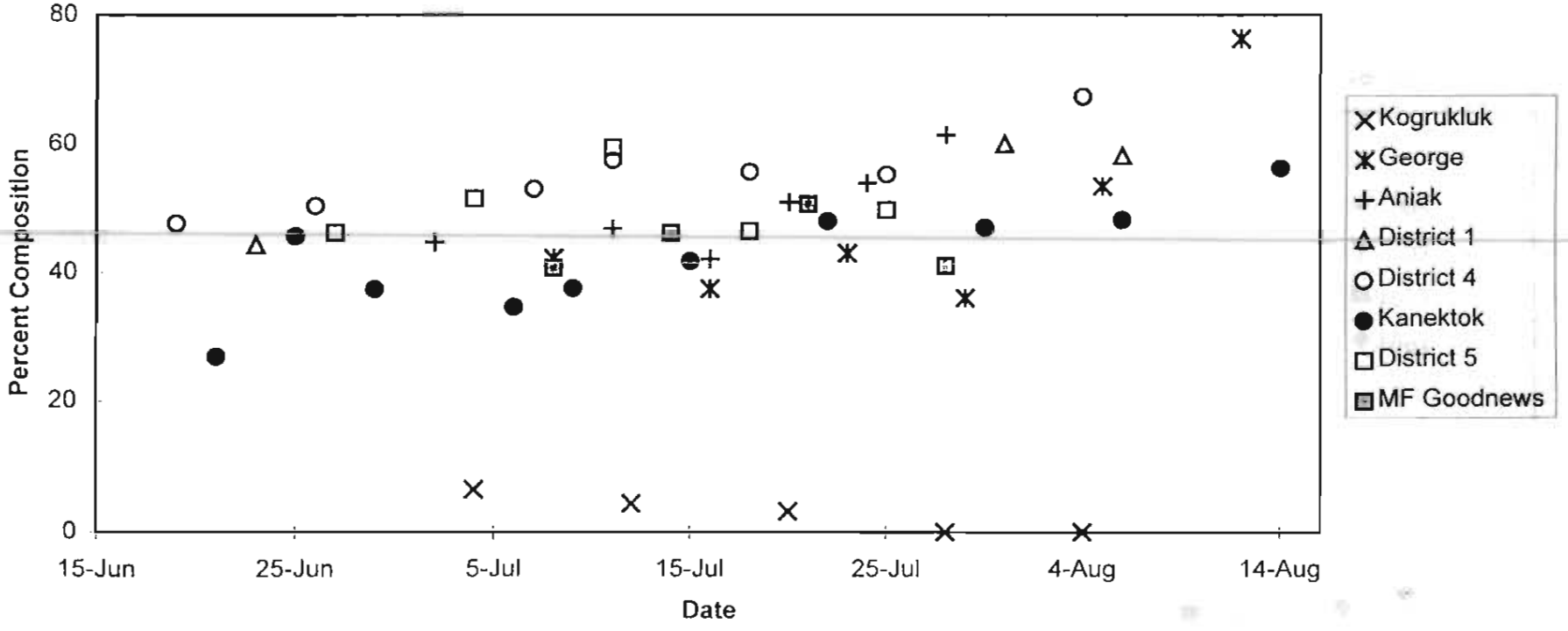


Figure 6. Percentage of female chum salmon from Kuskokwim Area escapement and commercial catch populations in 1997.

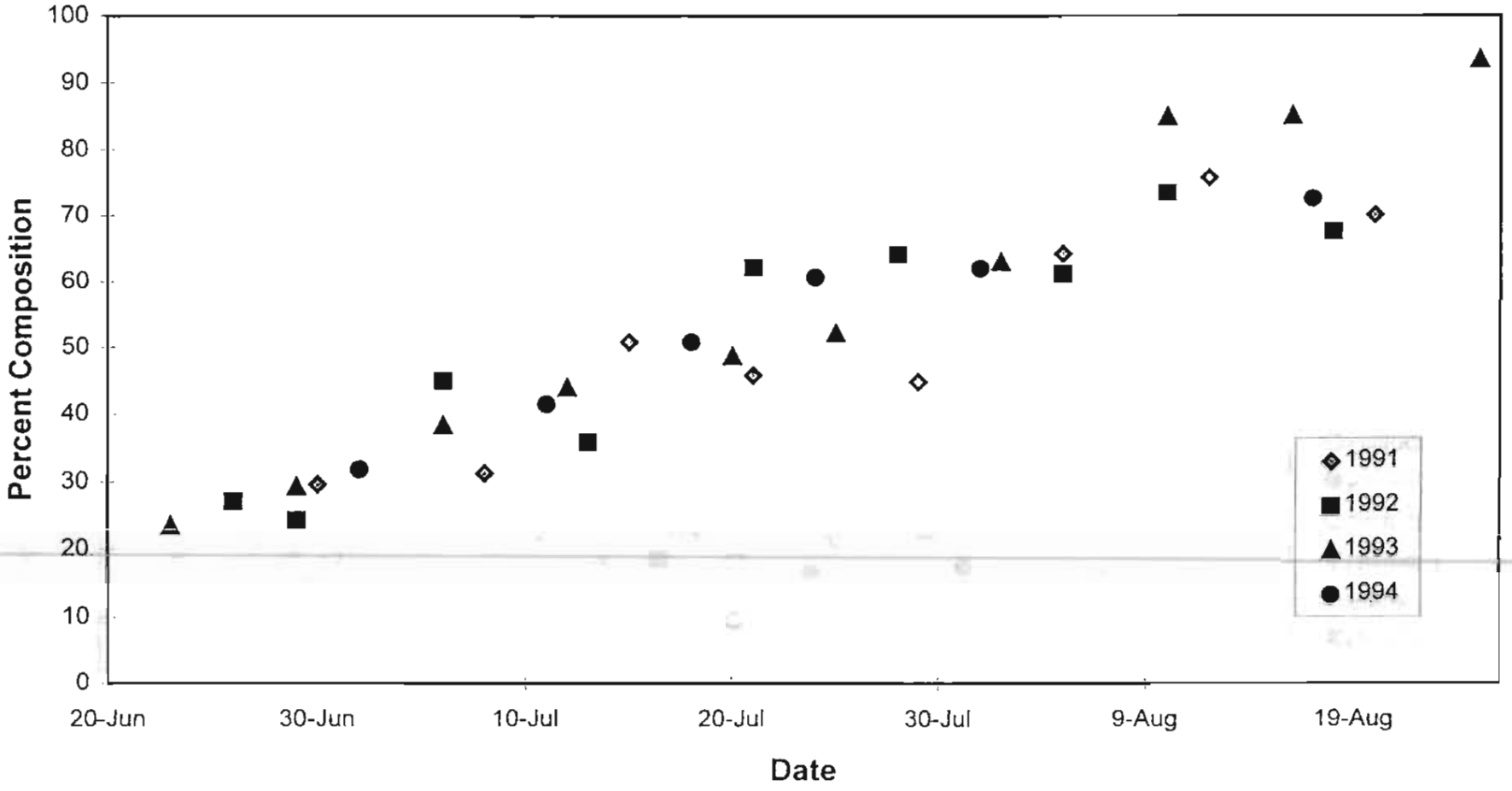


Figure 7. Percentage of female chum salmon at Tuluksak River weir, by sample date, 1991 - 1994.

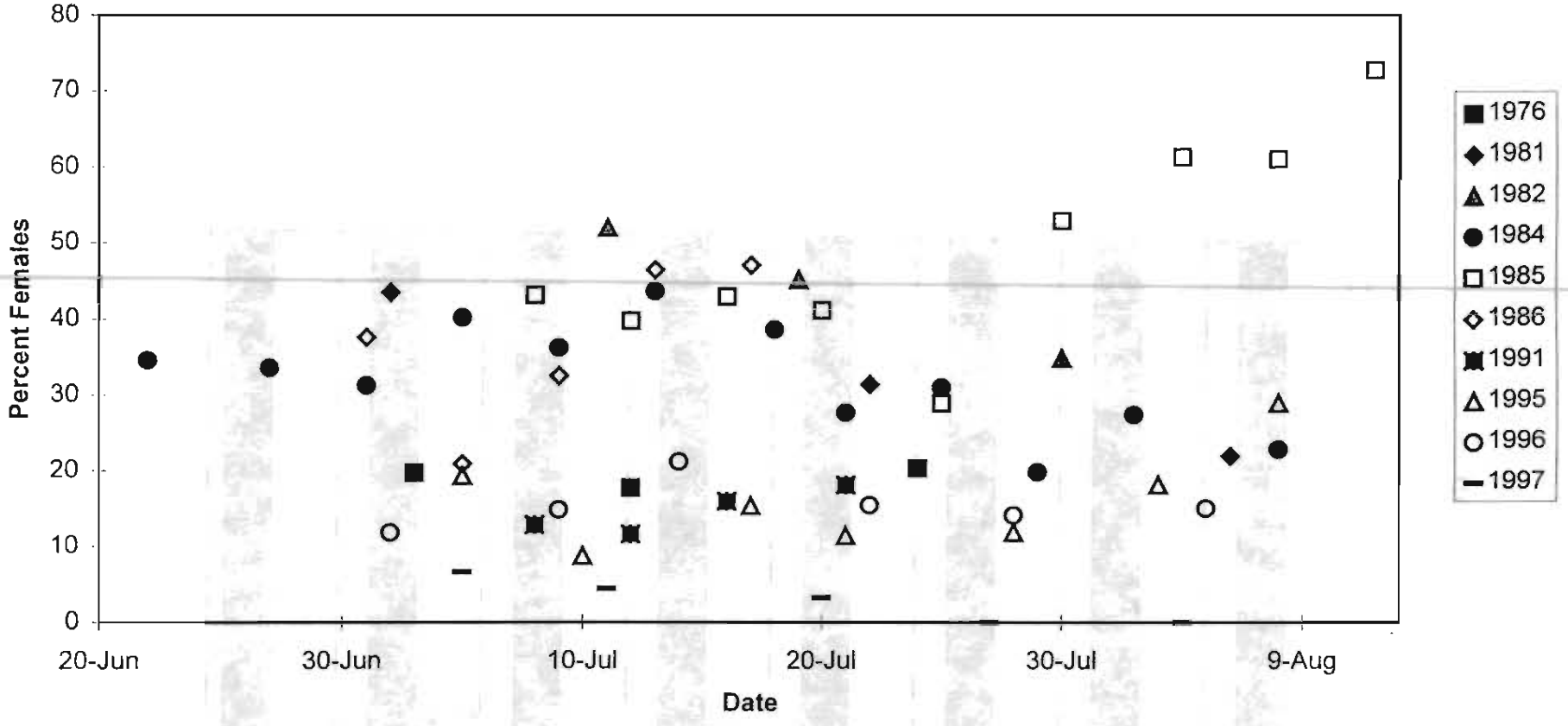


Figure 8. Historical percentage of female chum salmon in Kogrukluk River by sample date.

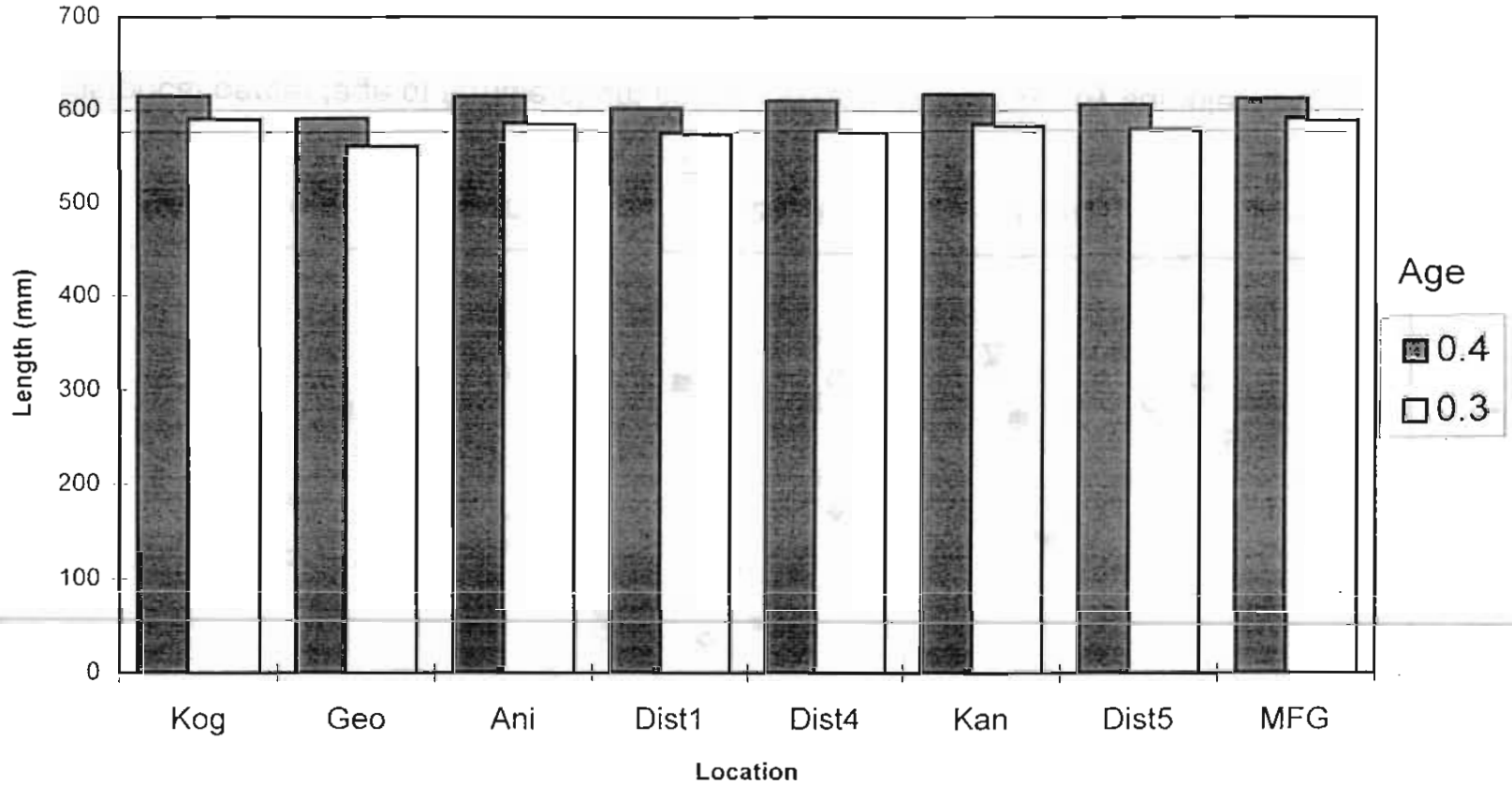


Figure 9. Average length (mm) of male chum salmon from escapement and commercial catch populations in the Kuskokwim Area, 1997. (Kog = Kogrukluk River, Geo = George River, Ani = Aniak River, Distx = District 1-3, Kan = Kanektok River, MFG = Middle Fork Goodnews River.)

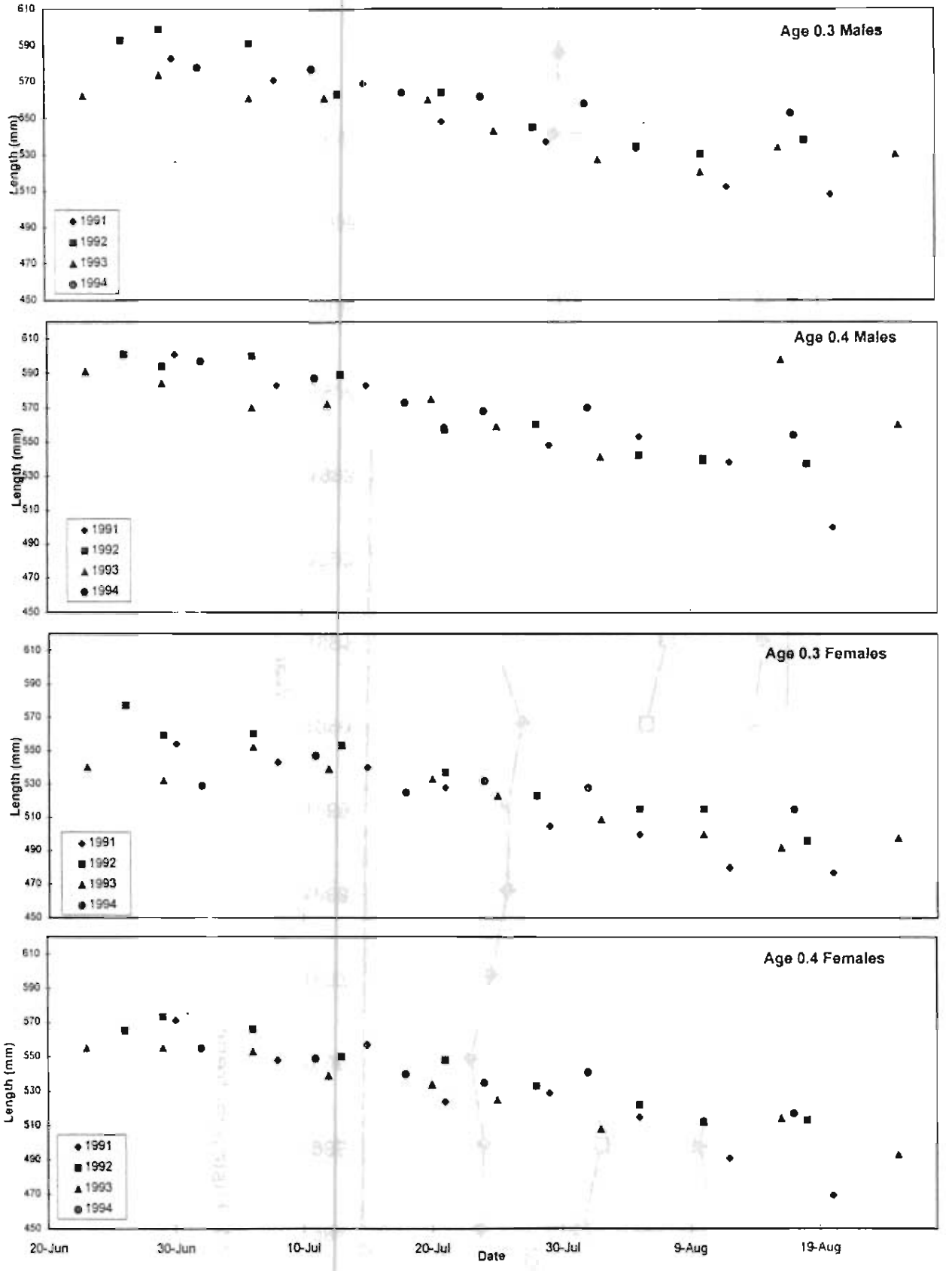


Figure 10. Average length (mm) by sample date for chum salmon in the Tuluksak River, 1991 - 1994.

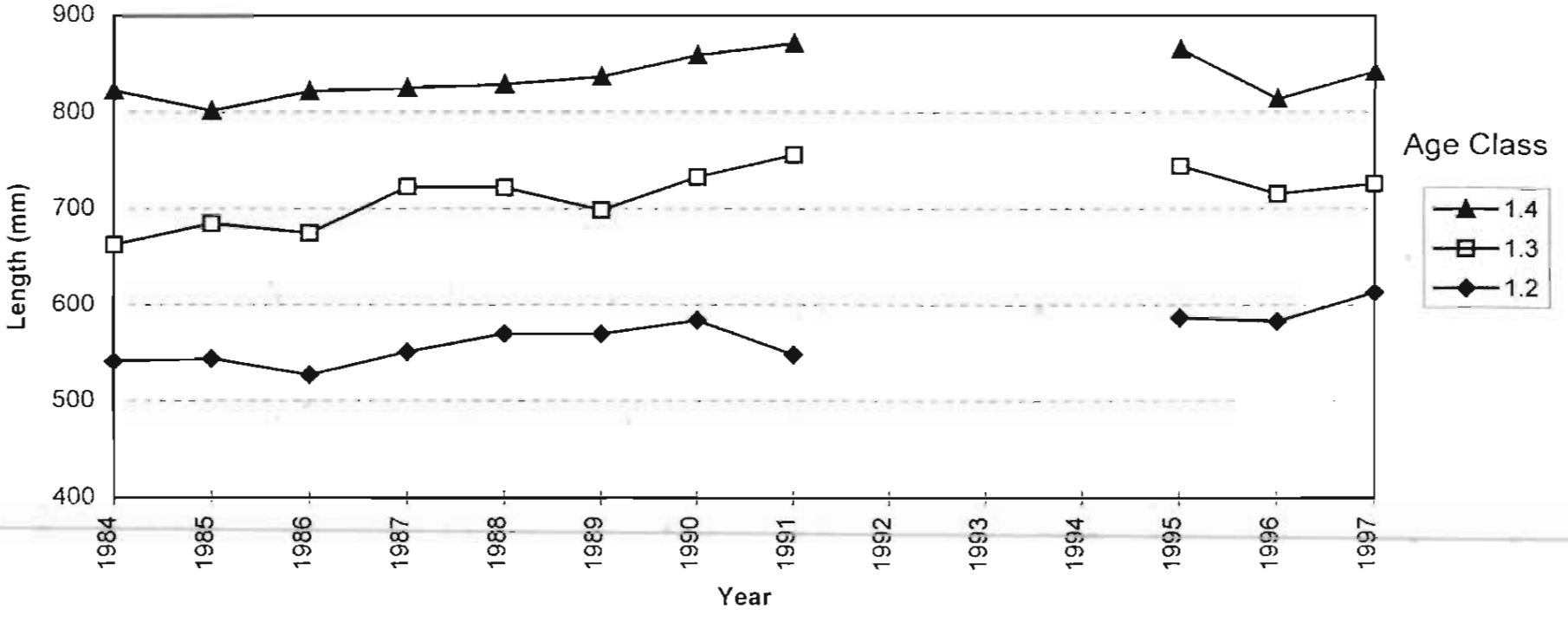


Figure 11. Historical trends in the average length of the male chinook salmon at Kogrukluk River, 1976 - 1997.

APPENDICES

Appendix A. Holder memorandum on aerial surveys of late spawning chum salmon in the upper Kuskokwim River drainage.

Moly neaux

MEMORANDUM	STATE OF ALASKA Department of Fish and Game

To: Charlie Burkey
Kuskokwim Area Manager
CFMD Division
AYK / Bethel

Date: October 16, 1996

File No: BURK0927.DOC

From: Russ Holder RH
Regional Resource Development Biologist
CFMD Division
AYK / Fairbanks

Telephone No: 459-7274

Subject: Late Spawning Chum Salmon Aerial Suveys

At the Kuskokwim Area staff meeting this past spring, staff had requested someone to fly aerial surveys in September to look for late-spawning fall chum salmon. I volunteered contingent upon receiving further information from Kuskokwim staff and availability of acceptable survey pilots. Both you and Larry DuBois provided background information prior to my departure. I left Fairbanks on September 23, 1996 at 12:15 p.m. with pilot Rick Swisher, of Quicksilver Air Service, in his Citabria Scout airplane. Attachments 1 and 2 should be joined at the match line for an approximate picture of the flight paths on September 23 and 24.

At 2:04 p.m. we intersected Highpower Creek at Global Positioning System (GPS) 63° 29.74/152° 46.67 and began surveying downstream. Stream appeared to be six to eight feet deep but colored and cloudy due to recent precipitation. I could only see in the shallower sections. Streamside vegetation was mixed spruce and birch trees. The sun was at a low angle in the sky and caused shadows, and we flew cutting the corners. I observed 15 coho salmon, and ended the survey at 2:24 p.m. at the confluence of another river (Fish River?) where there appeared to be a fishing or hunting cabin.

We continued to fly along Highpower Creek to Telida and then cut across country to intersect the Tonzona River. Started Tonzona River survey at 2:40 p.m. at GPS 63° 01.75/153° 14.71 flying downstream. Gravel braided river looked a lot like the upper end of the Toklat River. Did not see any fishm and ended the survey at 2:50 p.m.

See Attachments 3, 4 and 5 for South Fork Kuskokwim salmon locations. Flew and intersected the South Fork Kuskokwim at 3:00 p.m. We flew up the South Fork Kuskokwim and at GPS 62° 38.26/153° 43.65 we observed approximately 11 coho salmon in a stream that flows into the South Fork Kuskokwim. Four chum salmon were observed at GPS 62° 37.32/153° 41.17 right before the confluence of the Dillinger River on the east side of the South Fork Kuskokwim, and eight chum and 2 coho were observed at GPS 62° 35.95/153° 35.94. At 3:38 p.m. we began

flying up the Dillinger River. The river was very swift with a bottom substrate of large gravel with and large boulders. The Dillinger River did not look like suitable chum salmon habitat. We ended the Dillinger River survey at approximately 3:40 p.m., flew across into the Jones River drainage at GPS 62° 36.46/153° 24.35 and flew it downstream. This Creek was shallower and smaller, but still swift, and did not contain as many boulders. Counted 247 coho salmon from start of survey to the mouth of Jones Creek, and ended the survey at 3:55 p.m.

We continued flying down the main South Fork Kuskokwim looking for likely, late-spawning fall chum salmon spots. At GPS 62° 34.30/153° 34.60 I observed approximately 100 chum and 50 coho salmon mixed together in a side channel of the main river and approximately 70 chum and 40 coho salmon at GPS 62° 33.74/153° 34.51. At GPS coordinates 62° 51.28/153° 59.93 we observed approximately 300 chum salmon in a side channel slough with one grizzly bear. At approximately 4:43 p.m. and between the GPS coordinates of 62° 54.37/154° 05.81 and 62° 55.86/154° 07.32 we observed approximately 375 chum salmon and two grizzly bears in this side channel slough on the west side of the flood plain. At 4:50 p.m. we broke off surveying and flew to McGrath where we overnighted.

The South Fork Kuskokwim fall chum salmon we observed blended very well with the slightly greenish glacial till color of the water. Most of the chum salmon had fungused white tails which helped in observing them. The spawning areas we observed were side channel sloughs of the main river system and not clear water tributaries. I would rate the overall observation conditions as fair. It appeared that the late spawning fall chum salmon were not that numerous in relation to the available spawning habitat. I would guess that the chum salmon are keying on upwelling and possibly warmer water habitat due to their late arrival on the spawning grounds. It would be extremely difficult to enumerate these fish if a high proportion of the late spawning chums are main channel spawners -- you cannot see into the main channel. I am reasonably confident that these fish are relatively rare in relation to the river distances because it appeared a majority of the river's distance was devoid of predators or scavengers, and in the areas where we observed fish there were bears, ravens, and eagles.

On September 24, 1996, Rick Swisher and I continued our late spawning fall chum salmon explorations. We departed McGrath at 0927 and flew over to the Big River. We intersected the Big River at 1003 at GPS 62° 40.00/154° 59.39 and began flying upstream. At 1004 and GPS 62° 40.71/154° 57.69 we saw two grizzly bears and approximately 300 chum salmon in a side channel slough off the main river (see Attachments 6 & 7). The slough area was a semi V shape with timber all around the edges and the water color was a brighter green and clearer than the main channel. We also saw two chum salmon at GPS 62° 39.23/154° 58.86 and two chum salmon at GPS 62° 32.??/155° 02.85. We concluded the Big River survey at 1028 and GPS coordinates 62° 27.65/155° 03.25.

We crossed directly over the top of Lone Mountain enroute to the Middle Fork. The area where we intersected the Middle Fork was dry and frozen up so we continued over to the Windy Fork tributary. We intersected the Windy Fork at 1045 and GPS 62° 32.53/154° 20.52 and began flying it downstream. Windy Fork had clear water visibility with excellent spawning gravel. We observed a clear water tributary which we investigated and counted approximately 550 coho

salmon,with the majority of spawners at GPS 62° 40.60/154° 35.47 (see Attachment 8). This tributary would be an excellent aerial survey index stream for coho salmon because it is very clear, sparsely treed, contains enough coho to be worthwhile, and appeared hydrologically stable. The mouth of this clear water stream has the coordinates 62° 41.99/154° 36.47. We counted approximately 350 chum salmon within the first 1/4 mile of the main river's side slough which the clearwater stream emptied into and another 50 chum salmon approximately 1/2 mile downstream at coordinates 62° 42.91/154° 36.47. We ended the survey at 1115 at coordinates 62° 43.87/154° 37.44.

We flew and intersected the Pitka Fork at 1122 and coordinates 62° 50.23/154° 33.90. We flew upstream and then continued up Sullivan Creek. We flew a total survey time of 14 minutes in the Pitka Fork drainage and then broke off for Fairbanks not having seen any fish.

On the return trip we intersected a smaller clear water creek at 1209 coordinates 63° 22.91/152° 37.94 and counted 634 coho salmon into the upper end where it petered out at coordinates 63° 18.17/152° 36.45. This stream appeared to be a good coho salmon aerial survey index stream.

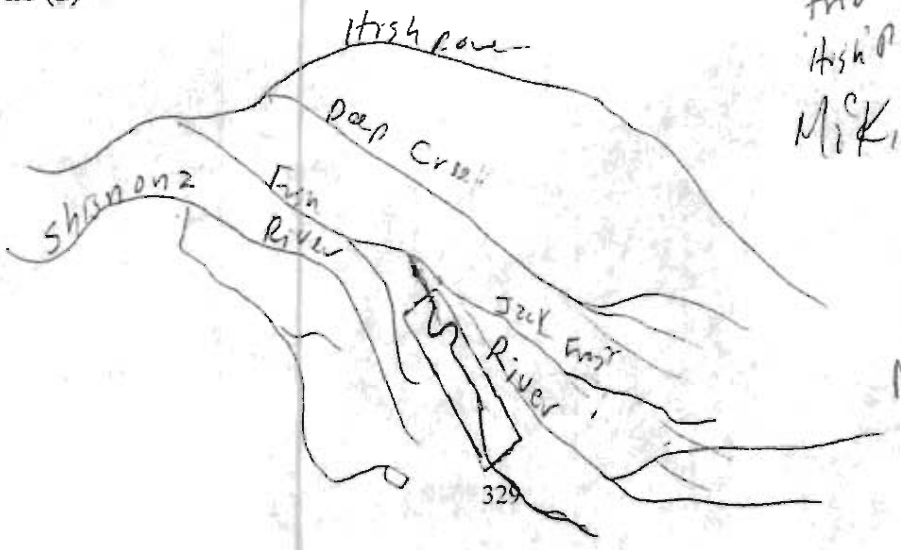
We landed back in Fairbanks at 1530 having accumulated approximately 11 hours of total flight time for two days.

Attachment 1 & 2, approximate flight path on 9/23 & 24.
Attachments 3-5 South Fork Kuskokwim map.
Attachment 6 map of Big River.
Attachment 7 two photographs of a chum salmon spawning location.
Attachment 8 map of Windy Fork.

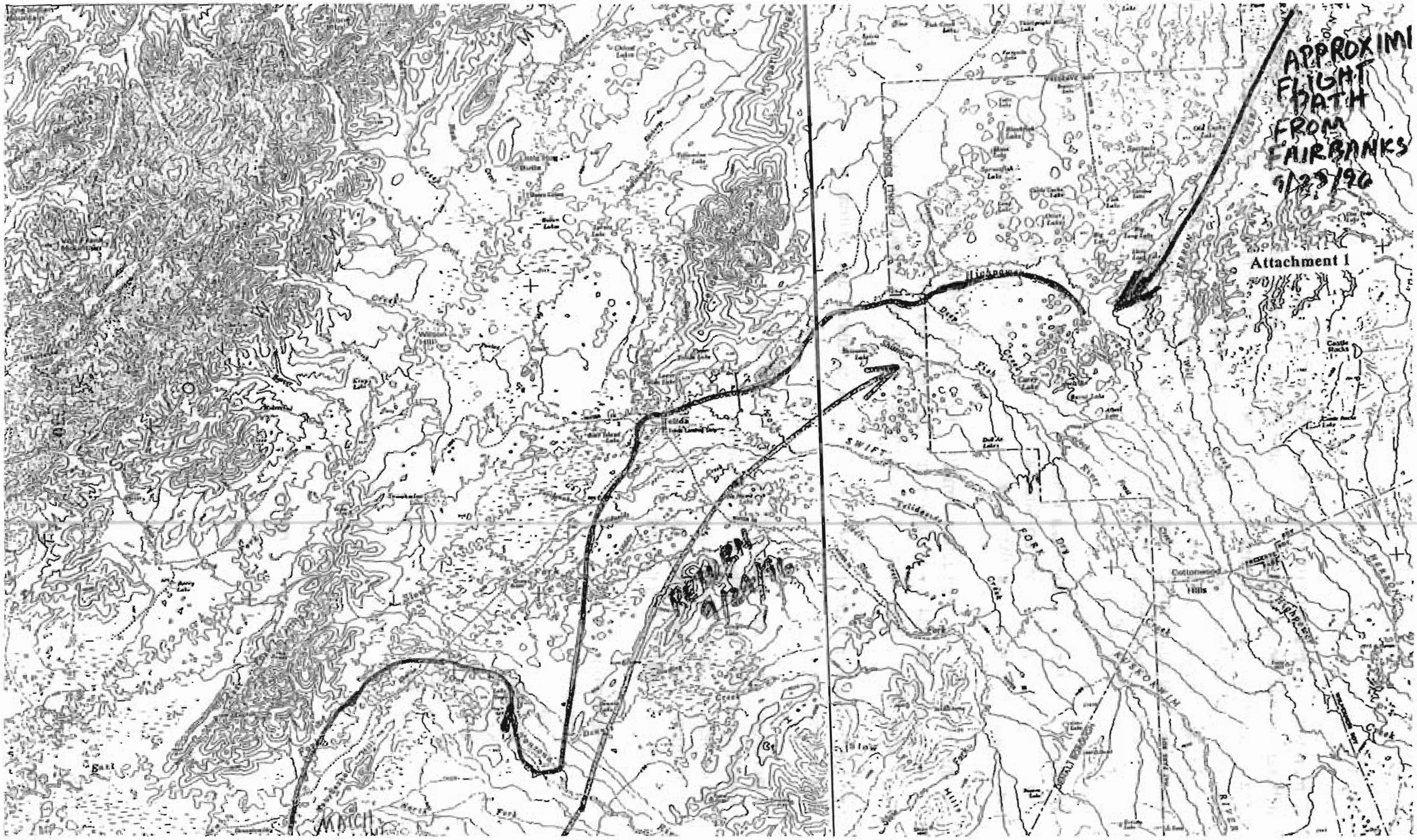
cc: Anderson
Buklis
Cannon
DuBois
Kron
McGee
Molyneaux
File (3)

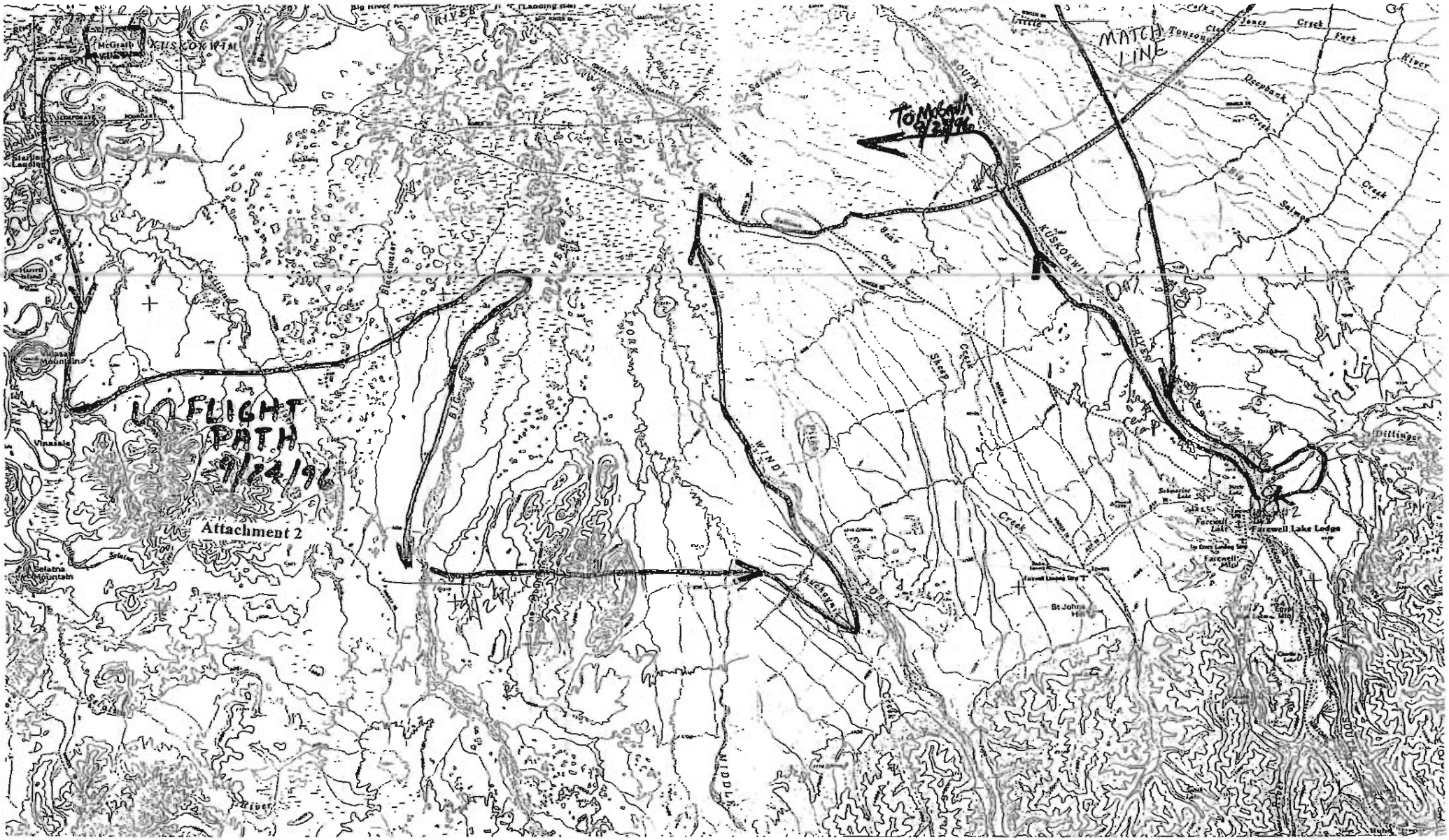
either the Fish River or trib to immediate west in either case, the trib confluence w/ High Power upstream & Shisnona

McKinley B6

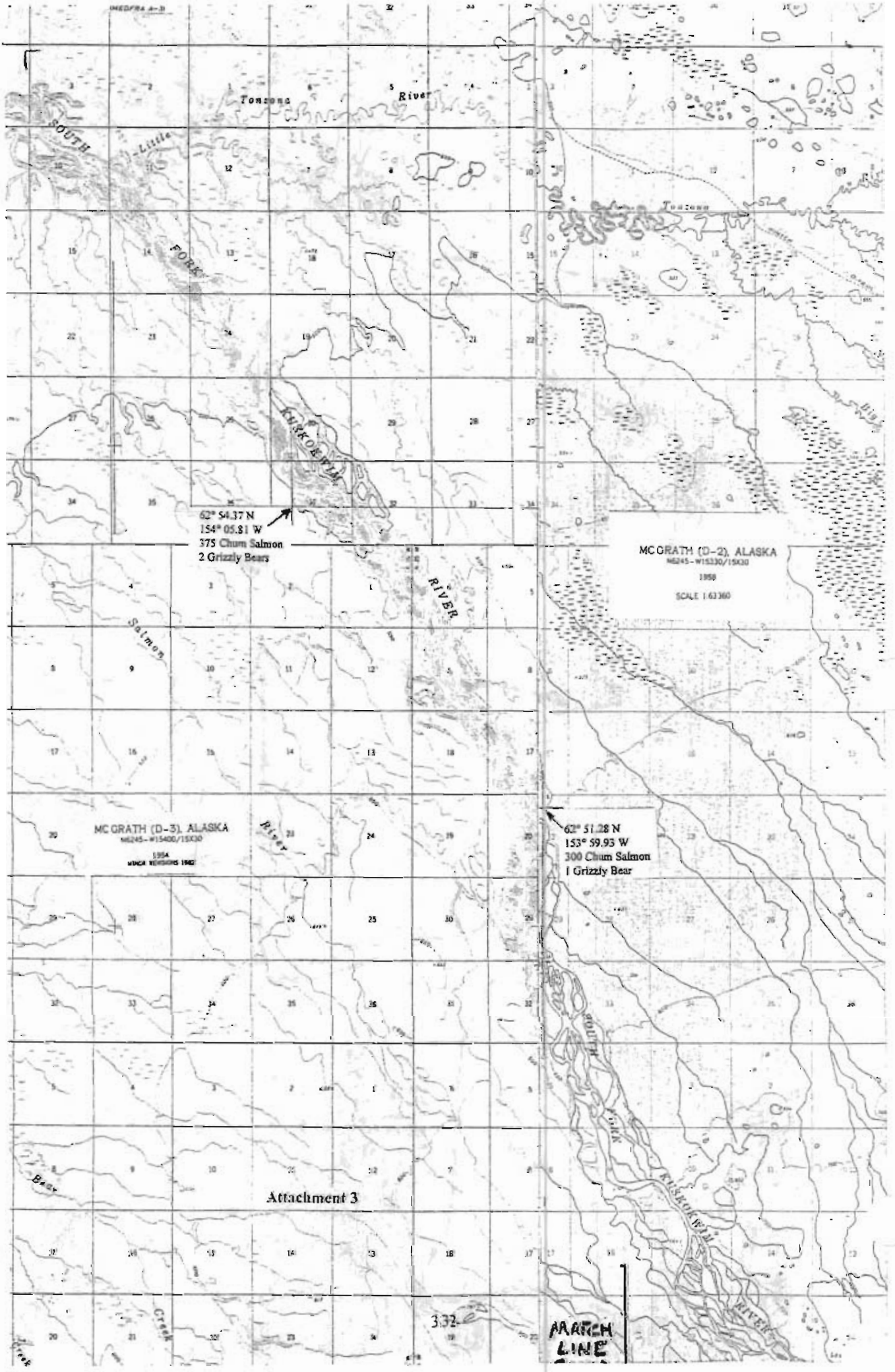


McKinley B6

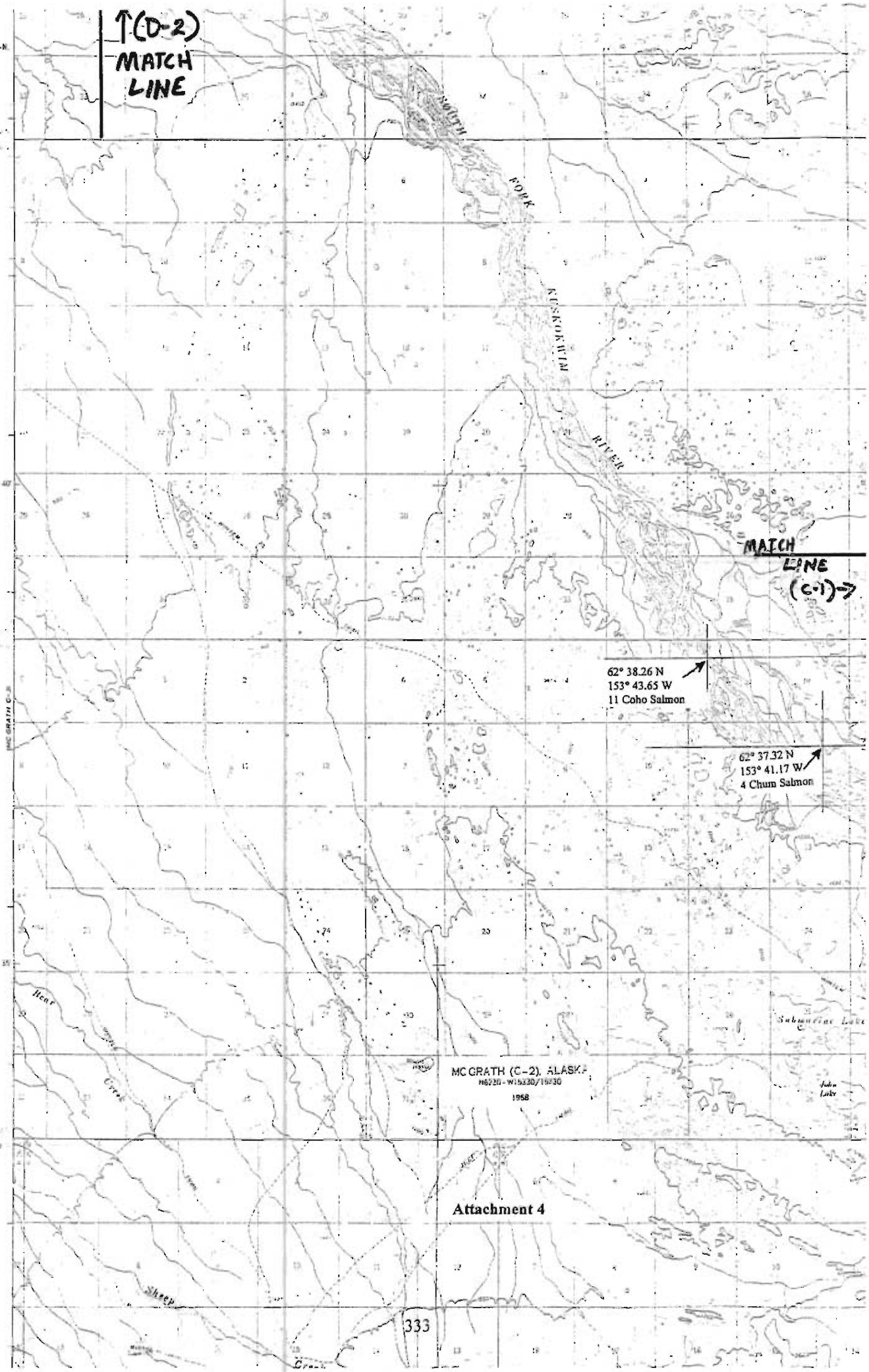

APPROXIMI
FLIGHT
PATH
FROM
FAIRBANKS
Attachment 1
SWIFT
FORK
Dry
Creek
Highpower
Cottonwood
Hills
Castle
Rocks
RIVER



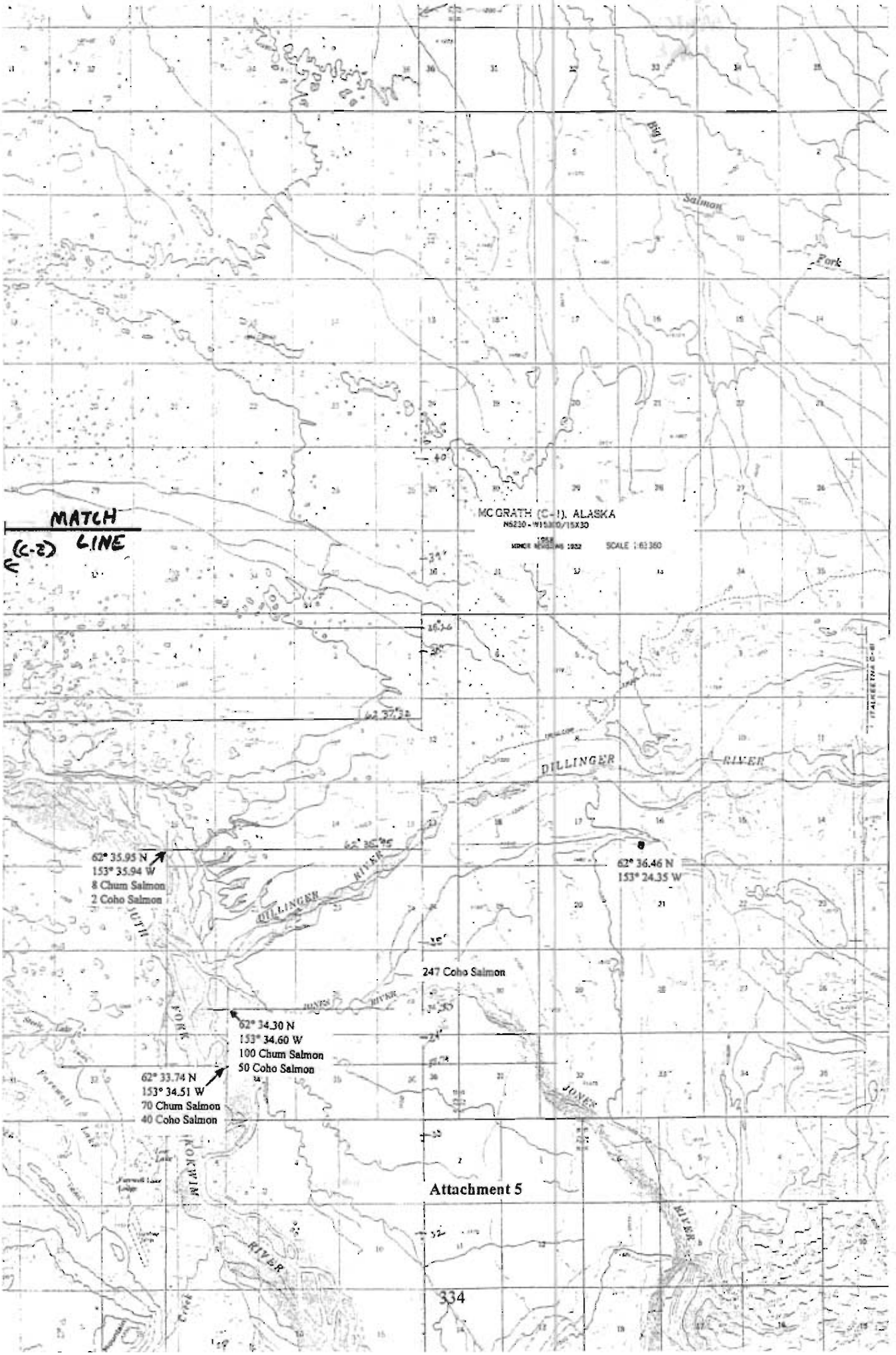
MATCH LINE
FLIGHT PATH 9/24/96
Attachment 2
To McGrath 9/23/96
KUSKOKWIM
RIVER
Big River
Vinasale Mountain
Selatna Mountain
Blackwater
Sheep Creek
Bear Creek
Deepbank Creek
Salmon Creek
Farewell Lake Lodge
Farewell Lake
St Johns Hill
Dillinger
WINDY FORK
MIDDLE FORK
SOUTH FORK



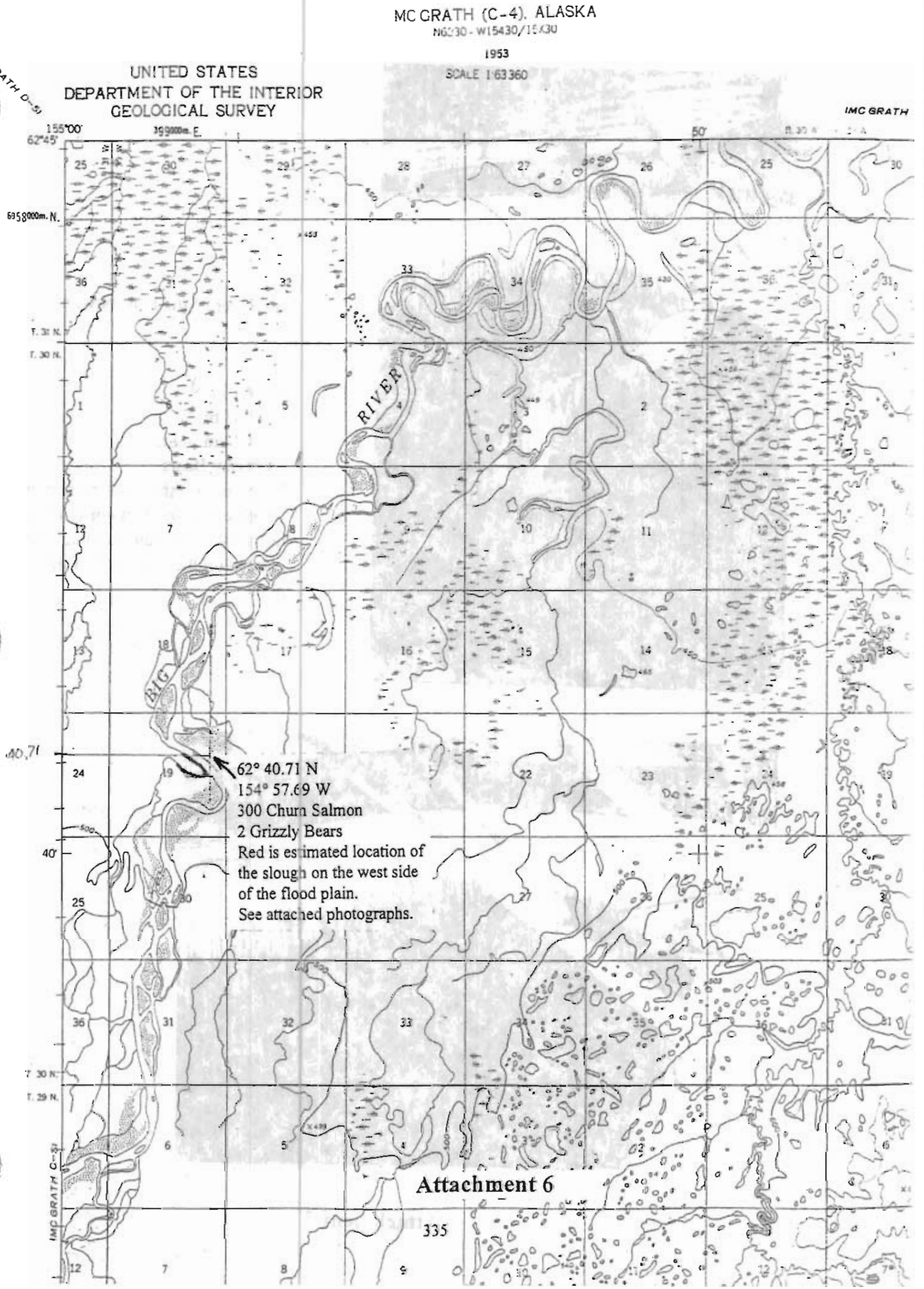
Attachment 3



Attachment 4



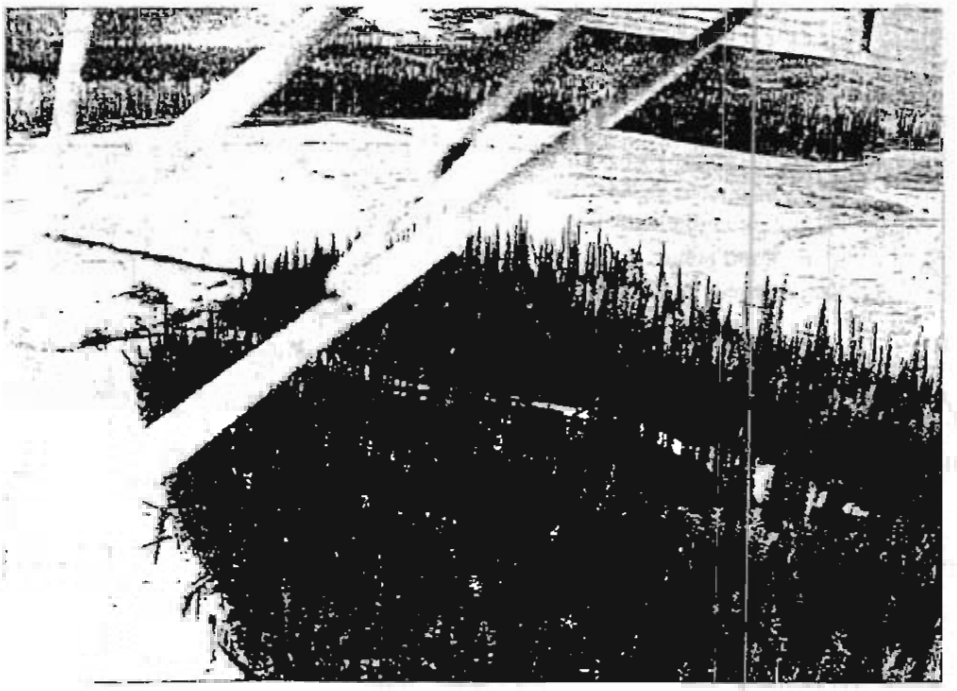
Attachment 5

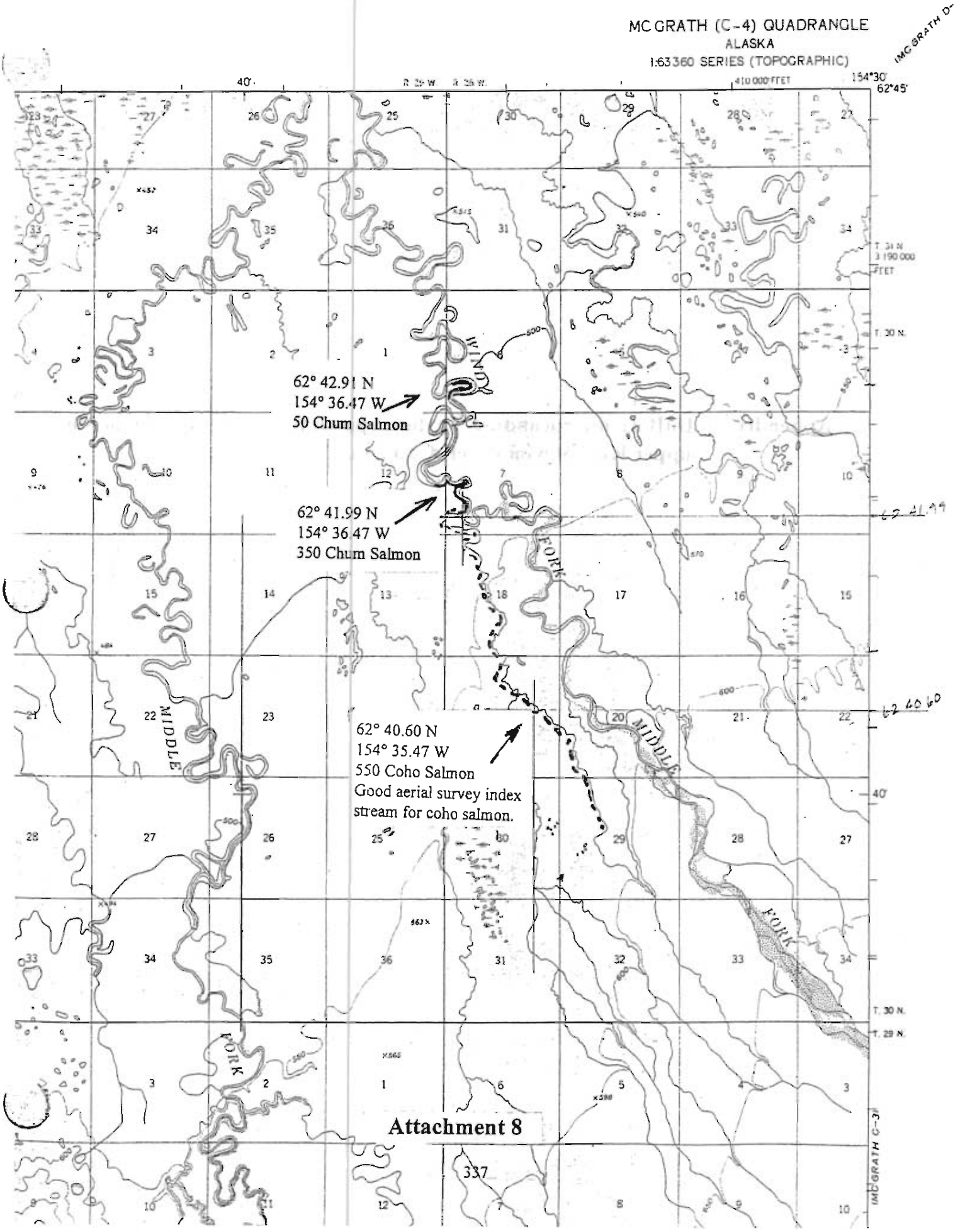


Attachment 6

Big River of the Kuskokwim

62° 40.71 N
154° 57.69 W
300 Chum Salmon
2 Grizzly Bears
Note the "V" shape of the slough which contained a majority of the fall spawning chum salmon. Slough located on the west side of the flood plain.





Attachment 8

Appendix B. DuBois memorandum on late spawning chum salmon in the upper Kuskokwim River drainage.

State of Alaska
Department of Fish and Game
Commercial Fisheries Management and Development Division
Memorandum

TO: Douglas B. Molyneaux
Kuskokwim Area Research Biologist
Anchorage

DATE: September 10, 1996

FILE: GSITRIP.DOC

PHONE: 267-2375

FROM: Larry DuBois
Fisheries Biologist
AYK Anchorage

SUBJECT: McGrath GSI
Trip Summary

GSI samples taken in 1995 from late spawning chum salmon in the South Fork of the Kuskokwim are genetically distinct from other chum salmon in the Kuskokwim. The objective of this trip was to obtain GSI tissue samples from 200-300 late spawning chum salmon and 50-100 coho salmon, in river systems adjacent to and west of the South Fork. The chum salmon component was to be collected equally from three drainages: Big River, Middle Fork, and Pitka Fork. The Salmon River flows into the Pitka Fork, which flows into the Middle Fork, which flows into the Big River, which flows into the Kuskokwim at Big River Roadhouse (Fig. 1). Samples from coho salmon were preferred from these same streams, however, subsistence caught fish from McGrath were identified as an acceptable alternative.

Ignatti Petruska, a resident of the upper Kuskokwim was initially contacted in late June concerning his availability to assist me in GSI sampling. He has a cabin on the Salmon River where it joins the Pitka Fork and good working knowledge of the other drainages. For many years his family has subsistence fished in this area. Subsequent conversations resulted in the department contracting him and his boat and motor for the reconnaissance and sampling trip.

I arrived on the morning flight to McGrath on 8/23. Jack Whitman, Game Biologist in McGrath, agreed to an aerial survey over the lower reaches of the Big, Middle, and Pitka drainages focusing on the smaller clearwater tributaries to locate numbers of chum salmon. The lower portions of the drainage below 600 ft. elevation were the areas I expected could be reached by skiff.

Aerial Survey 8/23

Mr. Whitman and myself departed McGrath at 1450 hr. in the State Super Cub. Conditions were good for surveying: winds light and variable, mostly sunny with less than 20 percent cloud cover, visibility 50 miles. We headed ESE towards the Big River, then followed the river south. This

portion of the river is wide (100-200 meters), winding, swift, and turbid. Numerous islands are present cutting the river into various channels. Chum salmon were not identified in any of the creeks surveyed on this date. A brief description of each creek is included. Possible explanations why late run chum salmon were not found are: 1) Survey area is vast and information concerning specific late run chum salmon spawning areas is lacking. 2) Timing of late run chum salmon reported to be several weeks later (pers. comm. Messrs. Petruska, Runkle, and Esai). 3) Due to the turbid nature of the main rivers, surveys were limited to the clearwater tributaries.

Perspective creeks for surveying were chosen taking into account knowledge of known salmon spawning grounds, suitable water conditions, presence of side sloughs and reasonable boat access from the lower river. The first creek surveyed originates from Lone Mt. and joins the Big River where it starts to head east (Fig. 1). From the mouth it was clear and windy with a gravel streambed, thick spruce lined the banks. A few miles up bank vegetation decreases affording better visibility, several lakes and marshes are adjacent to the stream. We surveyed for about five miles. Two miles to the east is another stream. It was choked with spruce trees, did not have a gravel bottom, and had little flow. Continuing south up the Big River no other sizable creeks were encountered. The river widens and becomes braided just above Coyle's cabin. We followed the Big until we were due east of Lone Mt., streambed elevation 700 ft. Water was still too turbid to see into the main river or any side channels. This juncture was judged to be above reasonable access by boat.

Heading NW we intercepted the Middle Fork (at 500+ ft. elevation), and flew north (downstream). The Middle Fork is glacial and turbid but not braided at this elevation. We headed east and looked at two other streams, where visibility improved. The second stream to the east was followed down past the confluence with the Windy Fork, then down the Middle Fork. The lower Middle Fork is a swift and turbid river without tributaries flowing into it. It is usually a single winding channel without islands and remains silt-laden down to the confluence with the Big River.

Turning east the Pitka Fork was intercepted at the Salmon River, the site of Mr. Petruska's cabin. The Pitka Fork is light brown colored with several clearwater tributaries. The longer branch of the north fork of the Salmon River was surveyed for a distance of 10 miles. This branch of the Salmon River is clear, has a clean gravel bottom, and winds through spruce forest, interspersed with connecting lakes and marsh. The banks of the upper reaches have low brush mixed with marsh and the river is less winding with minimal plant growth. Chinook salmon spawn in the Salmon River making it a popular destination for sport and subsistence fishermen. A weir was operated on the south fork of the Salmon River by the Division of Commercial Fisheries from 1981-1982. Fish fences were used by Nicolai residents until the mid-1960's in both forks of the Salmon River (Stokes 1985).

Bear Creek was flown down to the mouth. Bear Creek is similar to the Salmon River except for less water, more windy, and the lower portion is not as clear. Little Bear Creek was briefly surveyed as it has many submerged spruce trees, decomposing vegetation near the mouth and is shallow. Sullivan Creek , the uppermost Pitka Fork tributary surveyed was flown for a distance

of 7 miles. This creek is similar to the Salmon River: very clear to the mouth, a gravel bottom, minimal growth in the stream, fairly straight and opens up to brush interspersed with marsh. Mr. Petruska noted that one year, during hunting season, he saw at least 100 chum salmon in early to mid-September in a slough off Sullivan Creek. Turning north we picked up a branch of the south fork of the Salmon River and flew back to the Pitka Fork. Two whitish looking fish, probably sheefish, were noted. Returned to McGrath 1710 hr. after 2.3 hr. of flying.

GSI Sampling Trip 8/26 - 8/29

Departure for trip was delayed one day due to wind and rain on 8/25. Consequently, water levels were rising during the beginning of the trip. Mr. Petruska and I departed Mcgrath on 8/26 at 1030 hr. Vessel employed was a 20 ft. long and 4.5 ft. wide flat bottom aluminum skiff equipped with a 50-hp. long shaft outboard. Arrived 8 miles up Big River at 1430 hr. and proceeded to set out nets. We had three gillnets to use, two were identical, about 10 fathoms long and 1 fathom deep. The other was 13 fathoms long and 2 fathoms deep. Mesh size of all gillnets was 13.3 cm. Two gillnets were set out from the downstream point of islands. The remaining net was placed along the bank in moderate current. When checking the nets at 2000 hr. 2 coho salmon were present. We reset two of the nets to different locations. We made a short run upriver scouting for better setnet sites. Good places for setnets were not found in the lower 12 miles of the Big River partly because the water was rising from recent rains. Ideal locations for set gillnets are eddies formed when channels come together (bases of islands), at the mouths of tributaries, or formed due to some irregularity along the banks. The current was to swift to set a net offshore of sandbars, usually found on inside river bends, an efficient fishing technique in slower moving rivers. By next morning, 8/27, no more salmon had been caught. We elected to travel to the Middle Fork.

Arrived at the confluence of Middle Fork and Pitka Fork 1300 hr. Fished with rod and reel in the Pitka Fork without success. The Middle Fork is swift , turbid and varies from 75 -125 meters in width. Heavy brush and trees line the banks. We continued up the Pitka Fork towards the Salmon River. The Pitka Fork is light brown in color, meandering, 25-50 meters in width and the banks are densely wooded. The current in the Pitka Fork is slower than the Middle Fork or the Big River. After one-half hour we stopped at the mouth of an unnamed creek and sportfished again without success. Further up at Tonlhona Creek, a clearwater creek, the lower 50 meters was devoid of fish. It is very meandering, drains numerous lakes and marshes, has a slow current, 1-2 meters deep, 10 meters wide, some organic debris and moderate plant growth.

Arrived at Mr. Petruska's cabin 1545 hr. and set out a gillnet in an eddy on the inside bend of the Pitka Fork at the confluence of the Salmon River. This proved to be the most productive fishing site of the trip. By 2000 hr. 2 chum and 2 coho salmon were captured. After sampling, a short reconnaissance to Bear Creek was made and another net set out in the main current of the Pitka Fork, upriver of the cabin. In the net at the confluence on the morning of 8/27 were 3 coho and 7 chum salmon. The net in the main current of the Pitka Fork was in a poor location and damaged during removal. This was unfortunate as this was the longer and deeper net. An additional net was set on the outside bend of the Salmon and Pitka confluence.

At 1300 hr. we traveled up the Pitka Fork to survey creeks. Bear creek has some marsh near the mouth, submerged logs, slow current and the water cleared a short way up from the mouth. A good gravel bottom was becoming apparent but further travel was not advised due to submerged logs and shallow water. Little Bear Creek as noted from the air has much organic debris at the mouth and was not navigable by boat.

Sullivan Creek is a clearwater stream with a clean gravel bottom and the watercourse is fairly straight. The creek is 1-1.5 meters deep near the mouth. It is navigable for a distance of 10 miles, usually 1 meter deep and 10-15 meters wide. One chum salmon and two dolly varden were seen in the first mile. The lower reaches were thinly wooded and gave way to low brush, marsh and/or open areas of short standing dead timber from the Farewell burn. Only light amounts of water plants are growing in the lower reaches, the upper portion surveyed had negligible growth in the main channel. Five miles up is a side slough that is interconnected with a marsh and lake, depth 0.6-1 meter. This was the location where Mr. Petruska saw in excess of 100 spawning chum salmon last year during hunting season.

We returned back to camp, checked empty nets, and traveled up the south fork of the Salmon River. The old weir sites are located one-half mile up from the forks and a subsistence fishing camp up another mile. This fork is relatively wide (30-50 meters) and shallow (1 meter or less) with silt deposits. In the main current clean gravel was beginning to show when we turned around due to shallow water.

In the morning of 8/29 we caught an additional 4 chum and 4 coho salmon. The total for the trip is 11 coho and 13 chum salmon, all but 2 coho salmon from the Pitka Fork. If the deeper net was used at the confluence we may have captured more salmon. The shallow net used was not on the bottom and several salmon were captured near the lead line. The chum salmon captured were not in spawning condition. I estimate at least 10 days until these chum salmon would be near spawning condition. This is evidence that the late run chum salmon run timing is later. The coho salmon timing also appears to be later. Several of the coho salmon were not fully colored. On the return leg we motored up the Middle Fork for a distance of 8 miles. Water levels in both the Middle Fork and the Big River had dropped 10-15 cm. in the past two days. The trip back to McGrath (80 miles) took 4.5 hr.

Aerial Survey 9/1

After more interviewing in McGrath another aerial survey was planned this time looking further up the drainages. Mr. Ellis of Enterprise Flying Inc. uses a Piper PA-12 equipped with extensive STOL gear. The PA-12 is an excellent choice for survey work due to its low speed performance and visibility. We would be flying round robin to Big River, Middle Fork and Windy Fork surveying streams in the 600-1200 ft. elevation range.

Departed McGrath at 1550 hr. and headed NW towards Big River across from Lone Mt. Weather was sunny with less then 10 percent cloud cover, winds light and variable, visibility over

50 miles. Two creeks entering from the west were surveyed. The first creek, known locally as Otter Creek, was flown for about 5 miles. These creeks are dropping fairly fast from mountains so they are clear and swift, the lower reaches may be winding and are forested with spruce. Near the confluences the creeks typically parallel the main river for distances up to a mile, using one of the braided side channels of the Big River. Another creek, 5 miles up, was flown. No fish were seen in either of these creeks.

The Big River was surveyed focusing on the shallower side channels, especially near creek mouths. Starting at 900 ft. elevation coho salmon were seen. At about 1100 ft. elevation, to the west of Big River, below White Mt. Mine, is an area of streams, beaver ponds, lakes and marshes where approximately 70 coho salmon were spotted (Fig. 2). Crossing Big River three streams entering from the east were surveyed, I counted 17 coho in the lower portions. Coho salmon were observed to move into deeper water after the first pass over, or in shallow channels to dart about. Flying at 150-300 ft above the streambed apparently spooks coho salmon.

Continuing up Big River a creek joining from the south just above where the main river heads east (1400 ft. elevation) was surveyed. No fish were seen when flying but upon landing at Mr. Hannon's Big River Lodge (1730 hr.), coho salmon were reported in the pools below his camp. I interviewed Mr. Hannon and Mr. Harper at the lodge who reported that chum salmon are occasionally seen. The only salmon spawning areas they were aware of, for any species, is the area east of White Mt. Mine. Departing Big River Lodge (1830 hr.) we proceeded back down the main channel seeing more coho salmon. The upper Big River main channel was clear enough to survey down to around 1200 ft. elevation. The streams below White Mt. were looked at again on the return leg. All salmon were identified as coho salmon by coloration. Some salmon that appeared dark on the first pass over (possible chum salmon) were observed to have typical coho salmon coloration in subsequent passes and thus all salmon present in that group were tallied as coho salmon. It is likely these numbers do not reflect peak coho abundance as coho salmon were just beginning to arrrive in the upper tributaries.

Summary of aerial survey ascending the Big River drainage 9/1:

Two creeks above Lone Mt.	0
Big River side channels (800-1000 ft.)	8 coho
Streams below White Mt. (1100 ft.)	69 coho
Three streams east of Big River	17 coho
Big River (1200-1400 ft.)	9 coho
Creek above Hannon's camp	0
Pools at Hannon's camp	15 coho
Total	118 coho

No fish were seen in any of the waters surveyed after the Big River. Flying NE we intercepted the Middle Fork at 1100 ft. elevation and flew it down to around 600 ft. The upper portion is silt-laden, shallow and braided. The water had dropped in the preceding week so I could survey down almost to the confluence with the Windy Fork. The Windy Fork was surveyed up to a point about 8 miles from the base of the mountains. A portion of the Windy Fork goes underground

and another part flows to the east winding among spruce trees in a narrow channel. The reaches of the Middle and Windy Forks, just below where they become braided, wind through spruce trees with a series of small pools. This is the area on the Windy Fork is where Mr. Runkle reported numbers of late run chum salmon spawning (interview 9/2). He expects fish to show up in that area around the 15th of September.

From the upper Windy Fork we flew west over 2 channels of the Khuchaynik that flowed underground. Further west a braided stream was flown down to the Middle Fork. From here we headed directly to the confluence of the Pitka Fork and Salmon River for an air drop. Mr. Petruska had agreed to continue GSI collections during hunting season. The air cargo shipment of dry ice had not arrived before his departure from McGrath. Arrived back in McGrath 2100 hr., 4.2 hr. flight time.

Literature Cited

Stokes, J. 1985. Natural resource utilization of four upper Kuskokwim communities. Alaska Dept. Fish Game, Tech. Rep. 86, 401p.

McGrath Contacts

Cox, Cynthia/Mark 524-3517. Mr. Cox collected GSI samples in McGrath from subsistence caught early and late running chum salmon in 1995.

Coyle, Tom 524-3015. Mr. Coyle has a trapping cabin up the Big River near the 500 ft. elevation contour. He fishes for sheefish and whitefish up the river. He has seen whitefish eggs in a side slough up past White Mt. He had seen salmon skeletons up the Lyman Fork and thought these may be chum salmon (likely to be chinook or coho salmon). He had no specific locations of any salmon spawning grounds.

Dallin, Norvil 524-3516 (home), 524-3388 (school). Mr. Dallin is the high school science teacher in McGrath. Educational fishery projects include fishwheel operation during 1995. He can provide accurate information concerning run timing of chum and coho salmon from his catches. Additional plans are to collect coho salmon eggs during September 1996 , place eggs into an aquarium and study the salmon life cycle.

Dimientieff, Carla/Jim 524-3084. Subsistence fished during June. Also fished for three days August 15-20 (approximate dates). Net removed due to rising water levels. Caught 3 chum and 6 coho during August.

Egrass, Rosalie/Pete 524-3084. Subsistence fished during first three weeks in June for kings only.

Ellis, Jim 524-3550 Mr. Ellis operates Enterprise Flying Inc. out of McGrath, flying a PA-12 with extensive modifications for bush work. Enterprise is on the state approved charter list. Mr.

Ellis's PA-12 is an excellent platform for survey work having full plexiglas doors. Being wider than a supercub it can seat two in the rear but, with only one passenger visibility is unobstructed on either side.

Hannon, Robert 963-3221 (Koyuk) Mr. Hannon has operated the Big River Lodge (hunting camp) for 23 years. Big River Lodge is located on west side of the valley, just above where the main braided channel of the Big River comes in from the east, at 1400 ft. elevation. Mr. Hannon regularly sees late run chinook (50-60) and coho salmon (50-100) in the clearwater river that flows past his lodge from the south. He has occasionally seen late run chum salmon up in the vicinity of the lodge, but not every year and only a few (estimate 0-10 per year). When asked about spawning sites for chum salmon he noted the only aggregations of any species of spawning salmon are located 20 miles downriver in a series of streams and pools below and east of White Mt. Mine. This area was surveyed before and after speaking with Mr. Hannon and there I observed the largest numbers of coho salmon.

Harper, Steven Mr. Harper and friend are the winter caretakers at Big River Lodge. Since they both have worked for the Fish and Wildlife Service during salmon season, they assured me they can accurately identify salmon by species. Mr. Harper reported arrival to the lodge last year on October 3 and shortly noticed 3-5 chum salmon carcasses on the gravel bars. They collaborated with Mr. Hannon that coho and chinook salmon are here every year, but chum salmon are occasional.

Petruska, Joyce/Ignatti 524-3428. Mr. Petruska has been most valuable in his assistance to the Department. He is an excellent source for fisheries information in the McGrath-Nicolai area. He agrees with Mr. Esai that this is a little early for the late run chum salmon. As noted earlier he saw late running chum salmon in Sullivan Creek during moose hunting season (September). He had been up to the mouth of Sheep Creek and did not see any chum salmon during September. He has also assisted the Department by collecting GSI samples from chinook salmon in the Salmon River.

Standish, Louise/Tim Channel 33. The Standish homestead is on the Takotna River. Tim and Louise are assisting Mr. Ursel in subsistence fishing and GSI sampling of coho salmon for 1996.

Skinner Beverly/Robert 524-3580 (home) 524-3251 (office) Mr. and Mrs. Skinner both work for the Innoko National Wildlife Refuge and were helpful with providing local contacts. Mrs. Skinner teaches a science camp on the Kuskokwim below McGrath during the week of August 19-23. During this camp a set gillnet was fished for three days and captured five coho salmon.

Ursel, Brent 524-3727. Mr. Ursel subsistence fishes for king, chum and coho salmon. He reports that in the previous three years the peak of the early run chum salmon occurred from the end of June until July 4. During 1996 the early run chum peaked on June 27 with 26 chum caught on that day. Mr. Ursel's net is located in the Kuskokwim River at the mouth of the Takotna. Mr. Ursel customarily fishes for coho salmon from August 15 until the end of September. During 1995 he caught 70 late run chum salmon in this time period, the first late run

chum salmon showing up on September 3. Peak late run chum numbers were 8-10 per day around the second week in September. Mr. Ursel is currently collecting GSI samples of coho salmon caught in his subsistence net.

Whitman, Jack 524-3323 (office), 524-3711 (home). Mr. Whitman is the Game Biologist for ADF&G. In past years he has noted chum salmon at Post Lake at the end of August. Chum salmon were also seen in the lower reaches of the Jones and Dillinger Rivers during the first half of September.

Woods, Robert 524-3525. Mr. Woods operates Woods Air, primarily flying a Cessna 206. He regularly flies clients into hunting camps located on the Big River drainage. He had no information about late run chum salmon but he has seen grizzly bears on the Middle Fork. Several persons had suggested to me that the presence of grizzly bears on a river is an indicator of spawning salmon.

Niolai Contacts

Dennis, Nick Mr. Dennis is a resident of the upper Kuskokwim and has a good working knowledge of the area. He has fished, hunted, guided and trapped in the area for many years.

Esai, Phillip 293-2326. Mr. Esai is another resident familiar with the area. He has a fish camp at the mouth of the Blackwater River. He is a hunting guide at Silvertip Lodge located on the Khuchaynik River, a tributary of the Middle Fork. He relates that chum salmon are spawning during September in the Big River (probably referring to the Middle Fork), and a canoe is advised for access from the lower river. He said it is likely too early for the coho and late run chum salmon (interviewed 8/24). Specific locations of spawning fish could not be ascertained from Mr. Esai.

Petruska, Donald He collected GSI samples from late run chum salmon in the South Fork Kuskokwim River in 1995.

Petruska, William 293-2127 Mr. W. Petruska has a cabin on the Middle Fork about halfway between from the Big River and the Windy Fork.

Runkle, John 293-2329. Mr. Runkle has guided in the area for 17 years. He runs Silvertip Lodge on the Khuchaynik River. He reports that late run chum salmon spawn in the lower Windy Fork showing up about September 15. The lower Windy Fork is not braided, winds through spruce trees, and has a series of pools where the chum salmon are found. He estimates "many fish" present (probably more than 100). The upper end of this spawning area is around the 500 ft. elevation contour. Mr. Runkle also guided in the Cheeneetnuk River drainage from 1986-1988. He reports small numbers (15-20) of late run chum salmon in lower Shoeleather Creek (elevation 650-750 ft.) He has also heard of late run chum salmon up the Tatlawiksuk River.

Locations

Big River Roadhouse	N 62° 57` , W 154° 55`
First creek surveyed Big River 8/23	N 62° 45` , W 154° 48`
Pitka Fork and Salmon River	N 62° 54` , W 154° 34`
Coho salmon numbers Big River	N 62° 10` , W 154° 42`
Spawning grounds Windy Fork	N 62° 45` , W 154° 37`
Sullivan Creek	N 62° 48` , W 154° 30`

cc: Anderson
Burkey
Cappiello
Crane
Gray
Holder
Whitman

State of Alaska
Department of Fish and Game
Commercial Fisheries Management and Development Division
Memorandum

TO: Douglas B. Molyneaux
Kuskokwim Area Research Biologist
CFMD / Anchorage

DATE: October 18, 1996

FILE: GSITRIP2.DOC

PHONE: 267-2375

FROM: Larry DuBois
Fisheries Biologist
CFMD / Anchorage

SUBJECT: McGrath GSI
Trip 2 Summary

This memo covers my second trip to the McGrath area for GSI collections of late spawning chum salmon. Russ Holder contacted me on September 25, 1996 with his aerial survey observations of the upper Kuskokwim. On September 24, 1996 he located 300 chum salmon in a side slough of the Big River at Global Positioning System (GPS) 62° 40.71/154° 57.69. He also reported 350 chum salmon at GPS 62° 41.99/154° 36.47, on the lower Windy Fork. In my previous McGrath trip I interviewed persons concerning locations of late spawning chum salmon. The first location had not been referred to by anyone in the upper Kuskokwim area. The second location was referred to by numerous persons, often as a grizzly bear hunting location.

On September 28, 1996 Bruce Whelan (ADF&G Genetics) and myself arrived in McGrath 0930 hr. At 1100 hr. we departed in Jim Ellis's PA-12, heading directly to GPS 62° 40.71/154° 57.69, the Big River. This location was recommended by Russ Holder as being the most readily accessible. Weather was high solid overcast, calm, temperature 30° F with 4-6 inches of snow on the ground. The coordinates are approximately one quarter mile north of the actual location of the spawning chum salmon. After arriving at the coordinates we looked in two side sloughs to the east, bear tracks followed one slough, but no fish were observed. Subsequently, flying to the south and slightly west we found the salmon, in a side slough separated from the main river by the floodplain and a band of trees. Visibility of the salmon was enhanced by the lighter colored gravel substrate. A grizzly bear was feeding in the stream.

We landed on a gravel bar one-quarter mile from the spawning grounds. Upon arriving at the side slough, a brief foot survey was conducted. I estimated 300 chum and 5 coho salmon in a 0.2 mile section. No carcasses were observed in the water but about 10 carcasses were on the banks with numerous grizzly bear tracks crisscrossing the area. Over half of the salmon were concentrated in a V shaped bend where the grizzly bear was seen. Smaller schools of 2-40 salmon were

immediately above and below the main group. Substrate was mixture of lighter colored clean cobble and gravel surrounded by areas of silt and mud. All salmon were situated over the cobble/gravel habitat. Average depth of the spawning areas was 18 inches, width of stream 40-50 feet with maximum depth of 4-5 feet.

We easily captured the goal of 100 chum salmon. Spears proved ineffective as the fish spooked when approached. A gillnet was placed above the main concentration. A beach seine was worked upstream towards the gillnet. About 45 salmon were captured with one 25-foot seine haul, the gillnet captured the remainder. Upon collecting GSI samples 60% of the fish were spawned out. No measurements of length were made, but from my experience sampling chum salmon in the District 1 fishery, I observed males to be larger than average. Actual time spent capturing fish was 1 hour, cutting fish was 3.5 hours. We arrived back in McGrath 2000 hr.

cc: Anderson
Buklis
Burkey
Cappiello
Crane
Gray
Holder

Appendix C. Crane memorandum on the proportion of late spawning chum salmon in the 15 July 1996 sample from the District 1 commercial fishery.

MEMORANDUM

State of Alaska

DEPARTMENT OF FISH AND GAME

TO: Doug Molyneaux
FBIII
Anchorage

DATE: April 27, 1998

FAX NO: 267-2435

TELEPHONE NO: 267-2140

FROM: Penny Crane
FB II
Anchorage

SUBJECT: Kuskokwim River
GSI

On 7/16/96, 210 chum salmon were sampled from a District W1 commercial opening in Bethel. Stock composition estimates using genetic stock identification were obtained from these fish and presented to Kuskokwim Area staff in October 1996.

For the analysis a baseline was constructed using allele frequency estimates from early-run chum salmon sampled from Kwethluk River 1994; Tuluksak River 1993; Aniak River 1992; Kogrukluk River 1992, 1993; Tatlawiksuk River 1994; Fourth of July Creek 1994; and late-run chum salmon sampled from South Fork Kuskokwim River 1995 and mixed-stock chum salmon collected at McGrath in 1992. Twenty allozyme loci were used in the mixture analyses.

We conducted a simulation study to determine if early- and late-run chum salmon from the Kuskokwim River could be identified in Kuskokwim River mixtures. In a simulation, both mixture and baseline genotypes were randomly generated using Hardy-Weinberg expectations from the baseline data. One hundred simulations were performed for each stock group where each stock group (early-run or late-run) comprised 100% of the mixture (N=400). Mean estimates for each group indicated that early- and late-run stocks could be identified in mixtures (early-run: mean estimate=0.99, S.D.=0.0131; late-run: mean estimate=0.96, S.D.=0.0301).

This baseline was used to obtain stock composition estimates on the 210 sampled from the District W1 commercial opening in Bethel:

Stock	Estimate	Std.Err.	CV
early run	.8622	.0417	.48E-01
late run	.1184	.0417	.35