ABUNDANCE, AGE, SEX, AND SIZE STATISTICS FOR SOCKEYE, CHUM AND PINK SALMON IN LOWER COOK INLET, 2001

By

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and
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ABSTRACT

Aerial and foot surveys were used to estimate the 2001 sockeye *Oncorhynchus nerka*, chum *O. keta*, and pink *O. gorbuscha* salmon escapements in the Lower Cook Inlet management area. Age, length and weight samples were obtained from four sockeye and one chum salmon stock. A total of 216,271 sockeye, 88,969 chum and 592,931 pink salmon were harvested in this management area. Another 56,440 sockeye, 242,883 chum, and 780,346 pink salmon were estimated in the spawning escapement. The dominant ages of sockeye salmon throughout Lower Cook Inlet were 1.2 and 1.3. The proportion of sockeye salmon males ranged from a low of 39.0% in the Kirschner Lake sample to a high of 67.0% in the Bear Lake escapement catch sample. Sockeye salmon ranged in mean size from 491 mm in the Neptune Bay sample to 571 mm in the escapement sample at Delight Lake and from 1.86 kg to 2.75 kg from the commercial catches at Neptune and Bear Lake respectively.

KEY WORDS: Age, chum salmon, escapement, length, Lower Cook Inlet, pink salmon, Oncorhynchus, sex, sockeye salmon, weight

INTRODUCTION

The Lower Cook Inlet (LCI) Management Area for commercial salmon fishing is composed of all waters west of Cape Fairfield in the Gulf of Alaska, north of Cape Douglas in Shelikof Straits, and south of Anchor Point in Cook Inlet. The area is divided into five management districts: Kamishak Bay, Barren Islands, Southern, Outer, and Eastern (Figure 1); fishing does not occur in the Barren Islands District. Purse seines and set gillnets are the only legal gear types for the common property salmon fisheries, however, private non-profit hatchery operations also use weirs for cost-recovery harvests. Entry into the commercial fishery was limited in 1972.

In 1961, the Alaska Department of Fish and Game (ADF&G) began documenting LCI commercial catches of the five Pacific salmon species that occur in Alaska. Sockeye *Oncorhynchus nerka* and chum salmon *O. keta* catch sampling for age, weight, length (AWL) and sex began in 1970. AWL data between 1970 and 1986, and between 1988 and 1997, has been summarized by Schroeder (1984, 1985, 1986), Morrison (1987), Yuen et al. (1989, 1990, 1991, 1992), Yuen and Bucher (1994a, 1994b, 1995) Otis, Bechtol and Bucher (1998), Otis and Dickson (1999a, 1999b and 1999c) and Otis and Dickson (2002). There was no catch-sampling program in 1987. Aerial and ground escapement surveys of pink salmon *O. gorbuscha* began in 1960, sockeye salmon *O. nerka* in 1969, and chum salmon in 1974. Annual escapement data are summarized in annual management reports for the Lower Cook Inlet Area (e.g., Bucher and Hammarstrom 1999).

Historically, fishing for a single species within a bay or drainage has lasted three to six weeks. Sockeye salmon fisheries begin as early as June while pink and chum salmon fisheries begin in July. Both fisheries end in August. Commercial fishing for chinook *O. tshawytscha* has begun as early as June and fishing for coho *O. kisutch* has extended into September. Current management strategy is structured around established fishing districts and sub-districts to facilitate management of discrete stocks. Commercial harvests are managed to meet predetermined escapement goals and to obtain adequate escapement for all run segments of a stock.

The purpose of the Lower Cook Inlet salmon catch-sampling program is to collect sockeye and chum salmon AWL data from purse seine fisheries that target discrete stocks. These single-stock fisheries normally account for over 90% of the total sockeye and chum catch from Lower Cook Inlet. The purse seine fisheries in the Halibut Cove, Tutka Bay and Douglas River sub-districts, and set gillnet fisheries in Lower Cook Inlet were not usually sampled because they did not target specific local stocks. Chinook salmon samples also were not collected because their total harvest is typically <1% of the total salmon catch. The coho and pink salmon catches normally are not sampled because they exhibit little inter-annual age composition variation.

This report summarizes the 2001 estimates of age, sex and size composition of samples obtained from five discrete sockeye salmon fisheries and one chum salmon fishery. Monitoring changes in age composition allows fishery managers to prepare preseason forecasts of abundance and evaluate spawning escapement goals. This report also summarizes methods used to estimate total escapement from aerial and ground surveys.

METHODS

The Lower Cook Inlet salmon harvest is managed as 16 independent purse seine fisheries, most of which target discrete stocks, each with their own escapement goal. Individual stocks occurred within distinct geographical sampling strata (Figure 2).

Most catch samples were obtained dockside when tenders were delivering catches from a single fishery. If tenders were expected to gather fish from several fisheries before returning to port, then samples were obtained aboard the tender before salmon from the targeted fishery were placed in the hold. The catch sampling crew interviewed the fishers delivering salmon to determine the origin of the catch before taking samples. If none of the above were possible then samples were obtained from a tender hold provided the skipper was interviewed to confirm that no salmon from an earlier sampling period were present.

This was the second consecutive year that chum salmon returns to LCI, particularly the Kamishak Bay District, were above average. As a result, commercial fishing for chum salmon was allowed in the Douglas and Kamishak River subdistricts as well as the Ursus and Rocky Cove subdistricts. Sockeye salmon age composition estimates were based on samples taken from three commercial fisheries- China Poot Bay, Neptune Bay and Kirschner Lake, and two escapement samples obtained from Delight and Bear lakes.

Salmon were measured from mid-eye to fork of tail ($\pm$1 mm) using a *Limnoterra*[2] electronic fish measuring board (FMB IV). An *Ohaus*[2] (Model CT6000-S) electronic balance was used to weigh salmon to the nearest gram. Sex was generally determined from external secondary sexual characteristics (*e.g.* kipe, humped back, etc.). If necessary, a small incision near the vent was made to inspect the gonads and confirm the sex.

Scales were collected from commercial catch and escapement sampled fish to determine age. When possible, scales were collected from the *preferred area* of each salmon: an area 2-3 rows above the lateral line, posterior to the dorsal fin and anterior to the anal fin. Scales were cleaned and mounted ridged side up on a gummed card and then heat-pressed onto acetate cards for reading and archival. Images of scale impressions were magnified 35x and projected on a microfiche reader so the number of annuli per scale could be counted to determine age.

We used the European age designation system (Koo 1962). The first digit in this system refers to the number of freshwater annuli, the second digit refers to the number of marine annuli, and the total age is the sum of the two digits plus one. For example an age-1.2 salmon is a 4-year old salmon that spent 2 years in fresh water (first winter spent in the gravel as an alevin) and 2 years at sea.

[2]Vendor or product names are provided to document methods and do not constitute endorsement by ADF&G.

Age composition sample sizes for scale collection were set for each sampling stratum to estimate age proportions p_I from a population of k age groups simultaneously within a specified distance d of their true population age proportion π_i, 90% of the time (1-α). That is,

$$Pr(\bigcap_{i=1}^{k} |p_i - \pi_i| \leq d) \geq 1 - \alpha, \qquad 1$$

where d and α were respectively chosen to be 0.05 and 0.10 for all scale samples; $\alpha_i = 2(1 - \Phi(z_i))$, $\Sigma\alpha_i < \alpha$, $\Phi(z_i)$ = area under the standard normal distribution: and $z_i = d\sqrt{n_i}/\sqrt{(p_i(1-p_i))}$. Thompson (1987) calculated a maximum sample size of 403 for a worst-case scenario when three age groups were present in equal numbers, where $d = 0.05$ and $\alpha = 0.01$. Any deviation in the number of age groups or unequal contributions by age group would require a smaller sample size.

Sample sizes for mean weights ranged between 5 and 50 depending on σ. Most sample sizes were around 20 for a 200-salmon sample, or 1 in 10 salmon of each sex.

Estimates of standard errors by age group were derived according to procedures for stratified random sampling described by Snedecor and Cochran (1967):

$$SE = \sqrt{\Sigma C_h^2 \frac{s_h^2}{n_h}}, \qquad 2$$

where C_h = the salmon catch in the hth stratum, and s_h^2 = the sample variance in the hth stratum. Catch totals were obtained from harvest receipts (commonly referred to as fish tickets) which must be used to document each landing by a licensed fisher.

All pink and chum and most sockeye salmon escapement estimates in Lower Cook Inlet were based on periodic counts made by an observer either flying in a fixed-wing aircraft or walking along selected streams (Tables 1, 2 and 3). Sockeye salmon escapement estimates for English Bay, Delight and Bear Lakes were based on counts made at weirs.

Pink and chum salmon generally accumulated in surveyed streams over time, however, many often died before the last survey was completed. Therefore, survey counts were usually adjusted for steam life: the average length of time a spawning pink or chum salmon was alive and available to surveyors. Our method of considering stream life in estimating total pink and chum salmon escapements was similar to that described by Johnson and Barrett (1988). First, daily surveys were converted to fish-days:

$$fish\text{-}days = \frac{(x_i + x_{i-1})}{2}(d_i - d_{i-1}), \quad 3$$

where d_i = Julian calendar date of survey i ($1<d<365$) and x_i = number of live pink or chum salmon observed in the study stream during survey I. Then, the area under the fish-day curve is found by integration:

$$area = \sum_{i=1}^{n+1} \frac{(x_i + x_{i-1})}{2}(d_i - d_{i-1}), \quad 4$$

where n = total number of surveys, $x_0 = x_{n+1} = 0$. Pink and chum salmon were not expected to enter streams before 1 July (d_o = Julian date 191) or after 15 September (d_n+1 = Julian date 258) unless otherwise noted.

Finally, dividing fish-days by stream life, in this case 17.5 d, yielded total escapement in numbers of salmon:

$$escapement = \frac{\sum_{i=1}^{n+1} \frac{(x_i + x_{i-1})}{2}(d_i - d_{i-1})}{17.5}. \quad 5$$

If this estimate was less than the greatest number of salmon observed on any one survey, we used the peak survey count instead of the result from equation (5) as the total escapement estimate. If both aerial and ground surveys were available, we selected the survey we believed to be the most accurate estimate of total escapement. Sockeye salmon tended to accumulate in surveyed lakes and most were often still alive after the last spawning surveys were completed. Accordingly, peak counts were used as an escapement index for this species, unless otherwise noted.

RESULTS

In 2001, Lower Cook Inlet salmon harvests included 216,271 sockeye, 88,969 chum, and 592,931 pink salmon; total escapements were estimated to be 56,440 sockeye, 242,883 chum, and 780,346 pink salmon. Included in the cumulative escapement are several broodstock harvests including: 4,200 sockeye for Bear Lake, 179,006 pink for Tutka Hatchery, 19,145 pink for Port Graham Hatchery, and 0 sockeye for English Bay lakes (Tables 4, 5, and 6).

Sockeye salmon catch or escapement age, weight, and length (AWL) samples were collected in four commercial fishing districts: Southern, Outer, Eastern and Kamishak. Samples from sockeye salmon fisheries were obtained between 27 May and 17 July; chum salmon samples were collected on 19 and 25 July. AWL samples were collected from the commercial catch or escapement of each sockeye stock in Lower Cook Inlet that was commercially fished in 2001.

All three of the sockeye catch samples met or exceeded the 90% confidence level where d = 0.05. Both the sockeye escapement sample (Bear and Delight Lake) also met this criterion, as did the commercial catch sample of chum salmon harvested mostly from the Kamishak River Subdistrict. A total of 3,163 sockeye and 625 readable chum scales were collected (Table 7).

Southern District Sockeye Salmon

The only Southern District fisheries assumed to be harvesting discrete sockeye salmon stocks occur in China Poot, Neptune, and English bays. The runs originating from Leisure Lake, which drains into China Poot Bay, and Hazel Lake, which drains into Neptune Bay, supported the 2 largest sockeye fisheries in Lower Cook Inlet in 2001. Both of these runs were enhanced by ongoing lake stocking programs that began in 1976 and 1988 respectively. The 2001 common property commercial fisheries in China Poot and Neptune bays harvested 43,676 and 46,973 sockeye salmon respectively. Cost recovery efforts accounted for additional 21,479 and 5,558 sockeye salmon at China Poot and Neptune Bay respectively. Biological data on sockeye salmon returning to China Poot and Neptune bays have been collected since 1980 and 1993 respectively (Appendix A). The mean sockeye weight in our China Poot catch sample was 2.00 kg (n = 54) and the mean length was 510 mm (n = 561). The China Poot catch sample consisted of 79.2% age-1.2 sockeye salmon and 38.7% females (Table 8). Sockeye salmon aged-1.2 made up 73.7% of the Neptune Bay sample with males comprising 57.3%. The mean sockeye weight and length in the sample was 1.86 kg and 491 mm, respectively. Since a barrier falls prevents upstream spawning migration into Leisure Lake, efforts were made to harvest all returning sockeye salmon in that terminal fishery.

The Halibut Cove sub-district purse seine and set gill net fishery exploits mixed stocks and harvested 5,800 sockeye salmon in 2001. Mixed stocks were also harvested in various set gillnet fisheries. The reported set gillnet harvest of sockeye salmon near Barabara Creek was 6,455; 16,505 sockeyes were harvested in Kasitsna/Tutka bays, and 8,965 in Seldovia Bay. Set gillnet fishing was not allowed in the Port Graham Subdistrict in 2001 because of a forecasted weak return of sockeyes to the English Bay Lake system. The only large spawning escapement of sockeye salmon in the Southern District occurred in the English Bay River where 10,508 sockeye salmon passed through the weir and into the lake system. However, the adult sockeye remained in deep areas of the lake late into the season and were not accessible for brood stock. (Paul McCollum, Port Graham Hatchery Manager, personal communication).

Outer District Sockeye Salmon

Wild runs in Nuka Bay supported a commercial harvest of 7,336 sockeye salmon in 2001. Biological data on sockeye salmon returning to Nuka Bay have been collected since 1984 (Appendix B). A sample of 446 fish from the Delight Lake escapement taken from 10 July through 31 July consisted of 86.5% age-1.3 and 12.7 % age-1.2 sockeye salmon with an overall mean length of 571 mm (Table 9). Delight and Desire Lakes had an escapement index of 10,110

and 5,470 sockeyes respectively; 2,840 sockeyes were estimated for the escapement into Delusion Lake (a.k.a. Ecstasy Lake).

Eastern District Sockeye Salmon

The escapement index to Aialik Lake was estimated to be 5,100 fish in 2001. Biological data on sockeye salmon returning to Aialik Lake have been collected since 1983 (Appendix C). Although commercial fishing was allowed in the Aialik subdistrict in 2001, no effort ensued and no AWL samples were collected.

The enhanced runs into Bear and Grouse lakes in Resurrection Bay supported a common property commercial harvest of 2,629 sockeyes and a hatchery cost recovery harvest of 11,180 fish. The Cook Inlet Aquaculture Association (CIAA) counted 8,606 sockeye salmon through the weir into Bear Lake (Jeff Hetrick, CIAA, personal communication). A sample collected at the Bear Creek weir by CIAA staff consisted of 65.1 % aged-1.3 sockeye salmon with an overall mean length of 528 mm and weight of 2.75 kg (n=390; Table 11). Enhancement of Grouse Lake was discontinued in 1998 and no further adult returns are anticipated after 2001.

Kamishak Bay District Sockeye Salmon

There were two common property sockeye fisheries in Kamishak Bay in 2001. At Kirschner Lake, 9,198 fish were harvested with an additional 29,740 sockeyes harvested for cost recovery purposes. A sample of the commercial catch consisted of 58.7% age-1.2 fish with an overall mean length of 505 mm (n=491) and a mean weight of 1.91 kg (n= 42). A migrational barrier at Kirschner Lake precludes escapement to this enhanced system and all fish are available for harvest. A harvest of 275 sockeyes occurred within the McNeil River subdistrict on stocks bound for Mikfik Lake. No AWL sample was taken.

The Chenik Lake Subdistrict remained closed due to the small run of 250 sockeye salmon. The Chenik Lake weir (in operation from 1989-1997) was not installed and the sockeye escapement was estimated by means of aerial survey. Chenik Lake's natural run was supplemented with hatchery-reared sockeye juveniles as early as 1978; however, the run has been extremely weak in recent years due to an IHN epizootic. Biological data on sockeye salmon returning to Chenik Lake have been collected opportunistically since 1985 (Appendix D).

Escapement indices to other Kamishak District streams included 700 sockeye in Bruin River, and 2,690 in Amakdedori Creek.

Lower Cook Inlet Chum Salmon

Chum salmon returns to LCI, particularly the Kamishak Bay District were above average for the second consecutive year. As a result, commercial fishing for chum salmon was allowed in the Douglas and Kamishak River subdistricts as well as Ursus, Iniskin and Cottonwood subdistricts. Commercial chum catches for the Douglas and Kamishak River subdistricts were over 10,300 and 73,000 fish respectively, while a small catch of nearly 1,500 chum salmon was reported for the Rocky Cove subdistrict. The LCI commercial chum salmon harvest of 88,969 fish (Table 5) was the highest since 1988 and exceeded the 20-year average by over 11.0%. However, the McNeil River chum escapement (estimated at 17,000 fish) failed to reach even the low end of its escapement goal range of 20,000 to 40,000 for the tenth time since 1990. AWL data was collected from the commercial chum catch at the Kamishak River subdistrict and consisted of 94.4% age-0.4 fish with an overall length of 643 mm (n=625) and weighing 4.32 kg (n=58) (Table 12).

Lower Cook Inlet Pink Salmon

Virtually all pink salmon exhibit a two-year life cycle so catch samples typically are not collected to determine age composition of returning stocks. However, catch and escapement data are compiled to facilitate in-season management of the commercial fishery and to forecast the following years return (e.g., Otis 1997). The 2001 LCI pink salmon catch totaled 592,931 fish, the lowest odd-year pink salmon catch since 1987 (Table 6). Over 91% of the total harvest occurred in the Southern District, largely as a result of Tutka Hatchery production (Table 6). Nearly 78% of the Southern District catch went to Tutka Hatchery cost recovery. Brood stock collection at Tutka Hatchery and the common property fishery in Tutka Bay subdistrict harvested an additional 179,006 and 109,682 fish respectively. In the Outer District, pink salmon escapement to Port Dick Creek, one of two major pink producing streams in Port Dick, was estimated at 44,700 fish. That escapement was considerably less than the 124,000 fish that spawned in Port Dick Creek in 2000, but it was the highest odd-year escapement since 1991. Pink salmon escapement at Island Creek, the second major producer, was estimated at nearly 82,000 fish, almost 5 times the 40-year average. Just over 16,700 pink salmon were harvested in Port Dick, down considerably from the 306,000 fish harvested in 2000, but still the highest odd-year harvest since 1993. Of the 24 pink salmon streams that were monitored for escapement in LCI for 2001, 14 achieved their desired escapement goal compared to only 4 streams in 1999. Of the ten streams that failed to achieve their respective escapement goals, five were located in the Eastern District.

DISCUSSION

Sockeye salmon mean lengths and weights within a brood year are expected to increase with increasing ocean age. For example, age-1.1, 1.2, and 1.3 Aialik Lake male sockeye salmon from the 1980 brood year had mean lengths progressing from 355 mm to 515 mm to 569 mm (Appendix C). Whenever this trend was not observed, data were examined for keypunch errors,

and scales were re-examined for aging errors. Some apparent size trend discrepancies can result from sampling inadequacies. For instance, the mean weight of male age-2.2 sockeye salmon from Kirschner Lake was 2.45 kg, while age-2.3 sockeyes weighed 0.25 kg less (2.20 kg) despite another full year at sea (Table 10). This apparent discrepancy was probably not due to aging or keypunch errors. It was more likely related to both samples consisting of just one fish each, which, by itself did not provide a representative sample for either age group.

Occasional anomalies occurred in the freshwater residency period for some stocks. For example, age-1. fish have dominated Aialik Bay returns since catch sampling began there in 1983. However, 52.9% and 65.5% of juvenile sockeye remained in Aialik Lake a second year and smolted as age-2. fish in 1990 and 1991, respectively. East Nuka Bay returns experienced similar occurrences in 1988 and 1994. Inter-annual variation in age compositions is relatively common within sockeye salmon stocks Burgner (1991), however, casual mechanisms are not fully understood. While size may not be the sole determinant for smoltification, Weatherly and Gill (1995), report that growth is an important component influencing the duration of freshwater residence of sockeye salmon. Burgner (1991) lists several factors which may influence the freshwater growth of sockeye salmon, including: abundance and availability of food, temperature conditions, length of growing season, intensity of available light, competition, disease, feeding behavior in relation to predators, and movements to favorable habitats for feeding and survival.

Variation can also occur in the ocean residency period for some salmon. Sockeye salmon typically spend from one to four years at sea, with 2-3 years being most common. Individual stocks can sometimes oscillate between 2-ocean and 3-ocean dominated returns, particularly those that are relatively evenly split between the two. The composition of sockeye salmon returning to Nuka Bay is a good example of this phenomenon. In the past 15 years, 2-ocean fish have dominated the return four times and 3-ocean fish have dominated the return 11 times. In 2001, age 1.3 sockeyes comprised 86.6% of the return- the single highest age percentage ever recorded for Nuka Bay returns.

While the overall sex ratio of returning adult salmon is typically even, males generally dominate the early portion of a run and females the latter, particularly for chum and pink salmon. Thus, the date samples are collected relative to the timing of the spawning run can influence the observed sex ratio of the sample. This temporal bias probably caused the skewed sex ratio observed in the commercial catch sampled from Kirschner Lake in late July 2001 (60.7% females; Table 10). Because temporal biases occur and size-at-age differences exist between male and female sockeye salmon (Burgner 1991), sampling dates are reported and age-weight-length data are stratified by sex in the appendices.

Escapement indices reported herein are primarily based on area-under-the-curve estimates that incorporate a 17.5 day stream life. This stream-life estimate has been used for Lower Cook Inlet pink salmon for almost 30 years (Davis and Valentine 1970). While stream life is recognized as a dynamic parameter, often varying by sex, segment of the run, and year, recent pink salmon stream-life work conducted in Prince William Sound suggests 17.5 days may be outside the commonly observed range of values (Bue et al. 1998). Until stream-life studies are conducted to confirm these data for Lower Cook Inlet streams, we are reluctant to modify our escapement indices. Nonetheless, readers should be aware that the historical escapement indices presented in

this document could change in the future when a more appropriate stream-life estimate is adopted for Lower Cook Inlet pink and chum salmon.

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Table 1. Survey methods and total escapement algorithms used for sockeye salmon streams in Lower Cook Inlet, 2001; NS denotes "not surveyed".

Stream	Survey Method	Total Escapement Algorithm
	Southern District	
English Bay	Weir	Sum of daily weir counts
	Outer District	
Desire Lake	Aerial	Peak live count
Delight Lake	Weir	Sum of daily weir counts
Delusion Lake	Aerial	Peak live count
	Eastern District	
Aialik Lake	Aerial	Peak live count
Salmon Creek	NS	Peak live count
Grouse Creek	NS	Peak live count
Bear Creek	Weir	Sum of daily weir counts
	Kamishak District	
Ursus Lagoon	NS	Peak live count
Bruin Lake Creek	NS	Peak live count
Bruin Bay	Aerial	Peak live count
Amakdedori Creek	Aerial	Peak live count
Chenik Lake	Aerial	Peak live count
Paint River[1]	Aerial	Peak live count
Mikfik Lake	Aerial	Peak live count
Big Kamishak River	Aerial	Peak live count
Douglas Reef	NS	Peak live count

[1] Fish are not able to reach freshwater due to barrier.

Table 2. Survey methods and total escapement algorithms used for chum salmon streams in Lower Cook Inlet, 2001; NS denotes "not surveyed" (page 1 of 2).

Stream	Survey Method	Total Escapement Algorithm	Start/stop dates Area-under-the-curve
		Southern District	
Humpy Creek	Ground	17.5 day stream life	7/1-8/30
Seldovia River	Ground	17.5 day stream life	7/1-9/20
Port Graham Left	Ground	17.5 day stream life	7/1-9/30
Port Graham River	Ground	17.5 day stream life	7/1-9/20
		Outer District	
Dogfish Bay	Ground	17.5 day stream life	7/1-9/15
Port Chatham	Ground	17.5 day stream life	7/1-9/15
Windy River Left	Ground	17.5 day stream life	7/1-9/15
Windy River Right	Ground	17.5 day stream life	7/1-9/15
Rocky River	Aerial	17.5 day stream life	7/1-9/15
Port Dick:			
Head End Creek	Ground	17.5 day stream life	7/1-9/20
Slide Creek	Ground	17.5 day stream life	7/1-9/30
Middle Creek	Aerial	17.5 day stream life	7/1-9/20
Island Creek	Ground	17.5 day stream life	7/1-9/30
Petrof River	Aerial	17.5 day stream life	7/1-9/15
Nuka Island, South Cr.	Ground	17.5 day stream life	7/1-9/15
James Lagoon	Aerial	17.5 day stream life	7/1-9/15
		Eastern District	
Tonsina Creek	Ground	17.5 day stream life	7/1-9/30
Tonsina Left Creek	NS	17.5 day stream life	
Salmon Creek	NS	17.5 day stream life	
Clear Creek	Ground	17.5 day stream life	7/1-9/15
Sawmill Creek	Ground	17.5 day stream life	7/1-9/30
Spring Creek	Ground	17.5 day stream life	7/1-9/30
		Kamishak Bay District	
Iniskin River	Aerial	17.5 day stream life	7/20-9/30
Sugarloaf Creek	Aerial	17.5 day stream life	7/20-9/30
North Head Creek	Aerial	17.5 day stream life	7/20-9/30
Cottonwood Creek	Aerial	17.5 day stream life	7/20-9/30
Browns Peak Creek	Aerial	17.5 day stream life	7/1-9/15
Ursus Lagoon, Rt. hand	Aerial	17.5 day stream life	7/15-9/30

Table 2. (page 2 of 2)

Stream	Survey Method	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
		Kamishak Bay District	
Ursus Lagoon Creek	Aerial	17.5 day stream life	7/15-9/30
Sunday Creek	Aerial	17.5 day stream life	7/1-9/15
Bruin Bay River	Aerial	17.5 day stream life	7/1-9/15
McNeil River[a]	Aerial	17.5 day stream life	6/20-9/15
Little Kamishak River	Aerial	17.5 day stream life	7/1-9/15
Strike Creek	Aerial	17.5 day stream life	7/1-9/15
Big Kamishak River	Aerial	17.5 day stream life	7/1-9/15
Douglas Reef	Aerial	17.5 day stream life	7/1-9/15
Douglas Beach	Aerial	17.5 day stream life	7/1-9/15

[a] McNeil River Chum salmon aerial survey counts are considered to be a conservative index of abundance. In some years, the estimated number of salmon consumed by bears in the McNeil River State Game Sanctuary has exceeded the peak aerial survey count.

Table 3. Survey methods and total escapement algorithms used for pink salmon streams in Lower Cook Inlet, 2001; NS denotes "not surveyed" (page 1 of 2).

Stream	Survey Method	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
		Southern District	
Humpy Creek	Ground	17.5 day stream life	7/5-9/30
China Poot Creek	Ground	17.5 day stream life	8/1-9/25
Tutka Creek	Ground	17.5 day stream life	7/15-/9/30
Seldovia River	Ground	17.5 day stream life	7/15-9/20
Barabara Creek	Ground	17.5 day stream life	7/15-9/30
Port Graham left	Ground	17.5 day stream life	7/15-9/30
Port Graham River	Ground	17.5 day stream life	7/15-9/30
		Outer District	
Dogfish Bay	Ground	17.5 day stream life	8/1-9/30
Port Chatham	Ground	17.5 day stream life	7/15-9/30
Chugach Bay	Aerial	17.5 day stream life	8/1-9/30
Windy River Left	Ground	17.5 day stream life	7/10-9/30
Windy River Right	Ground	17.5 day stream life	7/10-9/30
Scurvy Creek	Aerial	17.5 day stream life	7/15-9/30
Rocky River	Aerial	17.5 day stream life	7/1-9/15
Port Dick:			
Head End Creek	Ground	17.5 day stream life	7/2-9/30
Slide Creek	Ground	17.5 day stream life	7/15-9/30
Middle Creek	Aerial	17.5 day stream life	7/15-9/30
Island Creek	Ground	17.5 day stream life	7/15-9/30
Nuka Island, South Creek	Aerial	17.5 day stream life	7/15-9/15
Berger Bay	Aerial	17.5 day stream life	7/15-9/15
James Lagoon	Ground	17.5 day stream life	7/15-9/15
		Eastern District	
Humpy Cove	Ground	17.5 day stream life	8/1-9/30
Tonsina Creek	Ground	17.5 day stream life	7/15-9/30
Tonsina Left Creek	NS	17.5 day stream life	8/1-9/30
Salmon Creek	Ground	17.5 day stream life	7/15-9/30
Sawmill Creek	Ground	17.5 day stream life	7/15-9/30
Spring Creek	Ground	17.5 day stream life	8/1-9/30
Thumb Cove	Ground	17.5 day stream life	8/1-9/30

Table 3. (page 2 of 2)

Stream	Survey	Total Escapement Algorithm	Start/stop Dates Area-Under-Curve
		Kamishak Bay District	
Sugarloaf Creek	Aerial	17.5 day stream life	7/15-9/30
North Head Creek	Aerial	17.5 day stream life	7/15-9/30
Browns Peak Creek	Aerial	17.5 day stream life	7/15-9/30
Ursus Lagoon Right-hand	NS	17.5 day stream life	7/15-9/30
Ursus Lagoon	NS	17.5 day stream life	7/15-9/30
Sunday Creek	Aerial	17.5 day stream life	7/15-9/30
Bruin Bay River	Aerial	17.5 day stream life	7/15-9/30
Amakdedori Creek	Aerial	17.5 day stream life	7/15-9/30

Table 4. Commercial sockeye salmon catches (including hatchery cost recovery) and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2001 (page 1 of 2).

Subdistrict/System	Catch	Escapement[a]	Total Run
SOUTHERN DISTRICT			
Humpy Creek		37	37
Halibut Cove	5,800		5,800
China Poot Bay			
Common Property Fishery	43,676		
Hatchery Cost Recovery	21,479		
China Poot Creek		57[b]	
Total Run			65,212
Neptune Bay			
Common Property Fishery	46,973		
Hatchery Cost Recovery	5,558		
"Oxbow" Creek		150	
Total Run			52,681
Tutka/Kasitsna Bays	16,505[c]		16,505
Barabara Creek	6,455		6,455
Seldovia Bay	8,965	3	8,968
English Bay			
English Bay Lakes		10,508[d]	
Hatchery Broodstock		0[e]	
Total Run			10,508
SOUTHERN DISTRICT TOTAL	155,411	10,755	166,166
OUTER DISTRICT			
Port Dick	3		3
East Arm Nuka Bay (McCarty Fiord)	7,336		
Delight Lake		10,110	
Desire Lake		5,470	
Delusion Lake		2,840	
Total Run			25,756
OUTER DISTRICT TOTAL	7,339	18,420	25,759
EASTERN DISTRICT			
Aialik Bay & Aialik Lake		5,100	5,100
Resurrection Bay North			
Common Property Fishery	2,629		
Hatchery Harvest (sold)	3,837		
Hatchery Harvest (donated)	7,343		
Bear Lake Escapement		8,606[d]	
Hatchery Brood Stock		4,200[f]	
Clear Creek		4	
Total Run			26,619
EASTERN DISTRICT TOTAL	13,809	17,910	31,719

Table 4. (page 2 of 2)

Subdistrict/System	Catch	Escapement[a]	Total Run
KAMISHAK BAY DISTRICT			
Iniskin Bay/North Head Creek		40	40
Kirschner Lake			
Common Property Fishery	9,198		
Hatchery Cost Recovery	29,740		
Total Run			38,938
Bruin Bay/ Bruin Bay River		700	700
Chenik Lake			
Amakdedori Creek		2,690	
Chenik Creek/Lake		250	
Total Run			2,940
Paint River		75[g]	75
McNeil Cove/Mikfik Creek & Lake	275	5,350	5,625
Kamishak Bay/ Big Kamishak River		250	250
Douglas River/Silver Beach	499		499
KAMISHAK BAY DISTRICT TOTAL	39,712	9,355	49,067
TOTAL LOWER COOK INLET	216,271	56,440	272,711

[a] Escapement estimates derived from limited aerial surveys. Numbers represent unexpanded aerial live counts.
[b] No freshwater escapement, prevented by barrier falls.
[c] Commercial catch in Tutka Bay includes 5 sockeyes harvested incidentally during pink salmon hatchery cost recovery.
[d] Weir counts.
[e] No hatchery brood stock were collected at English Bay Lakes during 2001 because sockeyes in the lakes remained in deep water and capture was not possible.
[f] Brood stock total at Bear Lake includes 5 mortalities.
[g] No freshwater escapement, ladder not opened during 2001.

Table 5. Commercial chum salmon catches and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2001.

Subdistrict/System	Catch	Escapement[a]	Total Run
SOUTHERN DISTRICT			
Humpy Creek		690	690
Halibut Cove	43		43
China Poot Bay	61		61
Neptune Bay	209		209
Tutka Bay	1,366		1,366
Barabara Creek	636		636
Seldovia Bay & River	1,474	10,120	11,594
Port Graham			
Port Graham River		6,037	
Port Graham Left Creek		535	
Total Run			6,572
SOUTHERN DISTRICT TOTAL	3,789	17,382	21,171
OUTER DISTRICT			
Dogfish Bay		6,068	6,068
Port Chatham		971	971
Windy Bay	345		
Windy Right Creek		785	
Windy Left Creek		2,520	
Total Run			3650
Rocky Bay & River		2,990	2,990
Port Dick	57		
Port Dick (head end) Creek		1,801	
High Tech Creek		23	
Well Flagged Creek		69	
Slide Creek		798	
Middle Creek		1,165	
Island Creek		6,270	
Total Run			10,183
Nuka Island/Petrof River		185	185
East Arm Nuka Bay/James Lagoon	6	22	28
OUTER DISTRICT TOTAL	408	23,667	24,075
EASTERN DISTRICT			
Resurrection Bay North	6		
Clear Creek		117	
Sawmill Creek		345	
Spring Creek		748	
Thumb Cove		430	
Tonsina Creek		1,640	
EASTERN DISTRICT TOTAL	6	3,280	3,286

Table 5. (page 2 of 2).

Subdistrict/System	Catch	Escapement[a]	Total Run
Iniskin Bay			
Iniskin River		13,754	
Sugarloaf Creek		1,885	
North Head Creek		2,067	
Total Run			17,706
Cottonwood Bay & Creek		15,868	15,868
Ursus Cove			
Brown's Peak Creek		7,795	
Ursus Lagoon Right Creek		22,239	
Ursus Cove Lagoon Creek		15,460	
Ursus Head Creek		103	
Total Run			45,597
Rocky Cove/Sunday Creek	1,485	9,125	10,610
Kirschner Lake	2		2
Bruin Bay & River		21,782	21,782
McNeil River	2	16,997	16,999
Kamishak River/Reef	72,978		
Big Kamishak River		36,341	
Little Kamishak River		27,184	
Strike Creek		5,169	
Total Run			141,672
Douglas River/Silver Beach	10,299		
Douglas Beach Creek		1,871	
Douglas Reef Creek		914	
Total Run			13,084
KAMISHAK BAY DISTRICT TOTAL	84,766	198,554	283,320
TOTAL LOWER COOK INLET	88,969	242,883	331,852

[a] Escapement estimates are derived from periodic ground or aerial surveys with stream life factors applied.

Table 6. Commercial pink salmon catches (including hatchery cost recovery) and escapements in numbers of fish by subdistrict, Lower Cook Inlet, 2001 (page 1 of 2).

Subdistrict/System	Catch	Escapement[a]	Total Run
SOUTHERN DISTRICT			
Humpy Creek		30,463	30,463
Halibut Cove	232		232
China Poot Bay/Creek	2,091	6,639	8,730
Neptune Bay	2,671		2,671
Tutka/Kasitsna Bays			
Common Property Fishery	109,682		
Hatchery Cost Recovery	421,408		
Hatchery Brood Stock		179,006	
Tutka Lagoon Creek		4,451	
Total Run			714,547
Barabara Creek	2,006	2,287	4,293
Seldovia Bay & River	4,885	12,259	17,144
Port Graham			
Port Graham River		10,260	
Port Graham Left Creek		3,587	
Hatchery Brood Stock		19,145	
Total Run			29,405
SOUTHERN DISTRICT TOTAL	542,975	268,097	811,072
OUTER DISTRICT			
Dogfish Bay		1,980	1,980
Port Chatham		17,921	17,921
Chugach Bay		3,724	3,724
Windy Bay	9,429		
Windy Right Creek		10,300	
Windy Left Creek		61,813	
Total Run			81,542
Rocky Bay			
Scurvy Creek		840	
Rocky River		72,951	
Total Run			73,791
Port Dick	16,758		
Port Dick (head end) Creek		43,568	
High Tech Creek		640	
Well Flagged Creek		484	
Slide Creek		30,978	
Middle Creek		2,506	
Island Creek		81,764	
Total Run			176,698

Table 6. (page 2 of 2).

Subdistrict/System	Catch	Escapement[a]	Total Run
OUTER DISTRICT (cont'd)			
Taylor Bay		440	440
Nuka Island			
South Nuka Island Creek		20,654	
Berger Bay		354	
Mike's Bay		6,234	
Herring Pete Bay		886	
Total Run			28,128
East Arm Nuka Bay (McCarty Fiord)	22,372		
Delight Lake		7,310	
Desire Lake		67,480	
James Lagoon		2,860	
Total Run			100,022
OUTER DISTRICT TOTAL	48,559	435,687	484,246
EASTERN DISTRICT			
Resurrection Bay North			
Bear/Salmon Creeks		3,025	
Clear Creek		263	
Sawmill Creek		52	
Spring Creek		149	
Tonsina Creek		2,780	
Humpy Cove		330	
Thumb Cove (Likes Creek)		3,121	
Total Run			9,720
EASTERN DISTRICT TOTAL	0	9,720	9,720
KAMISHAK BAY DISTRICT			
Iniskin Bay			
North Head Creek		2,423	
Sugarloaf Creek		500	
Total Run			2,923
Ursus Cove/Brown's Peak Creek		19,166	19,166
Rocky Cove/Sunday Creek	98	26,231	26,329
Kirschner Lake	1,266[b]		1,266
Bruin Bay/Bruin Bay River		18,522	18,522
Douglas Reef/Silver Beach	33		33
KAMISHAK BAY DISTRICT TOTAL	1,397	66,842	68,239
TOTAL LOWER COOK INLET	592,931	780,346	1,373,277

[a] Escapement estimates are derived from periodic ground or aerial surveys with stream life factors applied.
[b] Kirschner Lake pinks were all taken during hatchery sockeye cost recovery harvests.

Table 7. Number of readable scales and corresponding confidence levels for age composition estimates from Lower Cook Inlet sockeye and chum salmon samples, 2001.

Fishery	Dates	Sample Size	Type	Confidence interval (d=0.05)[a]
		Sockeye Salmon		
Bear Lake	27 May-12 July	390	Scale	0.936
China Poot	7, 9 & 12 July	561	Scale	0.996
Delight Lake	1-31 July	446	Scale	0.996
Neptune Bay	10 & 17 July	511	Scale	0.985
Kirschner Lake	17 & 25 July	491	Scale	0.954
Total Sockeye Scales		2,399		
		Chum Salmon		
Douglas River	19 and 25 July	625	Scale	1.000
	Total Scales	3,024		

[a] Simultaneous confidence interval for multiple age classes (Thompson 1987)

Table 8 . Age, sex and size composition of sockeye salmon commercial catch from China Poot Bay, 7, 9, and 12 July 2001.

	Age Composition by Brood Year							
	1.1	1.2	1.3	1.4	2.1	2.2	2.3	Total
Sample Period: July 7,9,12, 2001			Sample ID: 01CHINRC					
Males								
Percent	0.2%	45.1%	5.2%	0.2%		4.6%	0.2%	55.4%
Mean Length (cm)	398	504	551	612		527	557	511
Std. Error	NA	1	3	NA		3	NA	1
Sample Size	1	253	29	1		26	1	311
Mean Weight (kg)		2.02	2.77			2.05		2.08
Std. Error		0.04	0.23			0.20		0.05
Sample Size		33	3			2		38
Females								
Percent	0.4%	34.4%	7.7%		0.2%	2.0%		44.6%
Mean Length (cm)	398	506	534		391	518		510
Std. Error	23	2	12		NA	10		3
Sample Size	2	193	43		1	11		250
Mean Weight (kg)		2.00	2.50			2.30		2.08
Std. Error		0.08	0.00			NA		0.08
Sample Size		13	2			1		16
Both Sexes								
Percent	0.5%	79.5%	12.8%	0.2%	0.2%	6.6%	0.2%	100.0%
Mean Length (cm)	398	505	541	612	391	524	557	510
Std. Error	13	1	8	NA	NA	3	NA	1
Sample Size	3	446	72	1	1	37	1	561
Mean Weight (kg)		2.01	2.66			2.13		2.08
Std. Error		0.04	0.14			0.14		0.04
Sample Size		46	5			3		54

Table 9. Age, sex and size composition of sockeye salmon commercial catch from Neptune Bay, July 10, 17, 2001.

	Age Composition by Brood Year					
	1.1	1.2	1.3	2.1	2.2	Total
Sample Period: July 10, 17, 2001			Sample ID: 01NEPTRC			
Males						
Percent	0.2%	44.4%	10.2%	0.8%	3.1%	58.7%
Mean Length (cm)	381	481	539	395	511	491
Std. Error	NA	1	3	11	6	2
Sample Size	1	227	52	4	16	300
Mean Weight (kg)		1.74	2.63		1.95	1.97
Std. Error		0.07	0.20		0.12	0.09
Sample Size		17	6		4	27
Females						
Percent	0.0%	29.9%	9.0%	0.2%	2.2%	41.3%
Mean Length (cm)		480	542	330	500	494
Std. Error		2	3	NA	6	2
Sample Size		153	46	1	11	211
Mean Weight (kg)		1.63	2.50		1.70	1.77
Std. Error		0.08	0.15		0.20	0.09
Sample Size		15	3		2	20
Both Sexes						
Percent	0.2%	74.4%	19.2%	1.0%	5.3%	100.0%
Mean Length (cm)	381	480	540	382	506	492
Std. Error	NA	1	2	15	4	1
Sample Size	1	380	98	5	27	511
Mean Weight (kg)		1.69	2.59		1.87	1.88
Std. Error		0.05	0.14		0.11	0.07
Sample Size		32	9		6	47

Table 10. Age, sex and size composition of sockeye salmon commercial catch from Kirschner Lake, 17-25 July, 2001.

	Age Composition by Brood Year					
	1.1	1.2	1.3	2.2	2.3	Total
Sample Period: July 17, 25, 2001			Sample ID: 01KIRSRC			
Males						
Percent	0.2%	25.1%	12.0%	1.8%	0.2%	39.3%
Mean Length (cm)	387	479	546	497	484	500
Std. Error	NA	2	3	7	NA	3
Sample Size	1	123	59	9	1	193
Mean Weight (kg)		1.69	2.43	2.45	2.20	2.05
Std. Error		0.07	0.09	NA	NA	0.11
Sample Size		7	5	1	1	14
Females						
Percent		33.6%	25.1%	1.8%	0.2%	60.7%
Mean Length (cm)		482	546	502	542	510
Std. Error		1	2	5	NA	2
Sample Size		165	123	9	1	298
Mean Weight (kg)		1.58	2.31	1.30	0.00	1.88
Std. Error		0.05	0.08	NA	NA	0.08
Sample Size		15	12	1	0	28
Both Sexes						
Percent	0.2%	58.7%	37.1%	3.7%	0.4%	100.0%
Mean Length (cm)	387	481	546	499	513	506
Std. Error	NA	1	1	4	29	2
Sample Size	1	288	182	18	2	491
Mean Weight (kg)		1.62	2.34	1.88	2.20	1.94
Std. Error		0.04	0.06	0.58	NA	0.07
Sample Size		22	17	2	1	42

Table 11. Age, sex, and size composition of sockeye salmon escapement from Delight Lake, July 2001.

	Age Composition by Brood Year				
	1.2	1.3	2.2	2.3	Total
Sample Period: 1-31 July 2001			Sample ID: 01DELIR1		
Males					
Percent	4.7%	50.4%	0.4%	0.4%	56.1%
Mean Length (cm)	517	592	548	605	585
Std. Error	4	2	3	25	2
Sample Size	21	225	2	2	250
Mean Weight (kg)					
Std. Error		No weights were taken			
Sample Size					
Females					
Percent	8.1%	35.9%			43.9%
Mean Length (cm)	508	565			554
Std. Error	4	2			2
Sample Size	36	160			196
Mean Weight (kg)					
Std. Error		No weights were taken			
Sample Size					
Both Sexes					
Percent	12.8%	86.3%	0.4%	0.4%	100.0%
Mean Length (cm)	511	580	548	605	572
Std. Error	3	1	3	25	2
Sample Size	57	385	2	2	446
Mean Weight (kg)					
Std. Error		No weights were taken			
Sample Size					

Table 12. Age, sex, and size composition of chum salmon commercial catch from Kamishak River Subdistrict, 2001.

	Age Composition by Brood Year			
	0.3	0.4	0.5	Total
Sample Period: 19, 25 July 2001			Sample ID: 01KAMICC	
Males				
Percent	1.0%	46.1%	1.0%	48.0%
Mean Length (cm)	592	658	689	658
Std. Error	16	2	13	2
Sample Size	6	288	6	300
Mean Weight (kg)	2.90	4.81	5.50	4.68
Std. Error	0.40	0.14	NA	0.17
Sample Size	2	21	1	24
Females				
Percent	2.7%	48.3%	1.0%	52.0%
Mean Length (cm)	597	632	643	630
Std. Error	5	1	15	1
Sample Size	17	302	6	325
Mean Weight (kg)	3.50	3.88	0.00	3.87
Std. Error	NA	0.11	NA	0.11
Sample Size	1	33	0	34
Both Sexes				
Percent	3.7%	94.4%	1.9%	100.0%
Mean Length (cm)	596	645	666	643
Std. Error	5	1	12	1
Sample Size	23	590	12	625
Mean Weight (kg)	3.10	4.24	5.50	4.21
Std. Error	0.31	0.10	NA	0.11
Sample Size	3	54	1	58

Table 13. Age, sex, and size composition of sockeye salmon escapement from Bear Lake, 31 May-1 August, 2001.

	Age Composition by Brood Year				
	1.2	1.3	2.2	2.3	Total
Sample Period: 31 May-1 Aug			Sample ID: 01BEARRC		
Males					
Percent	19.2%	35.4%	2.5%	2.3%	59.4%
Mean Length (cm)	496	566	529	577	543
Std. Error	3	2	10	6	3
Sample Size	100	185	13	12	310
Mean Weight (kg)	2.00	2.78	2.18	3.11	2.51
Std. Error	0.04	0.04	0.10	0.26	0.03
Sample Size	100	185	13	12	310
Females					
Percent	12.1%	24.3%	2.1%	2.1%	40.6%
Mean Length (cm)	499	551	547	542	535
Std. Error	3	3	7	10	2
Sample Size	63	127	11	11	212
Mean Weight (kg)	1.89	2.57	2.28	2.29	2.34
Std. Error	0.04	0.04	0.09	0.14	0.04
Sample Size	63	127	11	11	212
Both Sexes					
Percent	31.2%	59.8%	4.6%	4.4%	100.0%
Mean Length (cm)	497	560	538	560	540
Std. Error	2	2	6	7	2
Sample Size	163	312	24	23	522
Mean Weight (kg)	1.96	2.69	2.23	2.72	2.44
Std. Error	0.03	0.03	0.07	0.17	0.03
Sample Size	163	312	24	23	522

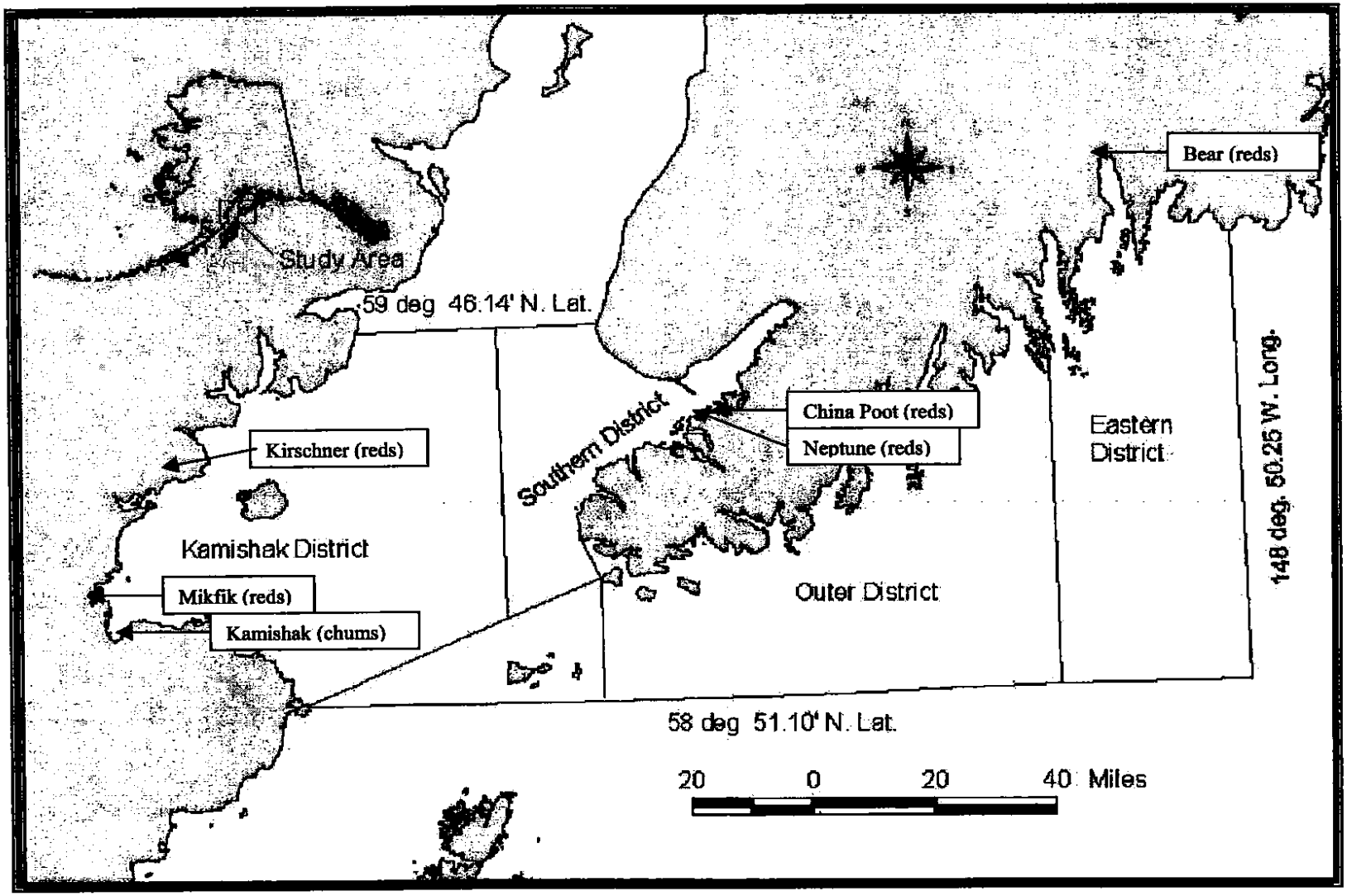

Figure 1. Lower Cook Inlet salmon management districts and locations of six stocks sampled for age, sex, and size data in 2001.

APPENDIX

Appendix A.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the China Poot subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood	AGE GROUP																									
Year	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n
Male mean length (mm) by brood year																														
1977				489	12	25	----						436	11	2	-----			580	35	2									
1978				-----			542	NA	1				-----			507	20	2	565	NA	1									
1979	----			514	1	247	526	14	9	568	NA	1				513														
1980	422	30	5	494	1	258	539	3	34							497	3	45				----						-----		
1981				481	2	80	504	15	5	-----									----						----					
1982				498	10	7	-----									-----			546	4	21									
1983				-----			534	7	19				-----			510	1	256	558	9	8									
1984	-----			498	2	204	560	5	35				379	12	20	513	2	70	530	NA	1							437	22	2
1985	351	4	20	489	1	439	554	5	27				407	NA	1	479	4	43	554	15	4									
1986	366	7	4	474	2	110	524	12	22				352	5	3	c	2	171	541	9	3									
1987	361	4	8	478	2	259	546	5	9				359	7	7	493	2	117												
1988				484	2	125	541						398	11	5	518			503	NA	1									
1989	383	3	12	495			523	3	32				394			483	6	11												
1990				465	1	150	520	4	19							497	9	4												
1991				478	1	128							403	4	3															
1992	391	3	21				540	3	46							509	6	9												
1993	394	6	25	492	1	210	525	8	11							489	11	8												
1994	407	19	8	484	1	220	530	7	17	522	8	8	394	10	4	488	12	9	556	NA	1									
1995	370	3	15	479	1	129	559	5	23	612	NA	1				522	7	8	557	NA	1									
1996	498	2	29	499	2	29	551	3	29							527	3	26												
1997				504	1	253																								
1998	398	NA	1																											
1999																														
Female mean length (mm) by brood year																														
1977				511	4	36				-----									----						----					
1978				490	7	51	----						512	22	2	-----			569	NA	1									
1979				-----			573	29	2	511	NA	1	----			525	10	2												
1980	----			513	1	296	549	9	3							501	6	19	547	13	3									
1981				494	2	186	539	5	27							493	3	35				----						----		
1982				482	2	78				-----						496	NA	1	----						----					
1983				493	32	3	----			632	NA	1				-----			525	15	8									
1984				----			551	4	23				-----			507	1	217	562	10	6									
1985	-----			494	1	197	565	5	23				441	56	2	517	4	41	574	NA	1							486	NA	1
1986	340	NA	1	488	1	319	546	6	19							473	2	66	550	23	4									
1987				472	2	163	533	7	25							478	2	151	538	NA	1									
1988				477	2	193	524	9	8							491	2	112												
1989				485	2	103	539									521			513	NA	1									
1990				495			521	2	40	492	NA	1				472	4	15												
1991				464	2	79	528	4	46				384	2	2	466	8	4												
1992				490	1	277	547	2	55				387	NA	1	495	7	4	517	NA	1									
1993				492	1	183	535	11	6				514	NA	1	496	6	13												
1994	386	NA	1	483	1	275	530	3	27	522	7	12				500	7	12												
1995				480	1	219	552	4	36							582	NA	1												
1996				497	2	60	534	12	43							518	10	11												
1997	406	NA	1	506	2	193							391	NA	1															
1998	398	23	2																											
1999																														

Appendix A.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the China Poot subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood	AGE GROUP																								
Year	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n
	Male mean weight (kg) by brood year																												
1975							2.20	NA	1													----			----				
1976				2.17	0.06	26	2.61	NA	1	----									----										
1977				2.17	0.14	18	-----						1.14	NA	1	-----			2.95	0.55	2								
1978				-----			2.65	NA	1				----			2.03	0.13	2	2.90	NA	1								
1979	-----			2.14	0.02	193	2.66	0.12	8	3.85	NA	1				2.26	0.11	7											
1980	0.94	0.07	5	2.02	0.02	178	2.91	0.05	23							2.43	0.04	24				----			----				
1981				2.26	0.03	40	2.14	0.21	5	----									----										
1982				1.96	0.12	7	-----									----			2.83	0.03	2								
1983				-----			2.70	NA	1				----			2.45	0.18	11											
1984	-----			2.38	0.23	20	3.63	NA	2				1.80	0.07	4	2.00	0.1	2											
1985	0.70	0.06	3	1.83	0.06	22	2.83	0.59	5							1.70	0.23	3	2.10	NA	1								
1986	0.50	NA	1	1.54	0.06	11	2.46	0.15	3							1.80	0.09	23											
1987	0.70	NA	2	1.69	0.05	23	2.40	NA	2				0.50	NA	1	1.81	0.03	25											
1988				1.79	0.06	19										2.17													
1989	0.82	0.03	2	1.57			1.63	0.21	5							1.16	NA	1											
1990				1.23	0.06	17																							
1991				1.70	0.06	12																							
1992	0.99	0.04	2				2.36	0.15	6							2.37	0.06	2											
1993	0.87	0.12	3	1.94	0.06	15	2.09	NA	1				1.92	NA	1	1.84	NA	1											
1994				1.87	0.08	15	1.95	0.25	2	1.95	0.06	2				1.55	NA	1											
1995	0.86	NA	1	1.80	0.04	17	2.42	0.04	2																				
1996				1.64	0.07	5	2.77	0.23	3							2.05	0.2	2											
1997				2.02	0.04	33																							
1998																													
	Female mean weight (kg) by brood year																												
1975							2.40	0.40	2							1.95	0.15	2				----			----				
1976				2.00	0.06	31				-----									-----										
1977				1.98	0.11	24	-----									-----			2.70	NA	1								
1978				-----			2.85	0.55	2	2.50	NA	1	----			2.03	0.18	2											
1979	-----			1.98	0.02	231	2.80	0.15	3							1.97	0.09	14	2.88	0.08	3								
1980				1.90	0.03	118	2.91	0.08	16							2.26	0.06	26				----			----				
1981				2.11	0.02	32				-----						1.70	NA	1	-----						----				
1982				1.80	0.46	3	----									-----			2.20	NA	2								
1983				-----									----			2.07	0.12	22											
1984	-----			1.77	0.06	13										2.75	NA	1	2.60	NA	1								
1985				1.76	0.05	8										1.51	0.06	6											
1986				1.49	0.05	17	2.10	0.30	2							1.63	0.09	16											
1987				1.57	0.04	22	2.10	0.09	3							1.72	0.03	15											
1988				1.67	0.05	16	2.51																						
1989				1.54			1.66	0.16	7							1.25	0.11	2											
1990				1.15	0.07	11	2.13	0.21	5							1.33	0.11	2											
1991				1.65	0.03	33							0.77		1														
1992							2.41	0.14	4							2.14	NA	1											
1993				1.85	0.04	20							1.92	NA	1	1.69	0.10	3											
1994	1.02	NA	1	1.72	0.03	29				1.71	0.17	3				2.00	NA	1											
1995				1.67	0.06	18	2.04	0.07	6							1.71	0.17	3											
1996				1.73	0.05	6	2.50	0.00	2							2.30	NA	1											
1997				2.00	0.08	13																							
1998																													

Appendix A.3. Estimated sockeye salmon harvest by sex, brood year, and age group, China Poot subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood Year	AGE GROUP												
	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year													
1975					152					—		—	
1976				5,620	136	—			—		—		
1977		—		3,394	—		272	—	266				
1978	—			—	133		—	266	216				
1979			—	32,845	1,941	190		1,509					—
1980			655	55,632	6,444			8,528		—		—	
1981				15,161	4,781	—			—		—		
1982		—		6,694	—			—	1,406				
1983	—			—	1,326		—	17,249	307				
1984			—	12,862	1,324		1,174	2,592	68			384	
1985			1,126	16,595	1,823		35	2,904	322				
1986			153	7,429	2,141		203	16,172	386				
1987			540	25,628	1,157		452	15,044					
1988				16,073	2,295		643	2,868	88				
1989			1,543	19,789	2,821		287	970					
1990			287	13,225	3,147			662					
1991				21,200			497						
1992			3,478										
1993			5,452	17,665	1,609			1,126					
1994			651	32,099	4,239	1,798	563	2,119	225				
1995			2,172	33,909	5,168	116			116				
1996				6,516	3,368			3,020					
1997				29,384									
1998			116										
Female harvest (number of fish) by brood year													
1975					456			304		—		—	
1976				5,468		—			—		—		
1977		—		6,926	—		272	—	133				
1978	—			—	266	216	—	266					
1979			—	39,360	647			4,097	569				—
1980				40,106	5,117			6,633		—		—	
1981				14,783		—		956	—		—		
1982		—		2,869	—	56		—	514				
1983	—			—	1,567		—	14,203	229				
1984			—	11,876	915		113	1,567	68			192	
1985			56	12,078	1,283			4,457	619				
1986				11,008	3,015			17,386	129				
1987				22,622	1,029			14,400					
1988				13,244	2,008			2,008	88				
1989				38,146	3,527	166		1,322					
1990				6,966	7,619		176	662					
1991				54,656			166						
1992									161				
1993				15,364	885			1,931					
1994			87	39,902	7,418	2,696		3,179					
1995				55,102	8,089			225					
1996				13,482	4,994			1,278					
1997			225	22,415			116						
1998			232										

Appendix A.4. Estimated age composition by harvest year for sockeye salmon harvested in the China Poot subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

	AGE GROUP																			
Year	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n	2.4	n	3.1	n	3.2	n	3.3	n
Male age composition by harvest year																						
1980			46.8	37	1.3	1																
1981			30.9	25	1.2	1			2.5	2												
1982	---		---		---		---		---		---		---		---		---		---		---	
1983	0.9	5	44.3	247	0.2	1					0.4	2	0.4	2								
1984			53.3	258	1.9	9					1.5	7	0.2	1								
1985			26.4	80	11.2	34	0.3	1			14.9	45										
1986			43.8	7	31.3	5																
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	1.8	20	20.3	204	2.1	19			1.9	20	27.2	256	2.2	21								
1989	0.4	4	46.4	439	3.7	35			0.1	1	7.2	70	0.9	8								
1990	1.8	8	24.9	110	6.1	27			0.7	3	9.8	43	0.2	1								
1991			28.8	259	2.4	22			0.5	7	18.2	171	0.4	4					0.4	2		
1992	2.4	12	25.3	125	1.8	9			1.0	5	23.6	117	0.6	3								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			45.3	150	9.7	32					3.3	11	0.3	1								
1995	3.8	21	23.0	128	3.4	19			0.5	3	0.7	4										
1996	4.5	25	39.5	222	3.0	17					0.3	2										
1997	1.5	8	40.7	210	8.9	46					1.7	9										
1998	2.7	15	39.9	220	2.0	11			0.7	4	1.4	8										
1999			32.0	129	4.0	17					2.0	9										
2000			17.0	29	13.5	23	4.7	8					0.6	1								
2001	0.2	1	45.1	253	5.2	29	0.2	1			4.6	26	0.2	1								
Female age composition by harvest year																						
1980																						
1981			63.0	51					2.5	2												
1982	---		---		---		---		---		---		---		---		---		---		---	
1983			53.1	296	0.4	2					0.4	2	0.2	1								
1984			38.4	186	0.6	3	0.2	1			3.9	19										
1985			25.7	78	8.9	27					11.6	35	1.0	3								
1986			18.8	3							6.3	1										
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	0.1	1	18.7	197	2.5	23	0.1	1	0.2	2	22.4	217	0.8	8								
1989			33.7	319	2.6	23					4.4	41	0.6	6								
1990			37.0	163	4.3	19					15.0	66	0.2	1								
1991			25.4	193	3.4	25					19.6	151	0.7	4					0.2	1		
1992			20.8	103	1.6	8					22.6	112	0.2	1								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			23.9	79	12.1	40			0.6	2	4.5	15	0.3	1								
1995			59.3	330	8.3	46	0.2	1	0.2	1	0.7	4										
1996			49.4	277	3.1	18					0.2	1										
1997	0.2	1	35.4	183	10.6	55			0.2	1	0.8	4										
1998			49.6	275	1.1	6					2.4	13	0.2	1								
1999			52.0	219	7.0	27					3.0	12										
2000	0.6	1	35.1	60	21.1	36	7.0	12			0.6	1										
2001	0.4	2	34.4	193	7.7	43			0.2	1	2.0	11										
Both sexes																						
1981																						
1982	---		---		---		---		---		---		---		---		---		---		---	
1983																						
1984			91.7	444	2.5	12	0.2	1			5.4	26	0.2	1								
1985			52.1	158	20.1	61	0.3	1			26.4	80	1.0	3								
1986			62.5	10	31.3	5					6.3	1										
1987	---		---		---		---		---		---		---		---		---		---		---	
1988	1.9	21	38.9	401	4.6	42	0.1	1	2.0	22	49.5	473	3.0	29								
1989	0.4	4	80.1	758	6.3	58			0.1	1	11.6	111	1.5	14								
1990	1.8	8	61.9	273	10.4	46			0.7	3	24.7	109	0.5	2								
1991			54.3	452	5.8	47			0.5	7	37.7	322	1.1	8					0.7	3		
1992	2.4	12	46.1	228	3.4	17			1.0	5	46.3	229	0.8	4								
1993	---		---		---		---		---		---		---		---		---		---		---	
1994			69.2	229	21.8	72			0.6	2	7.9	26	0.6	2								
1995	3.8	21	82.2	458	11.7	65	0.2	1	0.7	4	1.4	8										
1996	4.5	25	89.0	499	6.1	35					0.5	3										
1997	1.7	9	76.1	393	19.5	101			0.2	1	2.5	13										
1998	2.7	15	89.5	495	3.1	17			0.7	4	3.8	21	0.2	1								
1999			84.0	348	11.0	44					5.0	21										
2000	0.6	1	52.0	89	34.5	59	11.7	20			0.6	1	0.6	1								
2001	0.5	3	79.5	446	12.8	72	0.2	1	0.2	1	6.6	37	0.2	1								

Appendix B.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Nuka Bay subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood	AGE GROUP																																					
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	3.3	SE	n
Male mean length (mm) by brood year																																								
1971																											613	3	59						550	4	2			
1972																606	3	56							546	26	5														
1973																																								
1974																																								
1975																																								
1976																																								
1977																											589	8	3										534	NA	1
1978																577	3	51	569	9	2				526	3	23	582	6	19								-----		
1979				546	8	3							512	3	35	573	4	59							511	9	8	573	4	13	—					—			—		
1980	512	NA	1										506	2	154	571	2	144	-----						508	5	14	-----			—			—			—			570		
1981							—						500	5	18	-----			-----						-----			-----						—							
1982				—			-----						-----			-----						—			-----			582	3	71										
1983	-----			—						—			-----			573	3	40				-----			537	5	20	594	8	15									581	4	2
1984	-----									—			507	5	10	579	3	83							543	13	3	572	4	43						538	NA	1	-----		
1985				617	NA	1							518	4	45	576	2	229							503	2	76	574	3	58	—					-----					
1986	530	NA	1	585	18	3							497	3	65	579	3	96	—						516	6	22	-----						—							
1987							—						504	6	15	-----									-----			568													
1988				-----									-----			567						-----			520			568	7	16										
1989	-----			579						-----			515			582	2	86							505	2	48	578	NA	1										
1990													500	2	58	580	1	202				350	7	2	548	NA	1													
1991													524	2	116	585[a]	3	71										588[c]	6	19										
1992													531[b]	2	94	580[c]	2	210							510[c]	10	13	569[a]	8	5										
1993													526[c]	5	66	566[a]	2	146							513[a]	8	11	578	6	4										
1994													494[a]	3	47	567	2	124							528	4	15	585	17	4										
1995													506[a]	1	108	586	2	193							522	8	11	605	25	2										
1996													501	5	19	592	2	225							548	3	2													
1997													517	4	21																									
1998																																								
Female mean length (mm) by brood year																																								
1971																																								
1972																																								
1973				574	12	2							524	14	8																									
1974										350	NA	1																												
1975																																								
1976																																								
1977																			592	NA	1							572	3	3	554	3	2						547	NA	1
1978																560	2	70	544	3	2				504	5	23	530	9	10								-----		
1979				562	19	3							500	3	48	549	2	82				340	NA	1	485	6	17	539	5	22	-----						-----			
1980				549	NA	1							490	2	159	549	2	160	-----						498	6	29	-----			-----			—			—		565	NA	1
1981				547	NA	1	-----						487	5	36	—			-----						-----			-----						—							
1982				—			-----						-----			-----						—			-----			559	3	66										
1983	-----			-----						—			-----			558	3	55				-----			508	4	36	565	5	28									551	9	4
1984	-----									-----			500	5	24	557	2	88	549	NA	1	325	NA	1	511	9	9	550	3	56						517	NA	1	-----		
1985				502	NA	1							504	3	56	549	1	296	585	NA	1				481	2	87	553	3	75	-----					-----					
1986	512	NA	1	553	8	6							482	3	93	555	3	133	-----						495	4	38	-----						—							
1987							-----						491	4	30	-----									-----			551													
1988				-----									-----			556						-----			504			560	6	18							473	NA	1			
1989	-----									-----			491			556	1	86	604	NA	1				493	2	79	570	0	3										
1990	488												492	1	90	556	1	287							530	26	3													
1991													505	1	176	558[a]	3	79	560[c]	30	2							546[c]	5	20									545[a]	NA	1
1992													508[a]	2	131	550[c]	1	210							488[d]	5	16	535[a]	7	15										
1993													509[c]	3	105	536[a]	1	126							495[a]	5	22	554	9	5										
1994										485[c]	NA	1	485[a]	2	118	552	2	69							493	8	13	554	6	8										
1995													493[a]	1	115	561	1	222							511	10	10													
1996													497	4	25	565	2	160																						
1997													508	4	36																									
1998																																								

[a] Delight Lake escapement, [b] Desire Lake escapement, [c] Delight and Desire escapement

Appendix B.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Nuka Bay subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood	AGE GROUP																																						
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	3.3	SE	n
Male mean weight (kg) by brood year																																								
1977																												3.37	0.15	3										
1978																3.14	0.06	51	3.1	0.1	2				2.35	0.05	23	3.16	0.15	10											
1979				2.9	0.5	3							2.18	0.05	35	3.23	0.10	29							2.1	0.05	2	3.13	0.12	10	—					—			—		
1980	2.6	NA	1										2.18	0.05	54	3.12	0.04	94	—						2.27	0.12	6	—			—			—			—			—		
1981							—						2.16	0.08	9	—			—						—			—						—								
1982				—			—						—			—						—			—			3.55	0.25	6										
1983	—			—						—			—			3.53	0.10	3				—			2.33	0.47	2											2.5	NA	1	
1984	—									—			2.2	0.45	2	2.58	0.33	10										3.7	NA	2						2.1	NA	1	—		
1985													2.25	0.27	4	3.57	0.12	15							2.68	0.18	4	2.33	0.24	4	—					—					
1986	2.1	NA	1										2.34	0.12	8	2.35	0.16	14	—						1.76	0.04	5	—						—								
1987							—						1.61	0.27	2	—									—			2.72														
1988				—									—			2.76						—			1.85			2.84	NA	1											
1989	—									—			2.07			3.07	0.19	8							1.8	0.05	10														
1990													1.78	0.10	7	3.21	0.08	22				0.6	0	2																	
1991													2.35	0.07	15	3.24a	0.27	7										2.68c	0.14	9	—										
1992													2.23a	0.06	12	3.12c	0.04	131	—						2.19c	0.18	7	—														
1993							—						2.37c	0.09	43	—									—																
1994				—									—									—						3.4	0.3	4	—										
1995																3.46	0.03	193	—						2.35	0.11	11	—						—							
1996							—						2.11	0.06	19	—									—									—								
1997				—									—									—																				
1998	—									—																																
Female mean weight (kg) by brood year																																								
1977																			2.8	NA	1							2.62	0.05	3	2.2	NA	1							
1978																2.74	0.06	70							1.92	0.06	23	2.38	0.11	6											
1979				2.7	0.3	3							1.91	0.04	48	2.63	0.04	45				0.7	NA	1	1.93	0.15	6	2.66	0.12	10	—					—			—		
1980													1.84	0.03	54	2.65	0.03	95	—						1.94	0.08	16	—			—			—			—			—		
1981							—						1.88	0.06	21	—			—						—			—			2	NA	1	—							
1982				—			—						—			—						—			—			2.89	0.17	5										
1983	—			—						—			—			2.69	0.37	4				—			1.83	0.12	6	2.65	0.25	2									2.2	NA	1
1984	—									—			2.45	0.20	2	2.48	0.11	8										3.07	0.15	4									—		
1985													1.8	0.17	8	2.87	0.05	38							1.89	0.09	13	1.99	0.08	16	—					—					
1986													1.91	0.09	10	1.99	0.05	27	—						1.37	0.1	5	—						—								
1987							—						1.43	0.08	7	—									—			2.38														
1988				—									—			2.32						—			2.19																
1989	—									—			1.83			2.33	0.11	6							1.57	0.07	11														
1990													1.57	0.11	4	2.57	0.05	26																								
1991													2.14	0.07	18	2.71a	0.10	17										2.21c	0.14	9											
1992													2.02a	0.06	18	2.55c	0.04	139							1.56c	0.06	10															
1993							—						1.98c	0.05	75	—									—									—								
1994				—						1.40c	NA	1	—									—						2.78	0.1	8	—									—		
1995																2.88	0.02	222	—						2.02	0.11	10	—						—							
1996							—						1.93	0.04	25	—									—									—								
1997				—									—									—																				
1998	—									—																																

Appendix B.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Nuka Bay subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood Year	AGE GROUP													
	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
	Male harvest (number of fish) by brood year[1]													
1977														209
1978														----
1979										2,713	----		----	----
1980						30,057	----		2,922	----	----	----	----	28
1981			----		3,757	----	----		----	----		----		
1982		----	----		----	----		----	----	1,993				
1983	----	----		----	----	1,123		----	562	466				7
1984	----			----	281	2,579			93	242			4	----
1985		31			1,398	1,401			453	216	----		----	
1986	31	14			408	358	----		82	----		----		
1987			----		56	----			----	728				
1988		----			----	478		----	166	196				
1989	----	28		----	353	1,054			588	22				
1990					710	4,508		24	22					
1991					2,588					181				
1992						1,973			125	160				
1993					624	4,764			352	511				
1994					1,535	14,313			1,534	176				
1995					12,268	8,480			483	33				
1996					835	3,701			33					
1997					345									
1998														
	Female harvest (number of fish) by brood year													
1977														209
1978														----
1979										4,592	----		----	----
1980						33,395	----		6,053	----	----	----	----	28
1981		209	----		7,514	----	----		----	----	28	----	28	
1982		----	----		----	----		----	----	1,854				
1983	----	----		----	----	1,544		----	1,011	870				15
1984	----			----	674	2,734	5	28	280	320			4	----
1985		31			1,740	1,789	4		501	279	----		----	
1986	31	28			567	494	----		142	----		----		
1987			----		112	----			----	713				
1988		----			----	471		----	208	220			12	
1989	----			----	367	1,053	22		968	67				
1990	7				1,103	6,403			67					
1991					3,917					187				32
1992						1,986			150	496				
1993					987	4,092			719	352				
1994				12	3,837	7,668			439	432				
1995					12,779	9,754			432	0				
1996					1,098	2,632			0					
1997					592									
1998														

[1] Age compostion calculated from Delight Lake sample

Appendix B.4. Estimated age composition by harvest year for sockeye salmon harvested in the China Poot subdistrict. Dashed lines indicat indicate no data collected that year (page 4 of 4).

	AGE GROUP																							
Year	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n	2.4	n	3.1	n	3.2	n	3.3	n
Male age composition by harvest year																												
1980																												
1981																												
1982																												
1983	0.4	1	1.1	3					13.2	35	19.3	51					8.7	23	1.1	3								
1984									29.9	154	11.5	59	0.4	2			1.6	8	3.7	19								
1985									4.1	18	32.8	144					3.2	14	3.0	13							0.2	1
1986	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1987	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1988									3.1	10	12.2	40					6.1	20	21.7	71							0.3	1
1989	0.3	1	0.3	1					13.6	45	25.1	83					0.9	3	4.5	15								
1990			0.2	3					7.1	65	24.5	229					7.9	76	4.2	43								
1991									3.2	15	20.2	96					4.6	22	12.2	58					0.2	1	0.4	2
1992	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1993																												
1994									12.0	58	17.8	86			0.4	2	9.9	48	3.3	16								
1995									14.7	116	25.6	202					0.1	1	0.1	1								
1996									24.9[a]	94	19.0[a]	71																
1997									10.0[c]	66	31.6[c]	210					2.0[c]	13	2.9[c]	19								
1998									9.6[a]	47	29.8[a]	146					2.2[a]	11	1.0[a]	5								
1999									24.0[a]	108	28.0	124					3.0	15	1.0	4								
2000									3.9	19	39.2	193					2.2	11	0.8	4								
2001									4.7[a]	21	50.4[a]	225					0.4[a]	2	0.4[a]	2								
Female age composition by harvest year																												
1980																												
1981																												
1982																												
1983			1.1	3					18.1	48	26.4	70	0.4	1	0.4	1	8.7	23	1.1	3								
1984			0.2	1					30.9	159	15.9	82	0.4	2			3.3	17	1.9	10	0.4	2						
1985			0.2	1					8.2	36	36.5	160					6.6	29	5.0	22							0.2	1
1986	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1987	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1988									7.3	24	16.8	55			0.3	1	11.0	36	20.2	66	0.3	1			0.3	1	0.3	1
1989	0.3	1	0.3	1					16.9	56	26.6	88					2.7	9	8.5	28								
1990			0.5	6					9.9	93	31.2	296	0.1	1			8.8	87	5.6	56								
1991									6.3	30	27.9	133	0.2	1			8.0	38	15.7	75					0.2	1	0.9	4
1992	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1993																												
1994									18.6	90	17.8	86					16.3	79	3.7	18					0.2	1		
1995									22.3	176	36.3	287	0.1	1			0.4	3	0.4	3								
1996									35.1[a]	131	21.0[a]	79																
1997							0.2[c]	1	15.8[c]	105	31.8[c]	211			0.3[c]	2	2.4[c]	16	3.0[c]	20								
1998									24.0[a]	118	25.6[a]	126					4.5[a]	22	3.1[a]	15							0.2[a]	1
1999									25.0[a]	115	15.0	69					3.0	13	1.0	5								
2000									5.1	25	45.1	222					2.0	10	1.6	8								
2001									8.1[a]	36	35.9[a]	160																
Both sexes																												
1980																												
1981																												
1982																												
1983	0.4	1	2.3	6					31.3	83	45.7	121	0.4	1	0.4	1	17.4	46	2.3	6								
1984			0.2	1					60.8	313	27.4	141	0.8	4			4.9	25	5.6	29	0.4	2						
1985			0.2	1					12.3	54	69.3	304					9.8	43	8.0	35							0.5	2
1986	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1987	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1988									10.4	34	29.1	95			0.3	1	17.1	56	41.9	137	0.3	1			0.3	1	0.6	2
1989	0.6	2	0.6	2					30.5	101	51.7	171					3.6	12	13.0	43								
1990			0.7	9					17.0	158	55.7	525	0.1	1			16.7	163	9.8	99								
1991									9.5	45	48.1	229	0.2	1			12.6	60	27.9	133					0.5	2	1.2	6
1992	----		----		----		----		----		----		----		----		----		----		----		----		----		----	
1993																												
1994									30.6	148	35.5	172			0.4	2	26.3	127	7.0	34					0.2	1		
1995									37.0	292	61.9	489	0.1	1			0.5	4	0.5	4								
1996									60.0[a]	225	40.0[a]	150																
1997							0.20[c]	1	25.8[c]	171	63.4[c]	421			0.3[c]	2	4.4[c]	29	5.9[c]	39								
1998									33.6[a]	165	55.4[a]	272					6.7[a]	33	4.1[a]	20							0.2[a]	1
1999									49.0	223	43.0	193					6.0	28	2.0	9								
2000									8.9	44	84.3	415					4.3	21	2.4	12								
2001									12.8[a]	57	86.3[a]	385					0.4[a]	2	0.4[a]	2								

[a] Delight Lake escapement, [b] Desire Lake escapement, [c] Delight and Desire escapement

Appendix C.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Aialik subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood	AGE GROUP																										
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n
Male mean length (mm) by brood year																													
1978													502	4	89	581	5	22							534	7	4	586	13	6
1979													515	3	116	581	2	93	648	NA	1				529	7	8	582	6	20
1980										355	25	2	500	10	17	569	3	85							510	7	30	571		
1981										400	NA	1	496			566			—			380	NA	1	498			—		
1982							—						—			—									—			581	5	33
1983				—									517	3	58	581	4	73				—			512	10	9	607	5	39
1984	—						561	NA	1	—			521	3	65	590	2	214	610	4	2				539	5	19	610	9	12
1985													541	5	73	613	4	50							545	2	126	571	3	103
1986				659	NA	1				367	4	2	496	8	29	566	4	38							498	7	22			
1987	478	NA	1																									611	NA	1
1988																568	2	110							534	NA	1			
1989													513	3	64															
1990										337	NA	1				570	7	36	—						508	2	2	—		
1991							—						501	4	21	—			—			—			—			—		
1992				—			—						—			—			—			—			—			—		
1993				—			—			—			—			—			—			—			—			—		
1994	—			—			—			—			—			—			—			—			—			—		
1995	—			—			—			—			—			—			—			—			—			—		
1996	—			—			—			—			—			—			—			—			—			—		
1997	—			—						—			—			—			—			—			—			—		
1998	—									—																				
Female mean length (mm) by brood year																													
1978																557	3	43	546	11	5				530	na	1	565	6	3
1979													499	2	119	557	2	100							512	8	4	548	5	24
1980													493	2	117	551	2	103							493	4	19	547		
1981				539	NA	1							497	5	17	544			—						501			—		
1982							—						496			—									—			564	3	53
1983				—									—			555	2	110				—			506	9	17	579	6	21
1984	—			516	NA	1				—			502	2	110	563	1	274	632	NA	1				526	4	27	594	6	6
1985													506	3	70	579	4	56							520	2	137	547	2	149
1986													529	3	66	544	3	68							501	4	37			
1987													496	5	29															
1988																												518	NA	1
1989																			542	NA	1									
1990																548	1	191							496	15	5			
1991													497	1	154															
1992										515	NA	1				561	2	60	—						460	NA	1	—		
1993							—						487	6	19	—			—			416	NA	1	—			—		
1994				—			—						—			—			—			—			—			—		
1995	—			—			—			—			—			—			—			—			—			—		
1996	—			—			—			—			—			—						—			—					
1997	—			—						—			—									—								
1998	—									—																				

Appendix C.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Aialik subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood	AGE GROUP																											
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n
Male mean length (mm) by brood year																														
1978																3.16	0.10	8							2.67	0.21	3	2.9	NA	1
1979													0.06	38.00		3.34	0.07	38	4.8	NA	1				2.37	0.28	2	3.76	0.14	14
1980													2.42	0.06	54	3.5	0.07	51							2.56	0.12	17	2.86		
1981													2.63	0.16	5	2.96			—			1.3	NA	1	2.11			—		
1982							—						2.1			—									—			3.76	0.17	4
1983				—									—			3.37	0.35	9				—			1.55	NA	1	3.45	0.50	2
1984	—									—			2.44	0.19	6	3.8	0.16	20							2.45	NA	1	3.1	NA	1
1985													1.59	0.22	4	3.69	0.19	7							2.61	0.10	15	2.86	0.08	17
1986													2.48	0.52	4	2.96	0.13	5							2.11	0.18	3			
1987										0.8			2.1	0.22	6															
1988																														
1989																														
1990																3.28	0.10	16	—									—		
1991							—						2.47	0.14	4	—			—						—			—		
1992				—			—						—			—			—			—			—			—		
1993	—			—			—			—			—			—			—			—			—			—		
1994	—			—			—			—			—			—			—			—			—			—		
1995	—			—			—			—			—			—			—			—			—			—		
1996	—			—			—			—			—			—						—			—					
1997	—			—						—			—									—								
1998	—									—																				
Female mean length (mm) by brood year																														
1978																2.94	0.09	14	2.85	NA	1				2.55	0.00	1	3	0.05	2
1979													2.03	0.05	43	2.93	0.05	59							2.33	0.08	2	3.2	0.10	12
1980													2.01	0.04	56	3.04	0.04	54							2.66	0.21	7			
1981				2.95	NA	1							2.28	0.08	9				—									—		
1982							—									—									—			3.4	0.13	3
1983				—									—			2.91	0.31	7				—			2.2	0.50	2	2.95	NA	1
1984	—									—			1.88	0.13	13	2.99	0.07	31							1.8	0.05	2	3.1	NA	1
1985													1.97	0.14	9	3.1	0.21	3							2.02	0.08	18	2.37	0.05	25
1986													1.85	0.04	6	2.42	0.09	11							1.96	0.14	5			
1987													1.76	0.08	5															
1988																														
1989																														
1990																2.52	0.07	22	—						1.81	NA	1	—		
1991							—						2.02	0.05	13	—			—						—			—		
1992				—			—						—			—			—			—			—			—		
1993	—			—			—			—			—			—			—			—			—			—		
1994	—			—			—			—			—			—			—			—			—			—		
1995	—			—			—			—			—			—			—			—			—			—		
1996	—			—			—			—			—			—						—			—					
1997	—			—						—			—									—								
1998	—									—																				

Appendix C.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Aialik subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood	AGE GROUP													
Year	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
	Male harvest (number of fish) by brood year													
1978														
1979														----
1980											----		----	
1981							----			----		----		
1982			----			----			----	1,440				
1983		----			----	3,184		----	393	170				
1984	----		4	----	2,531	3,084	29		83	174				
1985					347	723			1,824	1,020				
1986		14		9	1,056	376			218	68				
1987	14				287	1,115				159				
1988					67	256			287					
1989					798					4	----			----
1990						408	----		4	----			----	
1991			----		238	----			----		----	----		----
1992		----		4	----	542	----	----	30	----	----		----	----
1993	----		----	----	317	----	----		----	----	----	----	----	----
1994		----	----		----	----	----	----	----	----	----	----	----	----
1995	----	----	----	----	----	----	----	----	----	----		----	----	
1996	----	----	----	----	----	----		----	----			----		
1997	----	----		----	----			----						
1998	----			----										
	Female harvest (number of fish) by brood year													
1978														
1979														----
1980											----		----	
1981							----			----		----		
1982			----			----			----	2,312				
1983		----			----	4,799		----	742	92				
1984	----	44		----	4,800	4,262	14		118	87				
1985					369	810			1,982	1,476				
1986					955	673			366	67				
1987					287	1,115				160				
1988					68	255			287					
1989					798		4			4	----			----
1990						709	----		19	----			----	
1991			----		573	----			----		----	----		----
1992		----		4	----	906	----	----	1	----	----		----	----
1993	----			----	287	----	----	15	----	----	----	----	----	----
1994		----	----		----	----	----	----	----	----	----	----	----	----
1995	----	----	----	----	----	----	----	----	----	----		----	----	
1996	----	----	----	----	----	----		----	----			----		
1997	----	----		----	----			----						
1998	----			----										

Appendix C.4. Estimated age composition by harvest year for sockeye salmon harvested in the Aialik subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

Brood	AGE GROUP																	
Year	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n
Male age composition by harvest year																				
1983																				
1984							0.2	1	25.6	116	20.5	93					1.8	8	1.3	6
1985									5.4	17	26.7	85	0.3	1	0.3	1	9.4	30	6.3	20
1986									7.6		9.9						5.7		26.9	
1987	—		—		—		—		—		—		—		—		—		—	
1988									12.5	58	15.7	73					1.9	9	7.1	33
1989					0.1	1	0.1	2	4.1	65	36.1	214					1.0	19	2.0	39
1990	0.2	1	0.2	1					13.8	73	9.4	50	0.4	2			23.7	126	2.3	12
1991									6.1	29	8.0	38					4.6	22	21.7	103
1992									NA		NA								2.7	
1993																				
1994																				
1995							0.2	1	12.1	64	20.7	110					0.2	1	0.2	1
1996	—		—		—		—		—		—		—		—		—		—	
1997									15.0	21	25.7	36					1.4	2		
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	
Female age composition by brood year																				
1983																				3
1984									25.8	117	22.1	100	1.1	5			0.9	4	0.7	3
1985			0.3	1					5.4	17	32.4	103					6.0	19	7.6	24
1986									5.0		12.0						7.0		26.0	
1987	—		—		—		—		—		—		—		—		—		—	
1988			0.2	1					23.7	110	23.7	110					3.7	17	11.4	53
1989									4.3	70	49.9	274					1.4	27	1.1	21
1990									12.4	66	10.5	56	0.2	1			25.8	137	1.1	6
1991									6.1	29	14.3	68					7.8	37	31.4	149
1992									NA		NA								3.0	
1993																				
1994																				
1995							0.2	1	29.1	154	36.0	191	0.2	1			1.0	5	0.2	1
1996	—		—		—		—		—		—		—		—		—		—	
1997									13.6	19	42.9	60			0.7	1	0.1	1		
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	
Both Sexes																				
1984																				
1985			0.3	1					10.7	34	59.1	188	0.3	1	0.3	1	15.4	49	13.8	44
1986																				
1987	—		—		—		—		—		—		—		—		—		—	
1988			0.2	1					36.2	168	39.4	183					5.6	26	18.5	86
1989																				
1990	0.2	1	0.2	1					26.2	139	20.0	106	0.6	3			49.5	263	3.4	18
1991									12.2	58	22.3	106					12.4	59	53.1	252
1992									5.4	2	89.2	33							5.4	2
1993	—		—		—		—		—		—		—		—		—		—	
1994									70.4	190	18.9	51					7.8	21	3.0	8
1995							0.4	2	41.2	218	56.7	301	0.2	1			1.2	6	0.4	2
1996	—		—		—		—		—		—		—		—		—		—	
1997									28.6	40	68.6	96			0.7	1	2.1	3		
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	

Appendix D.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Chenik subdistrict. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood	AGE GROUP																									
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n
Male mean length (mm) by brood year																														
1978																581	4	36												
1979													533	5	20	574	14	4												
1980													508	2	122	568	2	93												
1981													498	5	18	569	9	12	----						509	6	22	----		
1982							----						508	2	214	----			602	NA	1				----			585	NA	3
1983				----									----			565	1	441				----			508	3	21	571	4	26
1984	----									----			498	3	83	568	3	92				370	5	8	535	3	45	555	11	7
1985													518	2	46	554	3	114							502	6	16	562	5	9
1986				552	26	5							493	1	327	550	2	104							517	9	10			
1987	417	NA	1										505	2	142	547	3	80												
1988													501	2	85	553	1	262	550	NA	1				549	5	6			
1989													516	5	32	548	3	44				329	NA	1	*509*	*NA*	*1*	*541*	*9*	*2*
1990													*491*	*1*	*44*	*558*	*1*	*203*												
1991													*504*	*3*	*80*													*535*	*NA*	*1*
1992																*559*	*2*	*124*	----									----		
1993							----			*436*	*NA*	*1*	*491*	*4*	*26*	----			----						----			----		
1994				----			----						----			----			----			----			----			----		
1995	----			----			----			----			----			----			----			----			----			----		
1996	----			----			----			----			----			----						----			----					
1997	----			----						----			----									----								
1998	----									----																				
Female mean length (mm) by brood year																														
1978																548	3	46												
1979													497	3	57	538	11	4	515	NA	1							537	24	3
1980													486	2	91	542	2	118							467	20	3			
1981				547	1	2							485	5	17	530	3	6	----						489	3	16	----		
1982							----						486	2	132	----									----			561	16	5
1983				----									----			536	1	520				----			490	3	48	543	5	16
1984	----									----			484	2	111	542	2	69							505	3	47	523	14	4
1985													494	3	62	534	2	125				324	NA	1	485	6	15	512	7	3
1986				537	7	7							469	2	272	530	2	148							492	10	8	537	NA	1
1987													481	2	94	512	3	55												
1988													487	3	70	532	1	203							496	NA	1			
1989													492	4	32	530	3	39							*482*	*25*	*2*	*544*	NA	1
1990													*476*	*3*	*52*	*531*	*1*	*181*							*470*	*NA*	*1*			
1991													*478*	*3*	*57*													*572*	NA	1
1992																*531*	*2*	*126*	----									----		
1993							----						*476*	*3*	*34*	----			----						----			----		
1994				----			----						----			----			----			----			----			----		
1995	----			----			----			----			----			----			----			----			----			----		
1996	----			----			----			----			----			----						----			----					
1997	----			----						----			----									----								
1998	----									----																				

Appendix D.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Chenik subdistrict. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood	AGE GROUP																								
Year	0.2	SE	n	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n
Male mean weight (kg) by brood year																														
1978																2.64	0.05	36												
1979													2.05	0.06	20	2.58	0.03	2												
1980													1.76	0.03	56	2.81	0.07	27												
1981													2.08	0.06	8	2.2	0.28	4	----						1.75	0.09	12	----		
1982							----						1.64	0.03	81	----									----					
1983				----									----			2.6	0.06	49				----			1.98	NA	2	2.3	NA	1
1984	----									----			1.71	0.12	13	2.5	0.13	9				0.90	NA	1	2.18	0.09	4			
1985													2.05	NA	1	2.37	0.14	3										1.99	0.06	3
1986													1.82	0.06	25	1.71	0.05	21							1.59	0.03	3			
1987													1.4	0.04	26	2.1	0.1	16												
1988													1.6	0.07	17	2.11	0.06	24										2.2	NA	1
1989													1.37	0.2	3	2.19	0.05	44							1.7	NA	1	2.05	0.25	2
1990													1.56	0.02	144	2.25	0.02	203												
1991													1.65	0.03	80													2.3	NA	1
1992																2.4	0.03	124	----									----		
1993							----			2.00	NA	1	1.59	0.05	26	----			----						----			----		
1994				----			----						----			----			----			----			----			----		
1995	----			----			----			----			----			----			----			----			----			----		
1996	----			----			----			----			----			----						----			----					
1997	----			----						----			----									----								
1998	----									----																				
Female mean weight (kg) by brood year																														
1978																2.05	0.04	46												
1979													1.52	0.03	57	2.02	0.06	3										3.6	NA	1
1980													1.39	0.03	55	2.44	0.06	27												
1981				3	NA	1							1.88	0.09	3	1.83	0.09	3	----						1.46	0.07	9	----		
1982							----						1.39	0.03	37	----									----					
1983				----									----			2.01	0.05	44				----			1.55	NA	2	1.9	NA	1
1984	----									----			1.54	0.06	15	2.03	0.12	6							1.75	0.11	4			
1985													1.53	0.09	4	2.1	NA	1							1.3	NA	1			
1986													1.52	0.04	16	1.5	0.03	24							1.38	NA	1	1.89	NA	1
1987													1.1	0.04	14	1.55	0.11	9												
1988													1.48	0.09	12	1.78	0.05	25												
1989													1.4	NA	1	1.81	0.05	39							1.35	0.05	2	1.8	NA	1
1990													1.31	0.03	52	1.77	0.02	181							1.1	NA	1			
1991													1.29	0.03	57													2.25	NA	1
1992																1.93	0.03	126	----									----		
1993							----						1.32	0.04	34	----			----						----			----		
1994				----			----						----			----			----			----			----			----		
1995	----			----			----			----			----			----			----			----			----			----		
1996	----			----			----			----			----			----						----			----					
1997	----			----						----			----									----								
1998	----									----																				

Appendix D.3. Estimated sockeye salmon harvest by sex, brood year, and age group, Chenik subdistrict. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood	AGE GROUP													
Year	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
						Male harvest (number of fish) by brood year								
1979														
1980						3,875					---			---
1981					750	3,322	---		6,091	---			---	
1982			---		59,250	---	187		---	414		---		
1983		---			---	63,150		---	2,951	2,504				
1984	---			---	9,843	8,860		1,079	4,333	588				
1985					4,430	9,577			1,120	900				
1986		451			24,897	10,395								
1987	90				14,192	3,953								
1988					4,199	11,986			274					
1989					1,464			46						
1990														
1991											0			0
1992							0			0	0		0	0
1993			0	1		0	0		0	0	0	0	0	0
1994		0	0		0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0		0	0	
1996	0	0	0	0	0	0		0	0			0		
1997	0	0		0	0			0						
1998	0			0										
						Female harvest (number of fish) by brood year								
1979							42			125				
1980						4,916			125		---			---
1981		83			708	1,661	---		4,430	---			---	
1982			---		36,546	---			---	904		---		
1983		---			---	65,687		---	6,063	1,541				
1984	---			---	13,882	6,644			4,526	361				
1985					5,971	10,870		96	1,159	300				
1986		632			20,602	14,792			800	49				
1987					9,395	2,717								
1988					3,460	9,287			46					
1989					1,464									
1990														
1991											0			0
1992							0			0	0		0	0
1993			0			0	0		0	0	0	0	0	0
1994		0	0		0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0		0	0	
1996	0	0	0	0	0	0		0	0			0		
1997	0	0		0	0			0						
1998	0			0										

Appendix D.4. Estimated age composition by harvest year for sockeye salmon harvested in the Chenik subdistrict. Dashed lines indicate no data were collected that year (page 4 of 4).

Brood	AGE GROUP																	
Year	0.2	n	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n
Male age composition by harvest year																				
1983									12.6	20	22.6	36								
1984									55.2	122	1.8	4								
1985									7.1	18	36.5	93								
1986									53.2	214	3.0	12					5.5	22		
1987	—		—		—		—		—		—		—		—		—		—	
1988									6.0	83	38.5	441	0.1	1	0.7	8	1.8	21	0.3	3
1989									11.4	46	22.8	92					11.1	45	6.4	26
1990	0.1	1	0.6	5					35.4	327	13.6	114					1.6	16	0.8	7
1991									27.4	142	20.1	104					1.9	10	1.7	9
1992									29.2	85	27.5	80								
1993									6.0	32	48.8	262			0.2	1	1.1	6		
1994									50.7	144	15.6	44	0.4	1			0.4	1		
1995									15.2	80	38.8	203							0.4	2
1996							0.2	1	31.8	179	16.6	94					0.2	1		
1997									8.3	26	39.8	124							0.3	1
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	
Female age composition by harvest year																				
1983									35.9	57	28.9	46								
1984									41.2	91	1.8	4								
1985			0.8	2					6.7	17	46.3	118	0.4	1			1.2	3	1.2	3
1986									32.8	132	1.5	6					4.0	16		
1987	—		—		—		—		—		—		—		—		—		—	
1988									8.5	111	40.0	520					3.7	48	0.6	5
1989									15.4	62	17.1	69			0.3	1	11.6	47	4.0	16
1990			0.9	7					29.3	272	15.5	125					1.7	15	0.5	4
1991									18.2	94	28.6	148					1.6	8	0.6	3
1992									24.1	70	18.9	55							0.3	1
1993									6.0	32	37.8	203					0.2	1		
1994									18.4	52	13.7	39					0.7	2		
1995									10.9	57	34.4	181					0.2	1	0.2	1
1996									33.7	190	17.4	98					0.2	1		
1997									10.9	34	40.4	126							0.3	1
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	
Both sexes																				
1983									48.4	77	51.6	82								
1984									96.4	213	3.6	8								
1985			0.8	2					13.7	35	82.7	211	0.4	1			1.2	3	1.2	3
1986									86.1	346	4.5	18					9.5	38		
1987	—		—		—		—		—		—		—		—		—		—	
1988									14.5	194	78.5	961	0.1	1	0.7	8	5.5	69	0.8	8
1989									26.7	108	39.9	161			0.3	1	22.8	92	10.4	42
1990	0.1	1	1.5	12					64.7	599	29.1	239					3.2	31	1.4	11
1991									45.6	236	48.7	252					3.5	18	2.3	12
1992									53.3	155	46.4	135							0.3	1
1993									11.9	64	86.6	465			0.2	1	1.3	7		
1994									69.2	196	29.3	83	0.4	1			1.1	3		
1995									26.1	137	73.2	384					0.2	1	0.6	3
1996							0.2	1	65.5	369	34.0	192					0.3	2		
1997									19.2	60	80.2	250					0.6	2		
1998	—		—		—		—		—		—		—		—		—		—	
1999	—		—		—		—		—		—		—		—		—		—	
2000	—		—		—		—		—		—		—		—		—		—	
2001	—		—		—		—		—		—		—		—		—		—	

Appendix E.1. Mean length (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from Mikfik Creek. Dashed lines indicate no data were collected during that year (page 1 of 4).

Brood	AGE GROUP																														
Year	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n
Male mean length (mm) by brood year																																				
1971										503*	16	5	416	NA	1							469	NA	1												
1972										454	24	3																								
1973																																				
1974																																				
1975										503			527	5	12							545	NA	1												
1976										484	11	15													517	12	7									
1977													519	5	23																					
1978										499	8	5																								
1979																																				
1980																505	1	2							520	14	3	----						----		
1981													520	2	117							448	7	13	----											
1982				----						457	6	43	----			----						----			515	12	6				----					
1983	----									----			512	1	190				----			479	8	17	535	5	23									
1984							----			462	2	130	533	1	215							493	6	28	510	4	35									
1985										475	8	26	504	3	88							471	8	14	501	8	5									
1986										441	3	98	500	2	160							456	3	39	491	3	34									
1987										464	4	35	506	1	233							446	12	5	516	4	19									
1988										443	3	19	516	1	102							471	6	13												
1989										457	2	96													501	7	4									
1990							316	NA	2				515	5	32							443	18	2												
1991										433	6	18																----								
1992							332	NA	1				523	2	72	----						474	7	9	----									----		
1993	553	NA	1	----						486	8	19	----									----			----			----			----					
1994	----									----			525	2	80	----			----			487	3	20	----			----						----		
1995				----			----			459	2	85	----			----						----			----						----			----		
1996	----			----						----			----						----			----									----					
1997	----						----			----									----																	
1998							----																													
Female mean length (mm) by brood year																																				
1970													522*	NA	1																					
1971										439*	NA	1	497	9	4							463	8	3												
1972										462	6	10																								
1973																																				
1974																																				
1975													503	7	23							448	3	2												
1976										469	11	15													522	4	9									
1977													513	4	37																					
1978										483	17	10																								
1979																																				
1980																									508	10	4	----						460	NA	1
1981													512	3	63	----						462	4	15	----						----					
1982	545	NA	1	----						458	5	33	----									----			517	NA	2									
1983	----									----			511	2	181				----			469	5	18	525	4	12									
1984							----			458	1	161	531	2	156							480	5	26	510	4	20									
1985										471	6	27	511	3	69							456	10	9	494	6	12									
1986										438	3	73	499	2	155							457	3	65	508	4	18									
1987										461	3	58	509	2	198							451	8	5	520	5	15									
1988										446	3	22	517	1	108							467	7	14												
1989										463	1	110													510	NA	1									
1990							310	5	8				502	3	30							459	17	3												
1991	510	NA	1							444	5	27													501	NA	1	----								
1992													522	3	46	----						457	10	9	----									----		
1993				----						469	8	22	----									----			495	20	3	----			----					
1994	----									----			512	3	82	----			----			477	3	50	----			----						----		
1995				----			----			457	1	138	----			----						----			----						----			----		
1996	----			----						----			----						----			----									----					
1997	----						----			----									----																	
1998							----																													

Appendix E.2. Mean weight (+/- Standard Error: SE) by sex, brood year, and age group of the commercial sockeye salmon catch from the Mikfik Creek. Dashed lines indicate no data were collected during that year (page 2 of 4).

Brood	AGE GROUP																																		
Year	0.3	SE	n	0.4	SE	n	1.1	SE	n	1.2	SE	n	1.3	SE	n	1.4	SE	n	2.1	SE	n	2.2	SE	n	2.3	SE	n	2.4	SE	n	3.1	SE	n	3.2	SE	n	3.3	SE	n
Male mean weight (kg) by brood year																																						
1978																																						
1979																																						
1980																1.6	NA	1							1.75	0.1	2	—						—					
1981													1.76	0.03	48	—						1.2	NA	1	—						—							
1982				—						1.27	0.06	22	—									—			2.5	NA	1												
1983	—									—			2.21	0.04	41				—			1.53	0.08	4	1.87	0.09	3											
1984							—			1.66	0.08	17	2.06	0.07	25							1.37	0.23	2	1.8	NA	1											
1985										0.9	NA	1	1.91	0.09	9							1.25	0.15	2	1.64	0.11	2											
1986										1.45	0.07	8	1.73	0.04	30							1.21	0.14	3	1.65	0.06	3											
1987										1.51	0.07	7	1.72	0.06	20										1.99	NA	1											
1988										1.19	0.05	2	1.7	0.08	9																						
1989										1.24	0.07	10													1.78	0.09	4											
1990													1.93	0.09	32							1.27	0.18	2				—								—		
1991										1.17	0.07	18				—									—			—						—		—		
1992				—			0.5	NA	1				—			—						—			—						—			—				
1993	—			—						—			—						—			—						—			—					—		
1994	—						—			—			1.85	0.05	26	—			—			1.64	0.01	4	—			—						—					
1995				—			—			1.29	0.04	28	—			—						—			—						—			—				
1996	—			—						—			—						—			—									—							
1997	—						—			—									—																			
1998							—																															
Female mean weight (kg) by brood year																																						
1977																																						
1978																																						
1979																																						
1980																									1.53	0.18	3	—						—					
1981													1.62	0.06	22	—						1.13	0.05	5	—						—							
1982	2	NA	1	—						1.06	0.06	16	—									—																
1983	—									—			2.16	0.08	26				—			1.56	0.06	4														
1984							—			1.51	0.04	21	1.78	0.09	17							1.58	0.08	2	1.95	0.25	2											
1985										1.33	0.33	2	1.96	0.06	8							1.7	NA	1	1.6	0.01	3											
1986										1.34	0.05	9	1.62	0.03	34							1.31	0.05	12	1.52	0.12	2											
1987										1.45	0.04	8	1.7	0.05	23										1.97	NA	1											
1988										0.99	0.04	2	1.59	0.05	12							1.02	0.04	2														
1989										1.21	0.05	18													1.72	NA	1											
1990							0.4	NA	1				1.64	0.03	30	—						1.29	0.09	3				—								—		
1991	1.7	NA	1							1.21	0.05	27				—									—			—						—		—		
1992				—									—									—			—						—			—				
1993	—			—			—			—			—			—						—			1.63	0.18	2	—			—					—		
1994	—						—			—			1.72	0.05	38	—						1.42	0.05	18	—			—						—		—		
1995				—						1.27	0.04	53	—			—						—			—						—			—				
1996	—			—						—			—						—			—									—							
1997	—						—			—									—																			
1998							—																															

Appendix E.3. Estimated sockeye salmon harvest by sex, brood year, and age group from Mikfik Creek. Dashed lines indicate no data were collected that year (page 3 of 4).

Brood	AGE GROUP													
Year	0.2	0.3	0.4	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.1	3.2	3.3
Male harvest (number of fish) by brood year														
1976										1,386				
1977						4552								
1978					990									
1979														93
1980							186			279	0		0	
1981						10,869	0		1208	0		0		
1982			0		3,995	0			0	131				
1983		0			0	3,892		0	352	314				
1984	0			0	2,676	2,933			382	782				
1985					355	1,965			313	122				
1986					2,188	3,897			950	252				
1987					853	1,730			37	37				
1988					141	197			25					
1989					185					5	0			0
1990				4		36	0		2	0			0	
1991			0		21	0			0			0		
1992		0		1	0			0						
1993	0			0	22						0			0
1994						1,216	0		286	0	0		0	0
1995			0		1,359	0	0		0	0		0	0	
1996		0	0		0	0		0	0			0		
1997	0	0		0	0			0						
1998	0			0										
Female harvest (numbers of fish) by brood year														
1976										1,782				
1977						7,324								
1978					1,979									
1979														0
1980										372	0		93	
1981						5,852	0		1,394	0		0		
1982		93	0		3,066	0			0	42				
1983		0			0	3,746		0	381	164				
1984	0			0	3,420	2,129			355	447				
1985					368	1,541			201	292				
1986					1,629	3,776			1,583	134				
1987					1,413	1,469			37	29				
1988					163	209			27					
1989					213					1	0			0
1990				15		35	0		3	0			0	
1991		1	0		31	0			0			0		
1992		0			0			0						
1993	0			0	26	1,296			792	71	0			0
1994						1,288	0		787	0	0		0	0
1995			0		2,146	0	0		0	0		0	0	
1996		0	0		0	0		0	0			0		
1997	0	0		0	0			0						
1998	0			0										

Appendix E.4. Estimated age composition by harvest year for sockeye salmon harvested in the Milkfik Creek. Dashed lines indicate no data were collected that year (page 4 of 4).

	AGE GROUP																					
Year	0.3	n	0.4	n	1.1	n	1.2	n	1.3	n	1.4	n	2.1	n	2.2	n	2.3	n	2.4	n	3.1	n	3.2	n	3.3	n
Male age composition by harvest year																										
1976							13.6	3	4.6	1					4.6	1										
1977																										
1978																										
1979																										
1980							22.1	15	17.6	12					1.5	1										
1981																										
1982							5.5	5	25.3	23							7.7	7								
1983																										
1984																										
1985																										
1986							14.5	43	39.5	117	0.7	2			4.4	13	1.0	3							0.3	1
1987	---		---		---		---		---		---		---		---		---		---		---		---		---	
1988							18.3	130	26.6	190					2.4	17	0.9	6								
1989							5.1	26	41.9	215					5.5	28	4.5	23								
1990							24.1	98	21.7	88					3.5	14	8.6	35								
1991							6.6	35	30.2	160					7.4	39	1.0	5								
1992							3.6	19	43.7	233					0.9	5	6.4	34								
1993					0.4	2	19.7	96	20.9	102					2.7	13	3.9	19								
1994																										
1995																										
1996	---		---		---		---		---		---		---		---		---		---		---		---		---	
1997	0.1	1					10.6	19	40.2	72					5.0	9										
1998	---		---		---		---		---		---		---		---		---		---		---		---		---	
1999							19.0	85	17.0	80					4.0	20										
2000	---		---		---		---		---		---		---		---		---		---		---		---		---	
2001	---		---		---		---		---		---		---		---		---		---		---		---		---	
Female age composition by harvest year																										
1976							45.5	10	18.2	4					13.6	3										
1977																										
1978																										
1979																										
1980							22.1	15	33.8	23					2.9	2										
1981																										
1982							11.0	10	40.7	37							9.9	9								
1983																										
1984																										
1985																										
1986	0.3	1					11.2	33	21.3	63					5.1	15	1.4	4					0.3	1		
1987	---		---		---		---		---		---		---		---		---		---		---		---		---	
1988							23.4	161	25.6	181					2.6	18	0.3	2								
1989							5.3	27	30.4	156					5.1	26	2.3	12								
1990							18.0	73	17.0	69					2.2	9	4.9	20								
1991							11.0	58	29.3	155					12.3	65	2.3	12								
1992							4.1	22	37.1	198					0.9	5	3.4	18								
1993					1.6	8	22.6	110	22.2	108					2.9	14	3.1	15								
1994																										
1995																										
1996	---		---		---		---		---		---		---		---		---		---		---		---		---	
1997							12.3	22	25.7	46					5.0	9	0.6	1								
1998	---		---		---		---		---		---		---		---		---		---		---		---		---	
1999							30.0	138	18.0	82					11.0	50	1.0	3								
2000	---		---		---		---		---		---		---		---		---		---		---		---		---	
2001	---		---		---		---		---		---		---		---		---		---		---		---		---	
2001	---		---		---		---		---		---		---		---		---		---		---		---		---	
Both sexes																										
1975							66.7	6	22.2	2					11.1	1										
1976							59.1	13	22.7	5					18.2	4										
1977																										
1978																										
1979																										
1980							44.2	30	51.4	35					4.4	3										
1981																										
1982							16.5	15	65.9	60							17.6	16								
1983																										
1984																										
1985																										
1986							25.7	76	60.8	180	0.7	2			9.5	28	2.4	7					0.3	1	0.3	1
1987	---		---		---		---		---		---		---		---		---		---		---		---		---	
1988							41.6	291	52.2	371					5.0	35	1.2	8								
1989							10.3	53	72.3	371					10.5	54	6.8	35								
1990							42.1	171	38.7	157					5.7	23	13.6	55								
1991							17.6	93	59.5	315					19.7	104	3.2	17								
1992							7.7	41	80.7	431					1.9	10	9.7	52								
1993					2.0	10	42.3	206	43.2	210					5.5	27	7.0	34								
1994																										
1995																										
1996	---		---		---		---		---		---		---		---		---		---		---		---		---	
1997	0.6	1					22.9	41	65.9	118					10.0	18	0.6	1								
1998	---		---		---		---		---		---		---		---		---		---		---		---		---	
1999							49.0	223	35.0	162					15.0	70	1.0	3								
2000	---		---		---		---		---		---		---		---		---		---		---		---		---	
2001	---		---		---		---		---		---		---		---		---		---		---		---		---	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 1 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1968	Southern	English Bay	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1969	Eastern	Ress. Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1970	Southern	McDonald Spit	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1972	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1973	Southern	Homer Dock	Sockeye	Set net	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	south bay set net
1974	Outer	Port Dick	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1974	Outer	Island Cr	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1974	Southern	Kasitsna	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1975	Kamishak	Mikfik Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1975	Southern	Homer	Sockeye	Set net	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	set net sites?
1975	Kamishak	Mikfik Lake	Sockeye	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Kamishak	Cottonwood	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Kamishak	Ursus	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1976	Southern	English Bay	Sockeye	?	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Kamishak	McNeil River	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Outer	Delight Lake	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1977	Outer	Desire Lake	Sockeye	Escapement	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1978	Southern	Tutka	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1980	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	McNeil River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1982	Kamishak	Silver Beach	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Eastern	Aialik	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Chenik Lake	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	China Poot	Sockeye	Comm Catch	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Delight Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Desire Lake	Sockeye	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	English Bay	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Iniskin	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Kamishak River	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	McNeil River	Chum	Comm Catch	32	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Outer	Nuka Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Eastern	Tonsina Cr	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Southern	Tutka	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Silver Beach	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1983	Kamishak	Mikfik Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Aialik	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Chenik Lake	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Iniskin	Chum	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	Kasitsna	Sockeye	Set net	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 2 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1984	Southern	Kasitsna	Sockeye	Set net	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Kamishak River	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	McNeil River	Chum	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Outer	Nuka Bay	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Ress. Bay	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Southern	Seldovia Bay	Sockeye	Set net	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Eastern	Ress. Bay	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Outer	Rocky Bay	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1984	Kamishak	Ursus	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Eastern	Aialik	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Kamishak	Chenik Lake	Sockeye	Escapement.	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Southern	China Poot	Sockeye	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Outer	Desire Lk	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Southern	Kasitsna	Sockeye	Set net	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Kamishak	Mikfik Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1985	Outer	Nuka Bay	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	no acetate impressions
1985	Eastern	Tonsina Cr	Chum	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	Chenik Lake	Sockeye	Escapement.	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	scales missing
1986	Southern	China Poot	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	McNeil River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	scales missing
1986	Southern	Kasitsna	Sockeye	Set net	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1986	Kamishak	Mikfik Lake	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	2 acetates missing
1988	Eastern	Aialik	Sockeye	Comm Catch	14	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Chenik Lake	Sockeye	Escapement	36	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Southern	China Poot	Sockeye	Comm Catch	30	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Cottonwood	Chum	Comm Catch	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Iniskin	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	McNeil River	Chum	Comm Catch	27	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Outer	Nuka Bay	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Mikfik Lake	Sockeye	Comm Catch	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Outer	Port Dick	Chum	Comm Catch	25	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Kamishak	Silver Beach	Chum	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1988	Eastern	Tonsina Cr	Chum	Comm Catch	21	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Eastern	Aialik	Sockeye	Comm Catch	23	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Kamishak	Chenik Lake	Sockeye	Escapement	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Southern	China Poot	Sockeye	Comm Catch	30	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1989	Outer	Nuka Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Kamishak	Chenik Lake	Sockeye	Escapement	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Kamishak	Chenik Lake	Sockeye	Escapement	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 3 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1990	Kamishak	Mikfik Lake	Sockeye	Comm Catch	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1990	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/5/1990
1990	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1990
1991	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Bruin Bay	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/13/1991
1991	Southern	China Poot	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/18/1991
1991	Kamishak	Douglas River	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Kamishak River	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Port Dick	Chum	Comm Catch	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1991	Outer	Port Dick	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Bruin Bay	Chum	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Chenik Lake	Sockeye	Escapement	27	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Chenik Lake	Sockeye	Ecapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Southern	China Poot	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Cottonwood	Chum	Comm Catch	9	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Outer	Delight Lake	Sockeye	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Southern	English Bay	Sockeye	Escapement	41	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	McNeil River	Chum	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1992	Kamishak	Silver Beach	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/7/1992
1992	Kamishak	Silver Beach	Chum	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/31/1992
1992	Kamishak	Silver Beach	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Chenik Lake	Sockeye	Escapement	24	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/25/1993
1993	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/1/1993
1993	Southern	China Poot	Sockeye	Comm Catch	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Southern	English Bay	Sockeye	Escapement	44	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Southern	Neptune Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Mikfik Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1993	Kamishak	Silver Beach	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	Chenik Lake	Sockeye	Escapement	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	China Poot	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	English Bay	Sockeye	Escapement	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Southern	Hazel Lake	Sockeye	Escapement	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	4 fish sample

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 4 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1994	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	McNeil River	Chum	Test Fish	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Fish taken in Lagoon
1994	Southern	Neptune Bay	Sockeye	Comm Catch	5	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Outer	Nuka Bay	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delight Lake
1994	Outer	Nuka Bay	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Desire Lake
1994	Outer	Nuka Bay	Sockeye	Escapement	2	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delusion Lake
1994	Eastern	Ress. Bay	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1994	Kamishak	Silver Beach	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Eastern	Aialik	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Chenil Lake	Sockeye	Escapement	18	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/28/1995
1995	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	8/2/1995
1995	Outer	Delight Lake	Sockeye	Escapement	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	Mikfik Lake	Sockeye	Comm Catch	4	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Kamishak	McNeil River	Chum	Comm Catch	1	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Southern	Neptune Bay	Sockeye	Comm Catch	18	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/27/1995
1995	Outer	Nuka Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/30/1995
1995	Outer	Nuka Bay	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1995
1995	Eastern	Ress. Bay	Sockeye	Comm Catch	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1995	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	Chenik Lake	Sockeye	Escapement	23	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Southern	China Poot	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Kamishak	McNeil River	Chum	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Southern	English Bay	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Cost Recovery
1996	Southern	Neptune Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1996	Outer	Nuka Bay	Sockeye	Comm Catch	11	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Delight Lk escapement
1996	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	6/4/1996
1996	Eastern	Ress. Bay	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Eastern	Aialik	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Kamishak	Chenik Lake	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/8/1997
1997	Southern	China Poot	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	7/11/1997
1997	Outer	Delight Lake	Sockeye	Escapement	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	EVOS funded project
1997	Outer	Desire Lake	Sockeye	Escapement	21	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	EVOS funded project
1997	Kamishak	Mikfik Lake	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Southern	Neptune Bay	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Eastern	Ress. Bay	Sockeye	Comm Catch	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1997	Kamishak	Silver Beach	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix F. Inventory and storage location of archived Lower Cook Inlet adult salmon scales (page 5 of 5).

Year	District	Location	Species	Sample Type	# of cards	Card Location	Electronic File Location	Hardcopy File Location	Comments
1998	Eastern	Bear Creek	Sockeye	Escapement	54	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	From CIAA
1998	Southern	China Poot	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1998	Outer	Delight Lake	Sockeye	Escapement	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Escapement project
1998	Outer	Desire Lake	Sockeye	Comm Catch	3	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1998	Eastern	Grouse Lake	Sockeye	Escapement	24	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	poor quality, 7/20/98
1998	Eastern	Grouse Lake	Sockeye	Escapemenet	25	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	8/15/1998
1999	Southern	China Poot	Sockeye	Comm Catch	16	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Kamishak	Mikfik Lake	Sockeye	Comm Catch	14	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Desire Lake	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Delight Lake	Sockeye	Escapement	19	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
1999	Outer	Delight Lake	Coho	Escapement	6	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Southern	China Poot	Sockeye	Escapement	7	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Kamishak	Kirchsner Lk	Sockeye	Escapement	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2000	Kamishak	Douglas River	Chum	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Sampled 7/21
2000	Kamishak	Kamishak River	Chum	Escapement	8	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Sampled 7/25
2000	Outer	Port Dick	Chum	Comm Catch	20	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	Data lost in cabin fire
2000	Outer	East Nuka	Sockeye	Comm Catch	15	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2001	Eastern	Bear Creek	Sockeye	Escapement	10	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	From CIAA
2001	Outer	Delight Lake	Sockeye	Escapement	12	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2001	Southern	China Poot	Sockeye	Comm Catch	14	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2001	Southern	Neptune Bay	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	
2001	Kamishak	Kirchsner Lk	Sockeye	Comm Catch	13	Archive cabinet	c:/data_reports/data.salmon/awl	Archive cabinet	

Appendix G. Inventory of Lower Cook Inlet sockeye and chum salmon AWL data, 1983 through 2000.

Location	Sample Year																		
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
									Sockeye										
China Poot	C	C	C	C		C	C	C	C	C	C	C	C	C	C	C	C	C	C
Neptune Bay											C	C,E	C	C	C				C
English Bay	C									E	E	E		E					
Chenik Lake	C	C	E	C		E	E	E	E	E	E	E	E	E					
E. Nuka Bay		C	C			C	C	C	C		C	C	C						
Delight Lake										C		E	E	E	E	E	E	C	E
Desire Lake	E		C									E			E	C	C		
Kirschner Lake									C	C	C	C	C	C			C	C	C
Aialik Lake	C	C	C			C	C	C	C				C		C				
Grouse Lake																E			
Resurrection Bay		C										C	C	C	C				
Resurrection Bay, Bear Lk.																C	E	E	E
Douglas/Kamishak River									C										
Silver Beach	C									C	C	C			C				
Mikfik Lake	C		C	C		C	C	C	C	C	C		C		C		C		
									Chum										
McNeil River	C	C		C		C				C		C	C	E					
Cottonwood Cr						C				C									
Silver Beach						C				C								C	
Iniskin River	C	C				C													
Tonsina Cr.	C		C			C													
Aialik Bay		C																	
Kamishak River	C	C							C										C
Resurrection Bay		C																	
Port Dick Bay						C			C										
Bruin Bay								C		C									
Rocky Bay		C																	
Ursus Bay		C																	

Appendix H. Names and locations of files used to generate this report. All files are stored on the hard drive of the finfish research computer and backed up on CD ROM.

File Name	Subdirectory	Format	Description
01salmawlrir.doc	C:\REPORTS\SALMON\AWL\2001	Word 2000	Text, tables, and figures (inluding bitmap images of appendices) for the 2001 LCI salmon AWL Regional information Report
01Appendix A.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	China Poot sockeye age, weight, length data by brood year and age group
01Appendix B.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	Nuka Bay sockeye age, weight, length data by brood year and age group
01Appendix C.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	Aialik Lake sockeye age, weight, length data by brood year and age group
01Appendix D.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	Chenik Lake sockeye age, weight, length data by brood year and age group
01Appendix E.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	Mikfik Lake sockeye age, weight, length data by brood year and age group
01Appendix F.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	LCI adult salmon scale archive
01Appendix G.xls	C:\REPORTS\SALMON\AWL\2001	Excel 2000	Inventory of LCI salmon AWL data, 1983-2001