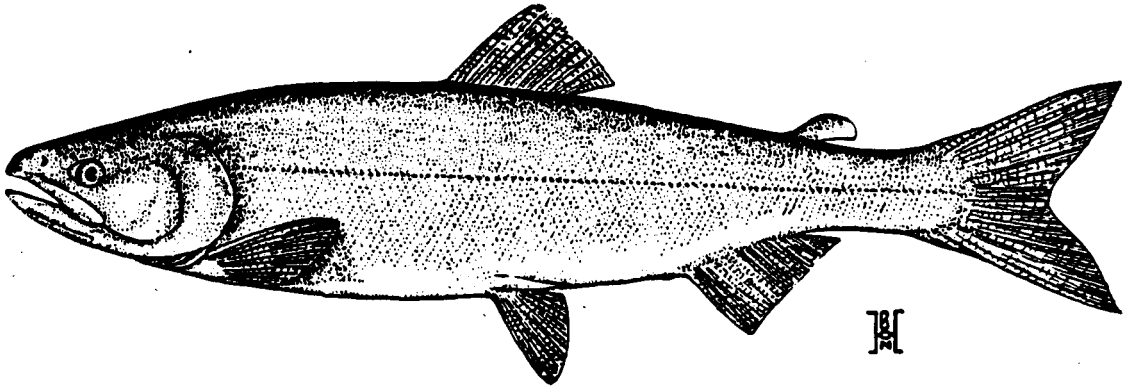
Data: Abundance, Age, Sex, and Size of Sockeye Salmon Catches and Escapements in Southeast Alaska in 1990

Prepared by
Melinda L. Rowse
and
Scott A. McPherson



Alaska Department of Fish and Game
Division of Commercial Fisheries
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AUTHORS

Melinda L. Rowse was a Southeast Alaska Region Fishery Biologist in charge of reporting sockeye salmon catch and escapement and Yakutat Area salmon catch and escapement, and of the northern Southeast Alaska catch sampling program for the Alaska Department of Fish and Game, Division of Commercial Fisheries, P.O. Box 240020, Douglas, AK 99824-0020. Her present address is: Point No Point Treaty Council, 7999 NE Salish Lane, Kingston, WA, 98346.

Scott A. McPherson is a Southeast Alaska Region Fishery Biologist in charge of sockeye catch and escapement reporting and Lynn Canal sockeye salmon run reconstruction for the Alaska Department of Fish and Game, Division of Commercial Fisheries, P.O. Box 240020, Douglas, AK 99824-0020.

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INTRODUCTION

Commercial harvesting of sockeye salmon (*Oncorhynchus nerka*) began in Southeast Alaska during the 1880's. Catches, excluding Yakutat, peaked early in the history of the fishery, averaging 2,400,000 sockeye salmon annually between 1910 and 1919 (Eggers and Dean 1987). Several periods of sharp decline in catches in the region were experienced over the next 60 years (Figure 1). From 1970 through 1979 annual catches averaged only 642,000 fish. Catches sharply increased from that level during the 1980's, averaging over 1,200,000 fish.

Estimation of basic population attributes are essential to sound management. Age composition provides a baseline for stock contribution estimates, brood year returns, and exploitation rates. Size data can be used to monitor growth parameters, environmental variability, and gear selectivity. Age and size data are invaluable in forecasting future returns. Migratory timing data forms the basis for inseason forecasting of run strength and detection of interannual shifts in run timing. A comprehensive sampling program to estimate population attributes of sockeye salmon in Southeast Alaska has been operated since 1982 (McGregor 1983; McGregor et al. 1984; McGregor and McPherson 1986; McPherson and McGregor 1986; McPherson et al. 1988a, 1988b, 1988c, 1988d, 1990a, 1990b; Rowse and McPherson 1991, *in press*). The feasibility of this program was tested in 1981 for selected fisheries and escapements and is reported in McGregor and Van Alen (1987).

The purpose of this investigation was to tabulate and summarize data on the numbers, age, sex, and size compositions of sockeye salmon in the harvest and escapement in Southeast Alaska in 1990. This summarization adds another year to the databases that were begun in 1981 and 1982.

STUDY AREA AND DESCRIPTION OF FISHERIES

The study area consists of outside coastal waters of Southeast Alaska extending south from Cape Suckling to Cape Fairweather and both inside and outside waters extending south from Cape Fairweather to Dixon Entrance (Figure 2). The area is divided into 16 coastal districts, 101 through 116, and 7 offshore districts: 152, 154, 156, 157, 181, 189, and 191. Inshore district net fisheries and escapements in the Yakutat Management Area are not presented in this report.

Sockeye salmon are taken by both U.S. and Canadian fishermen. Canadian fishermen harvest fish in the waters of two transboundary rivers, that originate in Canada and empty into saltwater in the U.S.: the Taku River which flows from Canada into District 111, and the Stikine River which flows into District 108. Stocks in these rivers are managed separately by each government under agreed harvest allocations for each country and an overall escapement goal. More than 100 U.S. rivers or streams and associated lakes are known to produce sockeye salmon in Southeast Alaska.

Commercial, sport, subsistence and personal use fisheries operate throughout the region. In 1990 U.S. commercial gillnet harvests of salmon occurred in Districts 101, 106, 107, 108, 111, and 115. Canadian gillnet fisheries operated in the lower Canadian portions of the Taku and Stikine Rivers, and in the upper Stikine River. Purse seine fisheries are operated only in U.S. waters; they harvested sockeye salmon in Districts 101 through 107, 109, 110, and 112 through 114. The troll fleet operated in U.S. waters throughout the region. The Metlakatla Indian Community operated gillnet, purse seine, and troll fisheries within 3,000 ft of the Annette Island shoreline in District 101, Subdistricts 24, 26, 28, and 42, as well as a small floating fish trap fishery in Subdistrict 101-28. Sport fishing occurred throughout Southeast Alaska, primarily near population centers. Subsistence fishing was allowed at many sites in Southeast Alaska, primarily near the mouths of rivers and streams. A small personal use fishery was permitted on the Taku River in 1990.

Of the six types of gear used to harvest sockeye salmon in Southeast Alaska, commercial purse seine and gillnet fleets currently account for the vast majority of the harvest. Lesser numbers of fish are harvested commercially with troll gear and fish traps. These fisheries harvest mixed stocks of sockeye salmon, as well as other species. Subsistence and sport fisheries in Southeast Alaska, although minor compared to commercial harvests, exploit some sockeye stocks at high rates.

SOCKEYE SALMON LIFE HISTORY

Two types of sockeye salmon life cycles occur in Southeast Alaska, and it is important to understand them in order to interpret the age composition data. Most sockeye salmon in Southeast Alaska spawn in lakes, or streams which flow into lakes. Eggs are generally deposited in the gravel from July through December and incubate over the winter (from 80 to 140 days; Forester 1968), and fry emerge the following spring. Fry rear in the main body of the lake where they spend most of their freshwater life. Lake rearing usually lasts 1-2 years, but may extend to 4 years. After a final spring in the lake, the fry emigrate and move downriver, usually in May. Juvenile salmon adjust to salt water in estuarine habitat, and then migrate to marine waters. These sockeye salmon juveniles spend from 1 to 4 years in the North Pacific Ocean before returning to spawn. This is the "lake-type" life cycle.

A lesser-known alternative life cycle has been observed in the Pacific Rim (Soviet Union, British Columbia, and Alaska) for a small number of sockeye salmon stocks (Forester 1968; Bugaev 1987; Birtwell et al. 1987; Wood et al. 1987; McPherson 1988d). The life cycle of these stocks does not include spawning or rearing in a lake. Spawning occurs in rivers and associated tributary streams, typically in areas where groundwater upwells through gravel beds. Fry rear in sloughs, pools, and tributaries along the river. Some of these fry migrate to sea after rearing for only a few months, i.e., they outmigrate at age-0. or the same year as emergence. Most of the remaining fry migrate to sea at age-1., i.e., after rearing in the river habitat for 1 year. The marine residence for river-type progeny is similar to that of lake-type.

The average life cycle for river-type fish is shorter because freshwater residence is usually one year less. Upwelling groundwater is warmer than inlet-stream water and emergence is probably earlier in these areas. Thus, fry hatch and begin to feed earlier than sockeye fry in a lake environment. Age-0. fry rear in river delta areas much more extensively than their age-1. siblings and lake-type fry (Birtwell et al. 1987). These areas are often warmer and extremely food rich, which allows fish to grow large enough in one spring to outmigrate at age-0. Outmigration timing for age-0. fish was reported, by both Birtwell et al. (1987) for the Fraser River and Murphy et al. (1989) for the Taku River, to be about 1 month later than age-1. and -2. fish.

River-type sockeye salmon are important contributors to fisheries in some areas of Southeast Alaska. River-type spawning stocks have been well documented at various locations in the Stikine (Wood et al. 1987) and Taku Rivers (McGregor and Jones 1989), as well as for the Chilkat, Lace, and Gilkey Rivers which flow into Lynn Canal (McPherson et al. 1988d; McPherson and Jones 1986). All of these rivers are glacial. However, Hasselborg River, located on Admiralty Island, was surveyed in 1989 and found to have 83% age-0. fish returning to spawn. This is the first documentation in Southeast Alaska of such a high proportion of age-0. fish from an island, clearwater system. The river-type stocks in the Taku and Stikine Rivers comprise over 50% of the total inriver runs in some years (PSC 1992). The river-type stocks in Lynn Canal comprise 3-7% of the catch in District 115.

METHODS

Abundance Data

Catch

Alaskan commercial catch data presented in this report were compiled by the Division of Commercial Fisheries, Alaska Department of Fish and Game (ADF&G), and originated from individual sales receipts and fish tickets tabulated as of 22 August, 1991. Catch data were edited for data entry and recording errors. Because embedded errors or additions are sometimes found at a later date, more recent catch summaries may show minor differences from those given in this report. Catch data for Canadian commercial and test fisheries on the Taku and Stikine Rivers were obtained from the Canadian Department of Fisheries and Oceans (PSC 1992). Catches were assigned to a statistical week, which begins at 00:01 AM each Sunday and ends the following Saturday at midnight; statistical weeks are numbered sequentially beginning with the week encompassing the first Sunday in January. Inclusive dates for 1990 statistical weeks are shown in Appendix A.1.

Escapement

Several methods were used to estimate total escapements to Southeast Alaska systems in 1990. Weirs were operated at 8 Alaskan and 5 Canadian sites. A mark-recapture tagging program was used to estimate the total Taku River escapement (PSC 1992). Sockeye salmon were captured in fish wheels at Canyon Island (5 km from the Canadian border) and tagged. Tagged fish were recovered in the Canadian commercial and test gillnet fisheries, and tagged to untagged ratios were used to derive an escapement estimate. McDonald Lake escapement was estimated by expanding foot survey counts to a total estimate based on correlations between stream life, foot survey data, and final weir counts in previous years (Tim Zadina, Alaska Department of Fish and Game, F.R.E.D., Ketchikan, personal communication). The Stikine River escapement was estimated by applying migratory timing data from inriver test fishery CPUE data to commercial catch stock composition estimates generated by egg diameter analyses (PSC 1992). A Petersen mark-recapture estimate was made for the escapement into Ford Arm Lake (Leon Shaul, Alaska Department of Fish and Game, Commercial Fisheries Division, Douglas, personal communication). Aerial, foot, and boat surveys provided the maximum daily escapement counts for most of the other important sockeye salmon systems in the region; these daily counts should only be considered partial or relative indicators of escapement magnitude as they do not represent total escapements.

Age, Sex, and Size Data

Sockeye salmon were sampled for scales, sex, and length, from both commercial catches and selected escapements. Age, sex, and length compositions were estimated for each district's catch by gear-type, and for each sampled escapement.

Scales

Scales were taken from the 'preferred area' of the fish (INPFC 1963). Scales were mounted on gummed cards and impressions made in cellulose acetate (Clutter and Whitesel 1956). Examination of scales provided ages for individual fish. Scales were magnified to 70X on a microfiche reader and ages were recorded in European notation: numerals preceding the decimal refer to the numbers of freshwater annuli, numerals following the decimal are the number of marine annuli, and the total age is the sum of these two numbers plus one. Ageing criteria followed from those described by Mosher (1968).

Sex Determination

Sex determination was based on examination of either gonads or external morphological features such as kipe development, belly shape, trunk depth, and jaw shape. Accuracy of sex determination was evaluated in 1987 by examining 4,923 sockeye salmon from commercial catches throughout the region and season (K. Pahlke, Alaska Department of Fish and Game, Commercial Fisheries Division, Douglas, personal

communication). Fish were first sexed by examining external morphological characteristics. Gonads were then examined by slitting open the belly cavity. Accuracy was 94% for the entire sample. It is believed that the accuracy of sex determination at weirs or on the spawning grounds is even higher because secondary maturation characteristics are further developed at these locations.

Length Measurement

Fish length was measured from the middle of the eye to the fork of the tail (MEF) and was recorded to the nearest 1 mm. However, post-orbit to hypural plate measurements (POH) were taken for escapements to Little Trapper and Little Tatsamenie Lakes in the Taku River drainage and to Tahltan Lake in the Stikine River drainage. POH length measurements from Taku River fish were converted to middle of the eye to fork of the tail (MEF) measurements according to the following equation developed from lengths taken from 219 sockeye salmon caught in the Canadian commercial fishery in the Taku River in 1990:

$$MEF = 1.111 * (POH) + 20.465 \text{ mm} \quad (1)$$

Length measurements from Stikine River fish were converted to MEF measurements according to equation (2), which is one of seven length relationships developed from 820 sockeye salmon commercially caught in Southeast Alaska in 1985 (Pahlke 1989).

$$MEF = 1.097 * (POH) + 19.50277 \quad (2)$$

Catch Sampling

All districts were sampled in which gillnet catches occurred, except District 107 where only 32 fish were harvested. Purse seine catches were sampled in all districts that recorded catches, except Districts 105 and 106. Sport fish, subsistence, and personal use harvests were not sampled because of the small magnitude of the harvests and the logistic difficulties involved in obtaining samples.

Age and sex compositions of salmon in the catches were computed for each fishery sampled. Sampling goals were to collect sufficient samples to estimate the proportion of each age class to within ± 5 percentage points 90% of the time in each stratum based on the standard binomial formulae (Cochran 1977; Appendix A.2). A general goal of 600 or 700 fish per week or year was met for each strata in most of the major harvest districts. Sampling was structured by subdistricts in District 106 because catches were made in widely separated geographic areas and at different times of the season.

Escapement Sampling

Escapement samples were collected either in weir traps or with dip nets, beach seines, and from carcasses. Fish wheels were used to collect Taku River escapement samples at Canyon Island. The variety of

collection methods used to sample escapements may have introduced some bias into age composition estimates. Escapement sampling goals included taking scales and recording sex and length measurements from 600 sockeye salmon in unweired systems and up to 2,000 sockeye salmon in weired systems.

Age and sex compositions were computed for each escapement area that was sampled. Most escapement locations were sampled over short periods of time, and these data were pooled into a single stratum. Some escapement areas were sampled throughout the season, e.g., weir locations, and were stratified by time. This enabled us to analyze temporal trends in age composition.

Age and Sex Composition

Totals from each sample period were summed to represent the age and sex composition over the entire season for each fishery and each escapement with a total estimate. When only partial escapement counts were available, a percentage breakdown of each sample by age and sex was tabulated. Standard errors of the age class proportions were calculated using standard binomial formulae, and standard errors for estimates expanded to abundance data were calculated to reflect finite population size (Cochran 1977) as follows:

$$\hat{SE}_{ij} = \sqrt{\left[\frac{(\hat{P}_{ij})\ (1-\hat{P}_{ij})}{n_j - 1}\right] \cdot \left[1 - \frac{n_j}{C_j}\right]} \quad , \tag{3}$$

where: i = age class,
j = time period,
$\hat{P}_{ij}$ = estimated proportion of fish of age i in stratum j,
n_j = sample size for stratum j, and
C_j = catch or escapement of fish in stratum j.

The standard errors for the total season commercial catch or escapement were estimated by weighing the standard error for each sampling period by the total commercial catch (or escapement) during the same sample period as follows:

$$\hat{SE}_{i.} = \sqrt{\frac{\sum_{1}^{j} (\hat{SE}_{ij})^2\ C_j^2}{C_.^2}} \quad , \tag{4}$$

where: $C_.$ = total-season catch or escapement.

Changes in age composition among strata were tested for significance using a test to compare two proportions (Zar 1984).

Length Composition

Length data, mean lengths, and their standard errors were calculated for each sex and age class within sampling periods for each fishery and escapement from which we collected fish. Sampling goals from the catch were to collect sufficient numbers from each stratum to estimate the average length of each major (greater than 10% of the catch) age class to within ± 5 percentage points 90% of the time. A general sampling goal of 180 lengths per week was established for all districts, except in the District 115 gillnet fishery where stock-specific length composition estimates were desired and 300 lengths were taken. Weighted mean length and the standard error for the entire season was calculated for each age class. A Z-test was used to identify significant changes in average length within age classes among strata (Zar 1984). All escapement samples included length measurements; these measurements are valuable during scale ageing because scales from escapement samples are often resorbed.

Weight Composition

Average weight data was obtained from the ADF&G fish ticket reporting system. Average weights were calculated for each statistical week by dividing the total pounds reported by the total number of fish reported.

Migratory Timing

Migratory timing, i.e., abundance as a function of time, was the primary basis for management decisions which regulated time and location of fishery openings to selectively harvest stocks. Migratory timing statistics for the harvest of sockeye salmon in the major net fisheries and the weired escapements were calculated, following the methods of Mundy (1979, 1982), to provide an index of relative timing.

To calculate mean and variance, the empirical migratory time density was defined to be the time series of daily or weekly proportions, P_t, such that

$$P_t = \frac{n_t}{N} \quad , \tag{5}$$

where: n_t = abundance on time interval t, and

N = total annual abundance.

For a migration over a time interval of n days or weeks, the mean of t was

$$\bar{t} = \sum_{t=1}^{n} t\,(P_t) \quad , \tag{6}$$

and its variance was

$$S_t^2 = \sum_{t=1}^{n} (t - \bar{t})^2\, P_t \quad . \tag{7}$$

The mean daily weir escapements and catches were calculated.

RESULTS

Harvest Data

Age, Sex, and Size Data

Gillnet Catch. Detailed age and length compositions, and associated statistics, of sockeye salmon in the sampled gillnet catches are presented in Appendix B. Five- and 6-year-old sockeye salmon from the 1985 (27%) and 1986 (60%) broods were the dominant year classes in the gillnet fisheries (Table 10). Age-1.3 fish dominated the catches (45-78%) from all districts except District 115, where age-2.3 fish were most abundant (44%). The percentages of age-1.3 fish in catches from all districts were about average except in District 115. Age-0. sockeye salmon were most abundant in Districts 111 and 115. Age 2. sockeye salmon were more common in Districts 115 (59%), 101 (38%), and 106 (30%), than in Districts 108 and 111, where they comprised about 10% of the catches.

Few differences in the average lengths of sockeye salmon existed between gillnet fisheries. Overall, fish taken in the Districts 108, 111, and 115 were 7 mm to 14 mm longer than fish taken in Districts 101, 106, and in the Taku River Canadian commercial harvests. Overall, the largest females were taken in District 115 (574 mm), and the largest males were taken in District 111 (586 mm).

Purse Seine Catch. Detailed age and length compositions, and associated statistics, of the purse seine catches are presented in Appendix C. Overall, younger sockeye salmon were taken in the purse seine fisheries than in the gillnet fisheries. Age-1.2 (52%), and -1.3 fish (31%), comprised the majority of the

overall purse seine catch. The percentage of age-1.2 fish was near the 1982 to 1989 average in most districts except District 104, where it was 20% above the average of 38%. Age-1.3 fish in Districts 101, 102, 109, 110, and 112, age-2.2 fish in District 113, and age-2.3 fish in District 114 were the most abundant age classes in other districts.

Differences in average lengths of sockeye salmon were apparent among the purse seine fisheries in 1990. The average length, overall, ranged from 495 mm in District 113 to 582 mm in District 114. The largest males were observed in District 114 (597 mm), and the largest females were observed in District 110 (571 mm).

Escapement Data

Detailed age compositions, length compositions, and daily weir counts, and standard errors are presented in Appendix F.

Abundance Estimates

The largest sockeye escapement in Southeast Alaska was 118,337, estimated for McDonald Lake. Large spawning escapements to the Taku River, 92,795 fish; Chilkoot Lake, 76,099 fish; Redoubt Lake, 72,871 fish, and Chilkat Lake, 60,231 fish, were estimated. The escapements for McDonald Lake and the Taku River were average, compared to the recent 5-year average, and the escapements for Chilkoot and Chilkat Lake were within the escapement goal ranges established for those systems. The escapement for Redoubt Lake was the largest ever recorded for that lake and over 7 times the 8-year average. The escapement estimate for the Stikine River, 37,422 fish, was 36% below the 1985-89 average.

Age, Sex, and Size Composition

Five-year-old fish, primarily age 1.3, dominated in 71% of the 38 escapement collections. This was a smaller percentage than in 1989 when 5-year-old fish dominated 84% of the escapement collections (Rowse and McPherson *in press*). In the remaining 11 systems, 3- and 4-year-old fish were each the most abundant year classes in 4 systems. Six-year-old fish predominated in the Auke, Chilkoot, and Chilkat Lake systems of northern Southeast Alaska.

Age-1. fish constituted the most abundant freshwater age class in 76% of the escapement collections. This was similar to escapements from 1987 through 1989. Age-2. fish dominated in 18% of the escapement systems, all of which were lake systems. Age-0. fish were present in collections from northern Southeast Districts 109-115, comprising an average of only 8% of the fish in the samples, and they were almost nonexistent in southern Southeast Alaska with the exception of the Beaver Falls Hatchery stock.

Age-.3 fish were the most prevalent ocean age in 30 (81%) of the 38 escapement samples. Comparatively, age-.3 fish were the majority in 92% of the samples in 1989, 54% in 1988, 78% in 1987, and 64% in 1986). Age-.2 fish were the most prevalent ocean age in 6 escapement collections. Age-1. fish, commonly referred to as "jacks", dominated escapements to Klawock and Kutlaku Lakes. Ocean-age was older in escapements to northern Districts 109 to 115, which were composed of averages of 5% age-.1 fish and 25% age-2. fish, compared to averages of 8% age-.1 and 36% age-.2 fish in southern Districts 101-108.

Differences in average lengths were observed among escapements. Overall, fish in southern Districts 101-108 averaged 522 mm compared to 534 mm in northern Districts 109-115, due primarily to the greater prevalence of age-.1 and -.2 fish in the south. Within individual age classes, however, fish in the southern districts were larger than in northern districts among all age classes except age-3.2, a relatively scarce age class. Among individual districts, average lengths for fish in District 101 aged 0.3, 1.2, 1.3, 2.2, 2.3, and 1.4 were longer than in any other district.

Migratory Timing

Weirs were operated at 13 locations to count sockeye salmon in Southeast Alaska and tributaries of the Taku and Stikine Rivers in western British Columbia. The mean dates of escapement to Nahlin River (13 July), and Auke Lake (16 July), were the earliest of the weired systems which operated over the duration of the runs. The mean dates of escapement at Chilkat Lake (19 August), and Little Tatsamenie Lake (6 September), were the latest. The Tahltan Lake escapement was the most compressed (SD=6 d), while the Chilkat Lake escapement was the most dispersed (SD=34 d).

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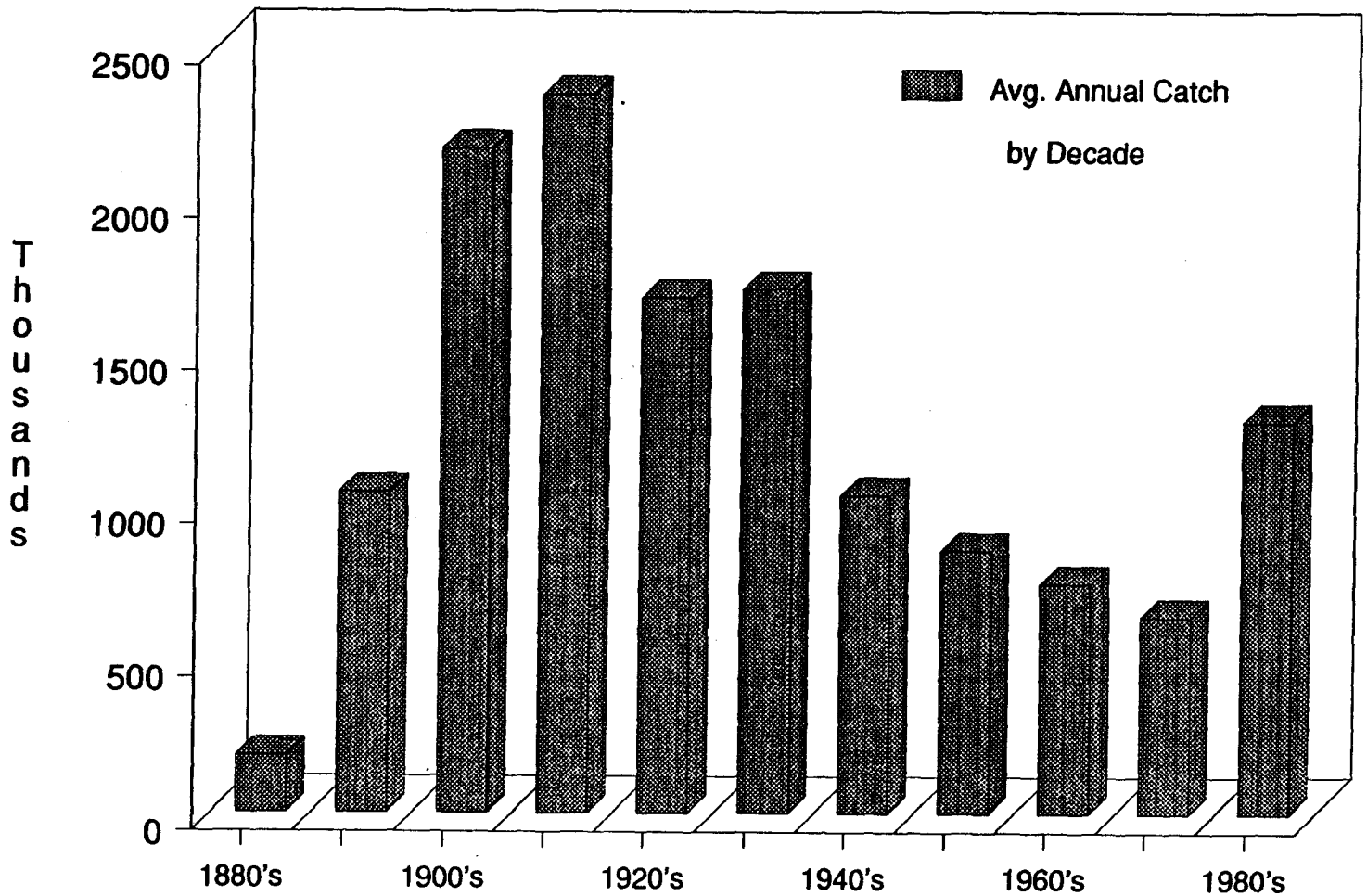

Figure 1. Average annual decade sockeye catch in Southeast Alaska, 1880-1989.

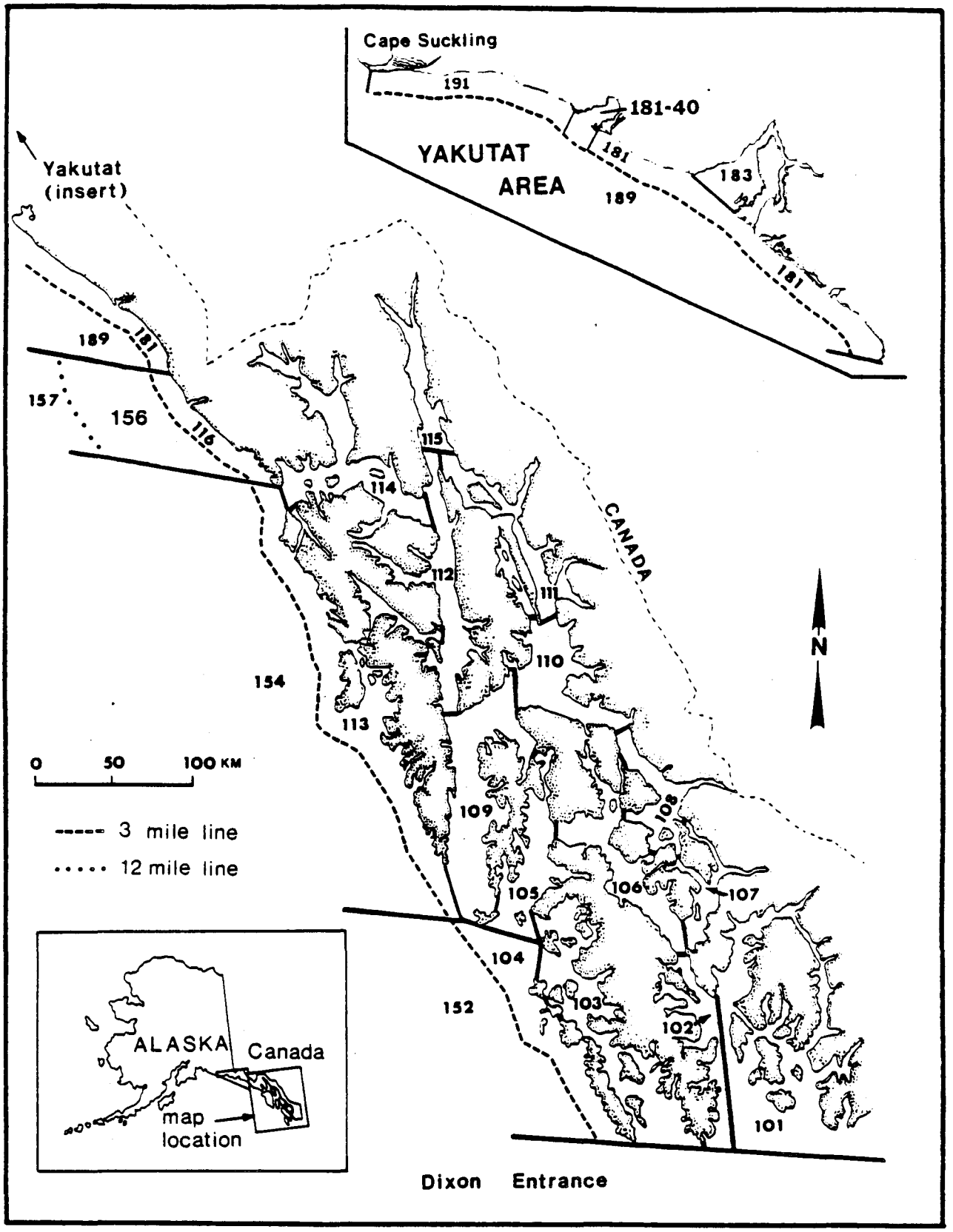

Figure 2. Southeast Alaska statistical fishing districts.

APPENDICES

Appendix A.1. Numbered calendar weeks, i.e., statistical weeks, used to report commercial catches, 1990.

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

Appendix A.2. Sample size required for approximate 90% or 95% simultaneous confidence intervals with precision ±5% for age compositions[a]

	Number of Age Classes					
	90% Confidence			95% Confidence		
Population Size	2	3	4+	2	3	4+
500	176	218	224	218	251	253
1000	214	278	288	278	335	338
1500	230	306	318	306	377	381
2000	239	323	336	323	402	407
2500	245	334	347	334	419	424
3000	249	341	356	341	431	436
3500	252	347	362	347	440	445
4000	254	351	366	351	447	452
4500	256	355	370	355	453	458
5000	257	357	373	357	457	463
6000	259	362	378	362	464	470
7000	261	365	381	365	469	475
8000	262	367	384	367	473	479
9000	263	369	386	369	476	483
10000	264	370	388	370	479	485
15000	266	375	393	375	487	493
20000	267	377	395	377	491	497
25000	268	379	397	379	493	500
30000	269	380	398	380	495	501
35000	269	380	398	380	496	503
40000	269	381	399	381	497	504
45000	269	381	399	381	497	504
50000	270	382	400	382	498	505
60000	270	382	400	382	499	506
70000	270	383	401	383	499	506
80000	270	383	401	383	500	507
90000	270	383	401	383	500	507
100000	270	383	401	383	500	507
Infinite	271	385	403	385	503	510

[a] Sample sizes for infinite population size computed from $n_o=(c/d)^2$, where d is the precision (= .05, here) and $c = Z_{\alpha/2v}[(1/m)(1-1/m)]^{.5}$; for 2 classes, v=1 and m=2; for 3 classes, v=2 and m=2; for 4+ classes, v=3 and m=3 (Angers, 1989; see also Thompson, 1987). Sample sizes for finite population sizes are computed from $n = n_o/[1 + (n_o -1)/N]$, where N is the finite population size (Cochran, 1977).

Appendix B.1. Age composition of sockeye salmon in the District 101 gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class													
	1987		1986			1985			1984			1983		
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)														
Male														
Sample Size	2		4	28		1	54	68		29				186
Percent	0.4		0.8	5.3		0.2	10.3	13.0		5.5				35.5
Std. Error	0.3		0.4	0.9		0.2	1.3	1.4		1.0				2.0
Number	27		54	378		13	729	918		391				2,510
Female														
Sample Size			5	41			104	125	1	62				338
Percent			1.0	7.8			19.8	23.9	0.2	11.8				64.5
Std. Error			0.4	1.1			1.7	1.8	0.2	1.4				2.0
Number			67	553			1,405	1,687	13	837				4,562
All Fish														
Sample Size	2		9	69		1	158	193	1	91				524
Percent	0.4		1.7	13.2		0.2	30.2	36.8	0.2	17.4				100.0
Std. Error	0.3		0.5	1.4		0.2	1.9	2.0	0.2	1.6				
Number	27		121	931		13	2,134	2,605	13	1,228				7,072
Statistical Week 26 (June 24 - 30)														
Male														
Sample Size			1	29			60	81		39				210
Percent			0.2	5.4			11.3	15.2		7.3				39.4
Std. Error			0.2	0.9			1.3	1.5		1.1				2.0
Number			13	381			789	1,065		513				2,761
Female														
Sample Size			3	45			79	154		42				323
Percent			0.6	8.4			14.8	28.9		7.9				60.6
Std. Error			0.3	1.2			1.5	1.9		1.1				2.0
Number			39	592			1,039	2,025		552				4,247
All Fish														
Sample Size			4	74			139	235		82				534
Percent			0.7	13.9			26.0	44.0		15.4				100.0
Std. Error			0.4	1.4			1.8	2.1		1.5				
Number			52	973			1,828	3,090		1,078				7,021
Statistical Week 27 (July 1 - 7)														
Male														
Sample Size	1			32		1	68	115		46				263
Percent	0.2			6.2		0.2	13.2	22.4		8.9				51.2
Std. Error	0.2			1.0		0.2	1.4	1.8		1.2				2.1
Number	14			461		14	980	1,657		663				3,789
Female														
Sample Size				32			75	101		43				251
Percent				6.2			14.6	19.6		8.4				48.8
Std. Error				1.0			1.5	1.7		1.2				2.1
Number				461			1,081	1,455		620				3,617
All Fish														
Sample Size	1			64		1	143	216		89				514
Percent	0.2			12.5		0.2	27.8	42.0		17.3				100.0
Std. Error	0.2			1.4		0.2	1.9	2.1		1.6				
Number	14			922		14	2,061	3,112		1,283				7,406
Statistical Week 28 (July 8 - 14)														
Male														
Sample Size				13			73	32		17				135
Percent				4.7			26.4	11.6		6.2				48.9
Std. Error				1.3			2.6	1.9		1.4				3.0
Number				355			1,993	874		464				3,686
Female														
Sample Size			1	8			86	28		18				141
Percent			0.4	2.9			31.2	10.1		6.5				51.1
Std. Error			0.4	1.0			2.7	1.8		1.5				3.0
Number			27	218			2,348	765		492				3,850
All Fish														
Sample Size			1	21			159	60		35				276
Percent			0.4	7.6			57.6	21.7		12.7				100.0
Std. Error			0.4	1.6			2.9	2.4		2.0				
Number			27	573			4,341	1,639		956				7,536
Statistical Week 29 (July 15 - 21)														
Male														
Sample Size			2	46	1		117	49	1	48				264
Percent			0.4	8.2	0.2		20.9	8.8	0.2	8.6				47.2
Std. Error			0.2	1.1	0.2		1.7	1.1	0.2	1.1				2.0
Number			25	577	13		1,467	614	13	602				3,311
Female														
Sample Size	1		3	19			178	46		48				295
Percent	0.2		0.5	3.4			31.8	8.2		8.6				52.8
Std. Error	0.2		0.3	0.7			1.9	1.1		1.1				2.0
Number	13		38	238			2,233	576		602				3,700
All Fish														
Sample Size	1		5	65	1		295	96	1	96				560
Percent	0.2		0.9	11.6	0.2		52.7	17.1	0.2	17.1				100.0
Std. Error	0.2		0.4	1.3	0.2		2.0	1.5	0.2	1.5				
Number	13		63	815	13		3,700	1,203	13	1,204				7,024

-continued-

Appendix B.1. (page 2 of 3)

	Brood Year and Age Class													
	1987		1986			1985			1984			1983		
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 30 (July 22 - 28)														
Male														
Sample Size		1		35			99	55		56				246
Percent		0.2		7.0			19.8	11.0		11.2				49.1
Std. Error		0.2		1.1			1.7	1.4		1.4				2.2
Number		28		966			2,734	1,519		1,546				6,793
Female														
Sample Size				23			143	49	1	39				255
Percent				4.6			28.5	9.8	0.2	7.8				50.9
Std. Error				0.9			2.0	1.3	0.2	1.2				2.2
Number				635			3,948	1,353	28	1,077				7,041
All Fish														
Sample Size		1		58			243	104	1	95				502
Percent		0.2		11.6			48.4	20.7	0.2	18.9				100.0
Std. Error		0.2		1.4			2.2	1.8	0.2	1.7				
Number		28		1,601			6,710	2,872	28	2,623				13,862
Statistical Week 31 (July 29 - August 4)														
Male														
Sample Size			2	24			96	47		53				222
Percent			0.4	4.8			19.2	9.4		10.6				44.5
Std. Error			0.3	0.9			1.7	1.3		1.3				2.2
Number			34	403			1,614	790		891				3,732
Female														
Sample Size				29			151	44		52		1		277
Percent				5.8			30.3	8.8		10.4		0.2		55.5
Std. Error				1.0			2.0	1.2		1.3		0.2		2.2
Number				487			2,538	740		874		17		4,656
All Fish														
Sample Size			2	53			247	91		105		1		499
Percent			0.4	10.6			49.5	18.2		21.0		0.2		100.0
Std. Error			0.3	1.3			2.2	1.7		1.8		0.2		
Number			34	890			4,152	1,530		1,765		17		8,388
Statistical Week 32 (August 5 - 11)														
Male														
Sample Size				50			120	30		47				247
Percent				8.1			19.4	4.8		7.6				39.8
Std. Error				1.1			1.5	0.8		1.0				1.9
Number				925			2,221	555		870				4,571
Female														
Sample Size				49	1		218	53		52				373
Percent				7.9	0.2		35.2	8.5		8.4				60.2
Std. Error				1.1	0.2		1.9	1.1		1.1				1.9
Number				907	19		4,034	981		962				6,903
All Fish														
Sample Size				99	1		338	83		99				620
Percent				16.0	0.2		54.5	13.4		16.0				100.0
Std. Error				1.4	0.2		1.9	1.3		1.4				
Number				1,832	19		6,255	1,536		1,832				11,474
Statistical Week 33 (August 12 - 18)														
Male														
Sample Size				52			114	28	1	33				228
Percent				10.2			22.3	5.5	0.2	6.4				44.5
Std. Error				1.3			1.8	1.0	0.2	1.1				2.1
Number				914			2,004	492	17	580				4,007
Female														
Sample Size		1		52			172	36	1	22				284
Percent		0.2		10.2			33.6	7.0	0.2	4.3				55.5
Std. Error		0.2		1.3			2.0	1.1	0.2	0.9				2.1
Number		18		914			3,023	633	17	387				4,992
All Fish														
Sample Size		1		104			286	64	2	55				512
Percent		0.2		20.3			55.9	12.5	0.4	10.7				100.0
Std. Error		0.2		1.7			2.1	1.4	0.3	1.3				
Number		18		1,828			5,027	1,125	34	967				8,999
Statistical Week 34 (August 19 - 25)														
Male														
Sample Size		1		53			85	14		43	1	1		198
Percent		0.2		10.2			16.4	2.7		8.3	0.2	0.2		38.2
Std. Error		0.2		1.3			1.5	0.7		1.1	0.2	0.2		2.0
Number		9		501			805	132		407	9	9		1,872
Female														
Sample Size				85			168	28		38			1	320
Percent				16.4			32.4	5.4		7.3			0.2	61.8
Std. Error				1.5			1.9	0.9		1.1			0.2	2.0
Number				804			1,588	265		359			9	3,025
All Fish														
Sample Size		1		138			253	42		81	1	1	1	518
Percent		0.2		26.6			48.8	8.1		15.6	0.2	0.2	0.2	100.0
Std. Error		0.2		1.8			2.1	1.1		1.5	0.2	0.2	0.2	
Number		9		1,305			2,393	397		766	9	9	9	4,897

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	Brood Year and Age Class													
	1987		1986			1985			1984			1983		
	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 35 (August 26 - Sept. 1)														
Male														
Sample Size				36			81	14		41		1		173
Percent				9.6			21.5	3.7		10.9		0.3		46.0
Std. Error				1.3			1.8	0.8		1.4		0.2		2.2
Number				146			329	57		167		4		703
Female														
Sample Size				41			102	10	1	48		1		203
Percent				10.9			27.1	2.7	0.3	12.8		0.3		54.0
Std. Error				1.4			2.0	0.7	0.2	1.5		0.2		2.2
Number				167			414	40	4	195		4		824
All Fish														
Sample Size				77			183	24	1	89		2		376
Percent				20.5			48.7	6.4	0.3	23.7		0.5		100.0
Std. Error				1.8			2.2	1.1	0.2	1.9		0.3		
Number				313			743	97	4	362		8		1,527
Statistical Weeks 36 - 38 (Sept. 2 - 22)														
Male														
Sample Size				13			28	4		25				70
Percent				9.1			19.6	2.8		17.5				49.0
Std. Error				2.1			2.9	1.2		2.8				3.6
Number				51			111	16		98				276
Female														
Sample Size				12			32	6		23				73
Percent				8.4			22.4	4.2		16.1				51.0
Std. Error				2.0			3.0	1.5		2.7				3.6
Number				47			125	24		91				287
All Fish														
Sample Size				25			60	10		48				143
Percent				17.5			42.0	7.0		33.6				100.0
Std. Error				2.8			3.6	1.8		3.4				
Number				98			236	40		189				563
Combined Periods (Percentages are weighted by period catches)														
Male														
Sample Size	3	2	9	411	1	2	995	537	2	477	1	2		2,442
Percent	<0.1	<0.1	0.1	7.1	<0.1	<0.1	18.4	10.1	<0.1	8.4	<0.1	<0.1		44.3
Std. Error	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	0.6	0.4	<0.1	0.4	<0.1	<0.1		0.7
Number	41	37	126	6,058	13	27	15,776	8,689	30	7,192	9	13		38,011
Female														
Sample Size	1	1	12	436	1		1,508	680	4	487		2	1	3,133
Percent	<0.1	<0.1	0.2	7.0	<0.1		27.7	12.3	0.1	8.2		<0.1	<0.1	55.7
Std. Error	<0.1	<0.1	0.1	0.3	<0.1		0.6	0.4	<0.1	0.4		<0.1	<0.1	0.7
Number	13	18	171	6,023	19		23,776	10,544	62	7,048		21	9	47,704
All Fish														
Sample Size	4	3	21	847	2	2	2,504	1,218	6	965	1	4	1	5,578
Percent	0.1	0.1	0.3	14.1	<0.1	<0.1	46.1	22.4	0.1	16.6	<0.1	<0.1	<0.1	100.0
Std. Error	<0.1	<0.1	0.1	0.5	<0.1	<0.1	0.7	0.6	<0.1	0.5	<0.1	<0.1	<0.1	
Number	54	55	297	12,081	32	27	39,580	19,246	92	14,253	9	34	9	85,769

Appendix B.2. Length composition of sockeye salmon in the District 101 gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class							
		1986		1985		1984		1983	
		0.3	1.2	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 25 (June 17 - 23)									
Male	Avg. Length		545	588	551		578		564
	Std. Error		5.0	6.1	4.9		12.8		4.3
	Sample Size		2	13	28		6		49
Female	Avg. Length		526	584	539		588		563
	Std. Error		10.9	5.9	4.4		5.8		4.6
	Sample Size		9	19	17		13		58
All Fish	Avg. Length		529	585	546		585		563
	Std. Error		9.2	4.3	3.5		5.6		3.2
	Sample Size		11	32	45		19		107
Statistical Week 26 (June 24 - 30)									
Male	Avg. Length		546	604	550		610		577
	Std. Error		7.9	4.7	3.3		8.3		4.0
	Sample Size		9	29	34		11		83
Female	Avg. Length	557	536	583	548		586		559
	Std. Error		4.4	5.2	2.6		7.6		2.7
	Sample Size	1	18	27	55		13		114
All Fish	Avg. Length	557	540	594	549		597		566
	Std. Error		4.0	3.7	2.0		6.0		2.4
	Sample Size	1	27	56	89		24		197
Statistical Week 27 (July 1 - 7)									
Male	Avg. Length		538	604	549		614		573
	Std. Error		4.8	7.0	8.2		7.6		5.8
	Sample Size		7	16	29		11		63
Female	Avg. Length		529	586	545		592		560
	Std. Error		7.7	4.6	3.5		4.5		3.7
	Sample Size		8	13	31		11		63
All Fish	Avg. Length		533	595	547		603		566
	Std. Error		4.6	4.6	4.3		4.9		3.5
	Sample Size		15	29	60		22		126
Statistical Week 28 (July 8 - 14)									
Male	Avg. Length		538	595	550		592		573
	Std. Error		9.4	4.4	13.8		10.9		6.1
	Sample Size		6	18	11		3		38
Female	Avg. Length	555	480	580	541		588		569
	Std. Error			4.1	10.6		22.4		5.6
	Sample Size	1	1	20	6		3		31
All Fish	Avg. Length	555	529	587	547		590		571
	Std. Error		11.4	3.2	9.5		11.2		4.2
	Sample Size	1	7	38	17		6		69
Statistical Week 29 (July 15 - 21)									
Male	Avg. Length		557	593	526	586	604		578
	Std. Error		8.7	4.0	12.1		9.4		4.8
	Sample Size		10	35	13	1	13		72
Female	Avg. Length		530	577	543		593		573
	Std. Error		9.0	3.7	8.2		7.4		3.8
	Sample Size		3	33	9		14		59
All Fish	Avg. Length		551	585	536	586	598		576
	Std. Error		7.5	2.9	8.0		5.9		3.1
	Sample Size		13	68	23	1	27		132
Statistical Week 30 (July 22 - 28)									
Male	Avg. Length		518	599	551		607		585
	Std. Error		12.4	6.1	7.5		8.2		5.7
	Sample Size		4	21	9		13		47
Female	Avg. Length		535	587	538		579		575
	Std. Error		2.9	3.5	6.2		12.4		3.8
	Sample Size		3	43	11		9		66
All Fish	Avg. Length		525	591	544		596		579
	Std. Error		7.6	3.1	4.9		7.5		3.3
	Sample Size		7	64	20		22		113

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Appendix B.3. Age composition of sockeye salmon in the District 101 Metlakatla gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class							
	1986		1985		1984		1983	
	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks	25 - 28		(June 17 - July 14)					
Male								
Sample Size	1	14	48	23		22	1	109
Percent	0.4	5.7	19.6	9.4		9.0	0.4	44.5
Std. Error	0.4	1.5	2.5	1.8		1.8	0.4	3.1
Number	34	481	1,649	790		756	35	3,745
Female								
Sample Size		14	63	33		25	1	136
Percent		5.7	25.7	13.5		10.2	0.4	55.5
Std. Error		1.5	2.8	2.2		1.9	0.4	3.1
Number		481	2,165	1,134		859	34	4,673
All Fish								
Sample Size	1	39	142	69		57	2	310
Percent	0.3	12.6	45.8	22.3		18.4	0.6	100.0
Std. Error	0.3	1.9	2.8	2.3		2.2	0.4	
Number	34	1,340	4,879	2,371		1,958	69	10,651
Statistical Week	29	(July 15 - 21)						
Male								
Sample Size		26	51	23		23		123
Percent		10.2	20.1	9.1		9.1		48.4
Std. Error		1.9	2.5	1.8		1.8		3.1
Number		549	1,077	486		485		2,597
Female								
Sample Size	1	11	84	19		16		131
Percent	0.4	4.3	33.1	7.5		6.3		51.6
Std. Error	0.4	1.2	2.9	1.6		1.5		3.1
Number	21	232	1,774	401		338		2,766
All Fish								
Sample Size	1	37	136	42		39		255
Percent	0.4	14.5	53.3	16.5		15.3		100.0
Std. Error	0.4	2.2	3.1	2.3		2.2		
Number	21	781	2,872	887		823		5,384
Statistical Week	30	(July 22 - 28)						
Male								
Sample Size		35	45	19	1	26		126
Percent		13.7	17.6	7.5	0.4	10.2		49.4
Std. Error		2.1	2.3	1.6	0.4	1.9		3.1
Number		934	1,199	507	27	694		3,361
Female								
Sample Size		21	75	9		24		129
Percent		8.2	29.4	3.5		9.4		50.6
Std. Error		1.7	2.8	1.1		1.8		3.1
Number		560	2,001	240		640		3,441
All Fish								
Sample Size		56	120	28	1	50		255
Percent		22.0	47.1	11.0	0.4	19.6		100.0
Std. Error		2.5	3.1	1.9	0.4	2.4		
Number		1,494	3,200	747	27	1,334		6,802
Statistical Week	31	(July 29 - August 4)						
Male								
Sample Size		33	50	13		32	1	129
Percent		12.5	19.0	4.9		12.2	0.4	49.0
Std. Error		2.0	2.4	1.3		2.0	0.4	3.0
Number		1,066	1,615	420		1,034	32	4,167
Female								
Sample Size		22	64	6		42		134
Percent		8.4	24.3	2.3		16.0		51.0
Std. Error		1.7	2.6	0.9		2.2		3.0
Number		711	2,067	194		1,356		4,328
All Fish								
Sample Size		55	114	19		74	1	263
Percent		20.9	43.3	7.2		28.1	0.4	100.0
Std. Error		2.5	3.0	1.6		2.7	0.4	
Number		1,777	3,682	614		2,390	32	8,495

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	Brood Year and Age Class							
	1986		1985		1984		1983	
	0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 32 (August 5 - 11)								
Male								
Sample Size	1	41	46	30	1	28		147
Percent	0.3	12.5	14.0	9.1	0.3	8.5		44.7
Std. Error	0.3	1.8	1.9	1.5	0.3	1.5		2.7
Number	17	694	780	508	17	474		2,490
Female								
Sample Size		38	80	18		46		182
Percent		11.6	24.3	5.5		14.0		55.3
Std. Error		1.7	2.3	1.2		1.9		2.7
Number		644	1,354	305		779		3,082
All Fish								
Sample Size	1	79	127	48	1	74		330
Percent	0.3	23.9	38.5	14.5	0.3	22.4		100.0
Std. Error	0.3	2.3	2.6	1.9	0.3	2.2		
Number	17	1,338	2,151	813	17	1,253		5,589
Statistical Week 33 (August 12 - 18)								
Male								
Sample Size		22	30	13	1	34		100
Percent		8.0	10.9	4.7	0.4	12.3		36.2
Std. Error		1.6	1.8	1.2	0.3	1.9		2.8
Number		226	308	134	10	350		1,028
Female								
Sample Size		32	77	18		49		176
Percent		11.6	27.9	6.5		17.8		63.8
Std. Error		1.8	2.6	1.4		2.2		2.8
Number		329	791	185		503		1,808
All Fish								
Sample Size		54	107	31	1	83		276
Percent		19.6	38.8	11.2	0.4	30.1		100.0
Std. Error		2.3	2.8	1.8	0.3	2.6		
Number		555	1,099	319	10	853		2,836
Statistical Weeks 34 - 38 (August 19 - Sept. 22)								
Male								
Sample Size		17	35	10		22		84
Percent		7.0	14.4	4.1		9.1		34.6
Std. Error		1.6	2.2	1.2		1.8		3.0
Number		285	585	168		369		1,407
Female								
Sample Size		29	72	23	1	33	1	159
Percent		11.9	29.6	9.5	0.4	13.6	0.4	65.4
Std. Error		2.0	2.8	1.8	0.4	2.1	0.4	3.0
Number		486	1,206	385	17	553	17	2,664
All Fish								
Sample Size		46	109	36	1	58	2	252
Percent		18.3	43.3	14.3	0.4	23.0	0.8	100.0
Std. Error		2.4	3.0	2.1	0.4	2.6	0.5	
Number		771	1,825	603	17	972	34	4,222
Combined Periods (Percentages are weighted by period catches)								
Male								
Sample Size	2	188	305	131	3	187	2	818
Percent	0.1	10.2	17.4	7.2	0.1	10.0	0.2	45.2
Std. Error	0.1	0.7	1.0	0.7	0.1	0.7	0.1	1.2
Number	51	4,235	7,213	3,013	54	4,161	67	18,795
Female								
Sample Size	1	167	515	126	1	235	2	1,047
Percent	0.1	8.3	27.3	6.8	<0.1	12.1	0.1	54.8
Std. Error	<0.1	0.7	1.1	0.7	<0.1	0.8	0.1	1.2
Number	21	3,443	11,358	2,844	17	5,028	51	22,762
All Fish								
Sample Size	3	366	855	273	4	435	5	1,941
Percent	0.2	18.3	44.8	14.4	0.2	21.8	0.3	100.0
Std. Error	0.1	0.9	1.2	0.8	0.1	1.0	0.1	
Number	72	8,056	19,708	6,354	71	9,583	135	43,979

Appendix B.4. Length composition of sockeye salmon in the District 101 Metlakatla gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class							
		1986		1985		1984		1983	
		0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks 25 - 28 (June 17 - July 14)									
Male	Avg. Length	570	568	607	556		581		582
	Std. Error		25.3	7.0	8.1		13.8		6.6
	Sample Size	1	4	10	7		9		31
Female	Avg. Length		548	587	548		585		569
	Std. Error		9.8	4.6	6.2		7.6		4.2
	Sample Size		6	19	14		6		45
All Fish	Avg. Length	570	535	592	552		589		572
	Std. Error		9.3	3.9	4.1		9.2		3.5
	Sample Size	1	19	49	33		21		123
Statistical Week 29 (July 15 - 21)									
Male	Avg. Length		511	610	540		585		570
	Std. Error		10.8	4.9	10.0		11.8		6.9
	Sample Size		8	20	14		8		50
Female	Avg. Length	580	523	587	530		599		577
	Std. Error		3.3	3.6	7.6		9.0		4.3
	Sample Size	1	3	39	9		8		60
All Fish	Avg. Length	580	515	595	536		592		574
	Std. Error		7.9	3.2	6.7		7.4		3.9
	Sample Size	1	11	59	23		16		110
Statistical Week 30 (July 22 - 28)									
Male	Avg. Length		521	604	530		601		570
	Std. Error		8.6	7.4	10.2		8.0		7.5
	Sample Size		10	16	7		7		40
Female	Avg. Length		516	575	543		550		554
	Std. Error		6.5	6.0	3.3		11.5		5.6
	Sample Size		8	17	3		7		35
All Fish	Avg. Length		519	589	534		576		562
	Std. Error		5.5	5.4	7.3		9.8		4.8
	Sample Size		18	33	10		14		75
Statistical Week 31 (July 29 - August 4)									
Male	Avg. Length		526	602	508		608		575
	Std. Error		8.1	8.3	12.5		8.3		7.6
	Sample Size		11	15	4		12		42
Female	Avg. Length		520	582	565		595		568
	Std. Error		5.5	7.3	22.2		7.3		5.9
	Sample Size		12	16	4		14		46
All Fish	Avg. Length		523	592	536		601		571
	Std. Error		4.8	5.7	16.0		5.5		4.8
	Sample Size		23	31	8		26		88
Statistical Week 32 (August 5 - 11)									
Male	Avg. Length	610	526	601	533	640	593		567
	Std. Error		9.3	10.0	10.2		9.1		6.6
	Sample Size	1	19	20	10	1	12		63
Female	Avg. Length		521	578	527		582		563
	Std. Error		11.4	4.4	5.4		4.5		4.0
	Sample Size		15	33	12		30		90
All Fish	Avg. Length	610	524	587	530	640	585		565
	Std. Error		7.1	4.8	5.4		4.1		3.6
	Sample Size	1	34	53	22	1	42		153

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		Brood Year and Age Class							
		1986		1985		1984		1983	
		0.3	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 33 (August 12 - 18)									
Male	Avg. Length		533	623	524		603		584
	Std. Error		12.1	4.9	25.0		7.4		7.7
	Sample Size		9	11	5		18		43
Female	Avg. Length		525	595	547		586		581
	Std. Error		8.9	4.3	8.8		3.8		3.9
	Sample Size		8	32	3		25		68
All Fish	Avg. Length		529	602	533		593		583
	Std. Error		7.5	3.9	15.8		4.0		3.8
	Sample Size		17	43	8		43		111
Statistical Weeks 34 - 38 (August 19 - Sept. - 22)									
Male	Avg. Length		518	613	548		580		572
	Std. Error		7.3	11.1	13.8		21.0		10.4
	Sample Size		5	8	4		5		22
Female	Avg. Length		522	580	573	630	604		576
	Std. Error		8.7	6.1	3.3		4.3		5.7
	Sample Size		6	21	3	1	7		38
All Fish	Avg. Length		520	588	548	630	590	600	573
	Std. Error		5.6	5.6	11.0		8.2		4.8
	Sample Size		11	31	10	1	15	1	69
Combined Periods (Lengths weighted by period catches)									
Male	Avg. Length	584	533	607	535	640	593		574
	Std. Error	20.0	4.3	3.1	4.8		3.9		2.8
	Sample Size	2	66	100	51	1	71		291
Female	Avg. Length	580	527	583	548	630	585		568
	Std. Error		3.8	1.9	3.7		2.6		1.8
	Sample Size	1	58	177	48	1	97		382
All Fish	Avg. Length	583	524	592	540	636	589	600	570
	Std. Error	12.0	2.8	1.7	2.9	5.0	2.3		1.6
	Sample Size	3	133	299	114	2	177	1	729

Appendix B.5. Age composition of sockeye salmon in the District 106-30 (upper Clarence Strait) drift gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class												
	1987		1986			1985		1984			1983		
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)													
Male													
Sample Size	1		1	17		111	11		21				162
Percent	0.3		0.3	4.4		28.8	2.9		5.5				42.1
Std. Error	0.2		0.2	0.9		2.1	0.8		1.0				2.2
Number	5		5	83		540	54		102				789
Female													
Sample Size			1	28		120	38		36				223
Percent			0.3	7.3		31.2	9.9		9.4				57.9
Std. Error			0.2	1.2		2.1	1.4		1.3				2.2
Number			5	136		585	185		176				1,087
All Fish													
Sample Size	1		2	45		233	49		57				387
Percent	0.3		0.5	11.6		60.2	12.7		14.7				100.0
Std. Error	0.2		0.3	1.5		2.2	1.5		1.6				
Number	5		10	219		1,135	239		278				1,886
Statistical Week 26 (June 24 - 30)													
Male													
Sample Size				10		166	28		25		1	1	231
Percent				1.9		32.4	5.5		4.9		0.2	0.2	45.0
Std. Error				0.5		1.7	0.8		0.8		0.2	0.2	1.8
Number				34		557	94		84		3	3	775
Female													
Sample Size				20		179	50		33				282
Percent				3.9		34.9	9.7		6.4				55.0
Std. Error				0.7		1.8	1.1		0.9				1.8
Number				67		600	168		111				946
All Fish													
Sample Size				31		345	78		59		1	1	515
Percent				6.0		67.0	15.1		11.5		0.2	0.2	100.0
Std. Error				0.9		1.7	1.3		1.2		0.2	0.2	
Number				104		1,157	262		198		3	3	1,727
Statistical Week 27 (July 1 - 7)													
Male													
Sample Size			1	19		65	28		19				132
Percent			0.3	5.7		19.3	8.3		5.7				39.3
Std. Error			0.3	1.2		2.0	1.4		1.2				2.5
Number			9	172		586	253		171				1,191
Female													
Sample Size				23		110	49		20	2			204
Percent				6.8		32.7	14.6		6.0	0.6			60.7
Std. Error				1.3		2.4	1.8		1.2	0.4			2.5
Number				207		993	442		180	18			1,840
All Fish													
Sample Size			1	42		175	77		39	2			336
Percent			0.3	12.5		52.1	22.9		11.6	0.6			100.0
Std. Error			0.3	1.7		2.6	2.2		1.7	0.4			
Number			9	379		1,579	695		351	18			3,031
Statistical Week 28 (July 8 - 14)													
Male													
Sample Size	1			25		79	34	2	34	3		1	179
Percent	0.2			5.6		17.6	7.6	0.4	7.6	0.7		0.2	39.9
Std. Error	0.2			1.0		1.7	1.2	0.3	1.2	0.4		0.2	2.2
Number	14			350		1,105	476	28	476	42		14	2,505
Female													
Sample Size				20		162	48	3	36	1			270
Percent				4.5		36.1	10.7	0.7	8.0	0.2			60.1
Std. Error				0.9		2.2	1.4	0.4	1.2	0.2			2.2
Number				280		2,267	672	42	504	14			3,779
All Fish													
Sample Size	1			45		241	82	5	70	4		1	449
Percent	0.2			10.0		53.7	18.3	1.1	15.6	0.9		0.2	100.0
Std. Error	0.2			1.4		2.3	1.8	0.5	1.7	0.4		0.2	
Number	14			630		3,372	1,148	70	980	56		14	6,284
Statistical Week 29 (July 15 - 21)													
Male													
Sample Size			1	35		98	19	1	56				210
Percent			0.2	6.6		18.4	3.6	0.2	10.5				39.5
Std. Error			0.2	1.0		1.6	0.8	0.2	1.3				2.1
Number			17	587		1,643	319	16	939				3,521
Female													
Sample Size				39		189	31	2	61				322
Percent				7.3		35.5	5.8	0.4	11.5				60.5
Std. Error				1.1		2.0	1.0	0.3	1.3				2.1
Number				654		3,169	519	34	1,023				5,399
All Fish													
Sample Size			1	74		287	50	3	117				532
Percent			0.2	13.9		53.9	9.4	0.6	22.0				100.0
Std. Error			0.2	1.5		2.1	1.2	0.3	1.7				
Number			17	1,241		4,812	838	50	1,962				8,920

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	Brood Year and Age Class												
	1987		1986			1985		1984			1983		
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 30 (July 22 - 28)													
Male													
Sample Size			1	43		110	24		50				228
Percent			0.2	7.4		18.9	4.1		8.6				39.2
Std. Error			0.2	1.1		1.6	0.8		1.1				2.0
Number			35	1,524		3,898	851		1,772				8,080
Female													
Sample Size				36		193	31	1	91			2	354
Percent				6.2		33.2	5.3	0.2	15.6			0.3	60.8
Std. Error				1.0		1.9	0.9	0.2	1.5			0.2	2.0
Number				1,276		6,840	1,098	35	3,225			71	12,545
All Fish													
Sample Size			1	79		303	55	1	141			2	582
Percent			0.2	13.6		52.1	9.5	0.2	24.2			0.3	100.0
Std. Error			0.2	1.4		2.0	1.2	0.2	1.8			0.2	
Number			35	2,800		10,738	1,949	35	4,997			71	20,625
Statistical Week 31 (July 29 - August 4)													
Male													
Sample Size				43		106	29	1	57			2	238
Percent				7.1		17.6	4.8	0.2	9.5			0.3	39.5
Std. Error				1.0		1.5	0.9	0.2	1.2			0.2	2.0
Number				1,212		2,988	817	28	1,606			56	6,707
Female													
Sample Size				53		191	25	1	92			2	364
Percent				8.8		31.7	4.2	0.2	15.3			0.3	60.5
Std. Error				1.1		1.9	0.8	0.2	1.4			0.2	2.0
Number				1,493		5,382	705	28	2,593			56	10,257
All Fish													
Sample Size				96		298	54	2	149			4	603
Percent				15.9		49.4	9.0	0.3	24.7			0.7	100.0
Std. Error				1.5		2.0	1.1	0.2	1.7			0.3	
Number				2,705		8,398	1,522	56	4,199			112	16,992
Statistical Week 32 (August 5 - 11)													
Male													
Sample Size				42		122	30		70		1		265
Percent				7.2		21.0	5.2		12.0		0.2		45.6
Std. Error				1.0		1.6	0.9		1.3		0.2		2.0
Number				741		2,151	529		1,234		18		4,673
Female													
Sample Size		1	1	46		159	25	1	82		1		316
Percent		0.2	0.2	7.9		27.4	4.3	0.2	14.1		0.2		54.4
Std. Error		0.2	0.2	1.1		1.8	0.8	0.2	1.4		0.2		2.0
Number		18	18	811		2,802	441	18	1,446		18		5,572
All Fish													
Sample Size		1	1	88		282	55	1	152		2		582
Percent		0.2	0.2	15.1		48.5	9.5	0.2	26.1		0.3		100.0
Std. Error		0.2	0.2	1.4		2.0	1.2	0.2	1.8		0.2		
Number		18	18	1,552		4,970	970	18	2,680		36		10,262
Statistical Week 33 (August 12 - 18)													
Male													
Sample Size				47		96	24	3	63		1		234
Percent				7.7		15.8	3.9	0.5	10.4		0.2		38.5
Std. Error				1.0		1.4	0.8	0.3	1.2		0.2		1.9
Number				524		1,072	268	33	703		11		2,611
Female													
Sample Size				58		185	26	3	102				374
Percent				9.5		30.4	4.3	0.5	16.8				61.5
Std. Error				1.1		1.8	0.8	0.3	1.4				1.9
Number				648		2,065	290	33	1,138				4,174
All Fish													
Sample Size				105		281	50	6	165		1		608
Percent				17.3		46.2	8.2	1.0	27.1		0.2		100.0
Std. Error				1.5		1.9	1.1	0.4	1.7		0.2		
Number				1,172		3,137	558	66	1,841		11		6,785
Statistical Week 34 (August 19 - 25)													
Male													
Sample Size				45		93	30	2	50				220
Percent				7.4		15.3	4.9	0.3	8.2				36.2
Std. Error				0.9		1.3	0.8	0.2	1.0				1.7
Number				195		404	130	9	218				956
Female													
Sample Size				83		169	46	1	88				387
Percent				13.7		27.8	7.6	0.2	14.5				63.8
Std. Error				1.2		1.6	0.9	0.1	1.3				1.7
Number				361		734	200	4	382				1,681
All Fish													
Sample Size				128		262	76	3	138				607
Percent				21.1		43.2	12.5	0.5	22.7				100.0
Std. Error				1.5		1.8	1.2	0.2	1.5				
Number				556		1,138	330	13	600				2,637

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	Brood Year and Age Class												
	1987		1986			1985		1984			1983		
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Weeks 35 - 39 (August 26 - Sept. 29)													
Male													
Sample Size				14		47	8		21			1	91
Percent				6.6		22.2	3.8		9.9			0.5	42.9
Std. Error				1.6		2.7	1.2		1.9			0.4	3.2
Number				115		384	65		172			8	744
Female													
Sample Size		1		31	1	53	14	1	19			1	121
Percent		0.5		14.6	0.5	25.0	6.6	0.5	9.0			0.5	57.1
Std. Error		0.4		2.3	0.4	2.8	1.6	0.4	1.8			0.4	3.2
Number		8		254	8	434	115	8	155			8	990
All Fish													
Sample Size		1		45	1	100	22	1	40			2	212
Percent		0.5		21.2	0.5	47.2	10.4	0.5	18.9			0.9	100.0
Std. Error		0.4		2.6	0.4	3.2	2.0	0.4	2.5			0.6	
Number		8		369	8	818	180	8	327			16	1,734
Combined Periods (Percentages are weighted by period catches)													
Male													
Sample Size	2		4	340		1,093	265	9	466	3	3	5	2,190
Percent	<0.1		0.1	6.8		19.0	4.8	0.1	9.3	0.1	<0.1	0.1	40.3
Std. Error	<0.1		<0.1	0.4		0.6	0.3	0.1	0.5	<0.1	<0.1	0.1	0.8
Number	19		66	5,537		15,328	3,856	114	7,477	42	32	81	32,552
Female													
Sample Size		2	2	437	1	1,710	383	13	660	3	1	5	3,217
Percent		<0.1	<0.1	7.7	<0.1	32.0	6.0	0.3	13.5	<0.1	<0.1	0.2	59.7
Std. Error		<0.1	<0.1	0.4	<0.1	0.8	0.4	0.1	0.6	<0.1	<0.1	0.1	0.8
Number		26	23	6,187	8	25,871	4,835	202	10,933	32	18	135	48,270
All Fish													
Sample Size	2	2	6	778	1	2,807	648	22	1,127	6	4	10	5,413
Percent	<0.1	<0.1	0.1	14.5	<0.1	51.0	10.7	0.4	22.8	0.1	0.1	0.3	100.0
Std. Error	<0.1	<0.1	0.1	0.6	<0.1	0.8	0.5	0.1	0.7	<0.1	<0.1	0.1	
Number	19	26	89	11,727	8	41,254	8,691	316	18,413	74	50	216	80,883

Appendix B.6. Length composition of sockeye salmon in the District 106-30 (upper Clarence Strait) drift gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class											
		1987		1986			1985		1984		1983		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)													
Male	Avg. Length				515		569	530		574			559
	Std. Error				10.4		8.2			13.3			7.0
	Sample Size				5		17	1		6			29
Female	Avg. Length			500	513		571	533		557			549
	Std. Error				6.9		5.0	5.1		6.3			4.2
	Sample Size			1	13		31	13		8			66
All Fish	Avg. Length			500	513		571	533		564			553
	Std. Error				5.6		4.2	4.7		6.9			3.6
	Sample Size			1	18		49	14		14			96
Statistical Week 26 (June 24 - 30)													
Male	Avg. Length				545		608	523		576			590
	Std. Error				10.0		4.8	14.1		12.0			6.0
	Sample Size				3		34	6		5			48
Female	Avg. Length				535		582	550		587			574
	Std. Error				12.5		3.5	6.2		4.5			3.3
	Sample Size				5		41	12		10			68
All Fish	Avg. Length				539		594	541		583			581
	Std. Error				8.4		3.3	6.8		4.9			3.2
	Sample Size				8		75	18		15			116
Statistical Week 27 (July 1 - 7)													
Male	Avg. Length				535		594	540		589			573
	Std. Error				6.8		4.9	5.7		10.7			4.8
	Sample Size				10		28	11		8			57
Female	Avg. Length				528		573	533		573			557
	Std. Error				6.9		3.3	4.1		5.9			3.2
	Sample Size				11		40	20		8			79
All Fish	Avg. Length				531		582	535		581			563
	Std. Error				4.8		3.0	3.4		6.2			2.8
	Sample Size				21		68	31		16			136
Statistical Week 28 (July 8 - 14)													
Male	Avg. Length	491			537		595	536	607	600			571
	Std. Error				14.1		8.6	5.3	22.5	10.8			6.2
	Sample Size	1			5		18	14	2	9			49
Female	Avg. Length				526		580	542	593	589			567
	Std. Error				7.9		3.1	6.4		6.9			3.4
	Sample Size				9		52	19	1	6			87
All Fish	Avg. Length	491			530		584	539	602	596			568
	Std. Error				7.0		3.2	4.3	13.7	7.0			3.1
	Sample Size	1			14		70	33	3	15			136
Statistical Week 29 (July 15 - 21)													
Male	Avg. Length			596	521		597	536	571	595			581
	Std. Error				7.4		4.9	7.5		4.8			4.4
	Sample Size			1	8		34	8	1	20			72
Female	Avg. Length				523		574	533		576			568
	Std. Error				4.1		3.1	11.0		5.3			3.0
	Sample Size				5		55	6		21			87
All Fish	Avg. Length			596	522		583	535	571	586			574
	Std. Error				4.7		2.9	6.1		3.8			2.6
	Sample Size			1	13		89	14	1	41			159
Statistical Week 30 (July 22 - 28)													
Male	Avg. Length				532		605	522		608			588
	Std. Error				6.2		3.7	7.1		5.7			5.0
	Sample Size				10		33	3		11			57
Female	Avg. Length				535		585	536		583		560	575
	Std. Error				11.5		3.1	9.6		6.0		23.5	3.2
	Sample Size				7		53	11		22		2	95
All Fish	Avg. Length				533		592	533		592		560	580
	Std. Error				5.8		2.6	7.7		4.9		23.5	2.8
	Sample Size				17		86	14		33		2	152
Statistical Week 31 (July 29 - August 4)													
Male	Avg. Length				517		598	540	675	591		583	579
	Std. Error				6.0		6.2	9.0		6.2			5.4
	Sample Size				9		27	7	1	17		1	62
Female	Avg. Length				514		587	530		567		614	571
	Std. Error				8.5		2.7	9.8		4.1		2.0	3.5
	Sample Size				8		43	6		22		2	81
All Fish	Avg. Length				515		591	535	675	578		604	574
	Std. Error				5.0		2.9	6.5		4.0		10.4	3.1
	Sample Size				17		70	13	1	39		3	143

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		Brood Year and Age Class											
		1987		1986			1985		1984		1983		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	3.3	Total
Statistical Week 32 (August 5 - 11)													
Male	Avg. Length				515		593	509		587	607		565
	Std. Error				7.4		4.1	10.5		6.4			4.9
	Sample Size				20		41	11		20	1		93
Female	Avg. Length		389		530		586	552	619	584	604		575
	Std. Error				8.2		3.2	9.1		5.3			4.3
	Sample Size		1		8		36	5	1	19	1		71
All Fish	Avg. Length		389		519		589	523	619	586	606		569
	Std. Error				5.9		2.7	9.1		4.1	1.5		3.3
	Sample Size		1		28		77	16	1	39	2		164
Statistical Week 33 (August 12 - 18)													
Male	Avg. Length				526		597	542		585			574
	Std. Error				6.0		4.6	10.9		5.2			4.4
	Sample Size				16		30	6		22			74
Female	Avg. Length				522		582	537		583			572
	Std. Error				5.6		3.0	13.6		3.9			3.0
	Sample Size				12		58	6		28			104
All Fish	Avg. Length				524		587	540		584			573
	Std. Error				4.1		2.6	8.3		3.1			2.5
	Sample Size				28		88	12		50			178
Statistical Week 34 (August 19 - 25)													
Male	Avg. Length				520		599	525		585			570
	Std. Error				8.3		4.3	16.0		5.8			5.7
	Sample Size				12		26	8		13			59
Female	Avg. Length				517		582	528		577			564
	Std. Error				5.2		2.6	6.0		4.9			3.4
	Sample Size				15		47	12		22			96
All Fish	Avg. Length				518		588	527		580			566
	Std. Error				4.6		2.5	7.1		3.8			3.0
	Sample Size				27		73	20		35			155
Statistical Weeks 35 - 39 (August 26 - Sept. 29)													
Male	Avg. Length				546		604	521		598			584
	Std. Error				7.6		4.8	14.4		6.8			5.2
	Sample Size				11		29	5		11			56
Female	Avg. Length				517	378	577	530	607	567			552
	Std. Error				6.0		3.4	9.4		7.4			4.8
	Sample Size				18	1	31	9	1	12			72
All Fish	Avg. Length				528	378	590	527	607	582			566
	Std. Error				5.3		3.4	7.7		6.0			3.8
	Sample Size				29	1	60	14	1	23			128
Combined Periods (Lengths weighted by period catches)													
Male	Avg. Length	491		596	525		598	529	633	595	607	583	578
	Std. Error				2.6		1.6	3.2	23.6	2.2			1.6
	Sample Size	1		1	109		317	80	4	142	1	1	656
Female	Avg. Length		389	500	525	378	582	537	609	578	604	584	570
	Std. Error				2.2		1.0	2.2	7.5	1.7		18.4	1.1
	Sample Size		1	1	111	1	487	119	3	178	1	4	906
All Fish	Avg. Length	491	389	579	524	378	589	533	628	585	606	579	573
	Std. Error			48.0	1.7		0.9	1.9	13.1	1.4	1.5	14.3	0.9
	Sample Size	1	1	2	220	1	805	199	7	320	2	5	1563

Appendix B.7. Age composition of sockeye salmon in the District 106-41 (Sumner Strait) drift gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987	1986		1985			1984			1983		
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)												
Male												
Sample Size		1	31		189	40		19				280
Percent		0.2	5.3		32.1	6.8		3.2				47.5
Std. Error		0.2	0.8		1.7	0.9		0.7				1.9
Number		5	166		1,009	214		101				1,495
Female												
Sample Size		3	25		190	59	1	31				309
Percent		0.3	4.2		32.3	10.0	0.2	5.3				52.5
Std. Error		0.3	0.7		1.7	1.1	0.2	0.8				1.9
Number		16	133		1,015	315	5	166				1,650
All Fish												
Sample Size		5	56		379	99	1	50				590
Percent		0.8	9.5		64.2	16.8	0.2	8.5				100.0
Std. Error		0.3	1.1		1.8	1.4	0.2	1.0				
Number		27	299		2,024	529	5	267				3,151
Statistical Week 26 (June 24 - 30)												
Male												
Sample Size		1	30	1	186	41		29				288
Percent		0.2	4.8	0.2	29.8	6.6		4.6				46.1
Std. Error		0.4	0.8	0.4	1.7	0.9		0.8				1.9
Number		7	219	7	1,357	299		212				2,101
Female												
Sample Size		2	37	1	171	76		49		1		337
Percent		0.3	5.9	0.2	27.4	12.2		7.8		0.2		53.9
Std. Error		0.2	0.9	0.1	1.7	1.2		1.0		0.1		1.9
Number		15	270	7	1,248	555		357		7		2,459
All Fish												
Sample Size		3	67	2	357	118		78		1		626
Percent		0.5	10.7	0.3	57.0	18.8		12.5		0.2		100.0
Std. Error		0.3	1.1	0.2	1.8	1.5		1.2		0.1		
Number		22	489	14	2,605	861		569		7		4,567
Statistical Week 27 (July 1 - 7)												
Male												
Sample Size		2	43		166	65	1	37				314
Percent		0.3	6.9		26.6	10.4	0.2	5.9				50.4
Std. Error		0.2	1.0		1.7	1.2	0.2	0.9				1.9
Number		31	669		2,581	1,011	16	576				4,884
Female												
Sample Size		1	27		164	74		42			1	309
Percent		0.2	4.3		26.3	11.9		6.7			0.2	49.6
Std. Error		0.2	0.8		1.7	1.3		1.0			0.2	1.9
Number		16	420		2,551	1,151		653			16	4,807
All Fish												
Sample Size		3	70		330	139	1	79			1	623
Percent		0.5	11.2		53.0	22.3	0.2	12.7			0.2	100.0
Std. Error		0.3	1.2		1.9	1.6	0.2	1.3			0.2	
Number		47	1,089		5,132	2,162	16	1,229			16	9,691
Statistical Week 28 (July 8 - 14)												
Male												
Sample Size			38		165	44	2	43			3	295
Percent			6.2		26.7	7.1	0.3	7.0			0.5	47.8
Std. Error			1.0		1.8	1.0	0.2	1.0			0.3	2.0
Number			1,184		5,143	1,371	63	1,340			94	9,195
Female												
Sample Size		2	40		192	40	1	44	2		1	322
Percent		0.3	6.5		31.1	6.5	0.2	7.1	0.3		0.2	52.2
Std. Error		0.2	1.0		1.8	1.0	0.2	1.0	0.2		0.2	2.0
Number		62	1,247		5,984	1,247	31	1,372	62		31	10,036
All Fish												
Sample Size		2	78		357	85	3	87	2		4	618
Percent		0.3	12.6		57.8	13.8	0.5	14.1	0.3		0.6	100.0
Std. Error		0.2	1.3		2.0	1.4	0.3	1.4	0.2		0.3	
Number		62	2,431		11,127	2,649	94	2,712	62		125	19,262
Statistical Week 29 (July 15 - 21)												
Male												
Sample Size			43		182	40	2	51	1	1	2	322
Percent			7.3		30.8	6.8	0.3	8.6	0.2	0.2	0.3	54.6
Std. Error			1.1		1.9	1.0	0.2	1.1	0.2	0.2	0.2	2.0
Number			1,318		5,578	1,226	61	1,563	31	31	61	9,869
Female												
Sample Size			17		181	12	2	54	1		1	268
Percent			2.9		30.7	2.0	0.3	9.2	0.2		0.2	45.4
Std. Error			0.7		1.9	0.6	0.2	1.2	0.2		0.2	2.0
Number			521		5,547	368	61	1,655	31		31	8,214
All Fish												
Sample Size			60		364	52	4	105	2	1	3	591
Percent			10.2		61.6	8.8	0.7	17.8	0.3	0.2	0.5	100.0
Std. Error			1.2		2.0	1.1	0.3	1.3	0.2	0.2	0.3	
Number			1,839		11,155	1,594	122	3,218	62	31	92	18,113

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Appendix B.7. (page 2 of 2)

	Brood Year and Age Class											
	1987	1986		1985			1984			1983		
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 30 (July 22 - 28)												
Male												
Sample Size		1	72		155	42	2	43				315
Percent		0.2	11.4		24.4	6.6	0.3	6.8				49.7
Std. Error		0.2	1.2		1.7	1.0	0.2	1.0				2.0
Number		48	3,436		7,398	2,004	95	2,052				15,033
Female												
Sample Size		2	45		190	29		50	1		2	319
Percent		0.3	7.1		30.0	4.6		7.9	0.2		0.3	50.3
Std. Error		0.2	1.0		1.8	0.8		1.1	0.2		0.2	2.0
Number		95	2,148		9,067	1,384		2,386	48		95	15,223
All Fish												
Sample Size		3	117		345	71	2	93	1		2	634
Percent		0.5	18.5		54.4	11.2	0.3	14.7	0.2		0.3	100.0
Std. Error		0.3	1.5		2.0	1.2	0.2	1.4	0.2		0.2	
Number		143	5,584		16,465	3,388	95	4,438	48		95	30,256
Statistical Week 31 (July 29 - August 4)												
Male												
Sample Size			60		148	30	1	57			2	298
Percent			10.3		25.3	5.1	0.2	9.7			0.3	50.9
Std. Error			1.2		1.7	0.8	0.2	1.2			0.2	2.0
Number			1,046		2,579	523	17	994			35	5,194
Female												
Sample Size	1		35		179	22		49	1			287
Percent	0.2		6.0		30.6	3.8		8.4	0.2			49.1
Std. Error	0.2		1.0		1.9	0.8		1.1	0.2			2.0
Number	17		610		3,122	383		854	17			5,003
All Fish												
Sample Size	1		95		327	52	1	106	1		2	585
Percent	0.2		16.2		55.9	8.9	0.2	18.1	0.2		0.3	100.0
Std. Error	0.2		2.0		2.0	1.1	0.2	1.5	0.2		0.2	
Number	17		1,656		5,701	906	17	1,848	17		35	10,197
Statistical Week 32 (August 5 - 11)												
Male												
Sample Size			69		132	33		70			4	308
Percent			10.8		20.7	5.2		11.0			0.6	48.4
Std. Error			1.1		1.5	0.8		1.1			0.3	1.8
Number			459		878	220		466			27	2,050
Female												
Sample Size		1	47		174	28	2	72			5	329
Percent		0.2	7.4		27.3	4.4	0.3	11.3			0.8	51.6
Std. Error		0.1	1.0		1.6	0.7	0.2	1.2			0.3	1.8
Number		7	313		1,159	186	13	479			33	2,190
All Fish												
Sample Size		1	116		306	61	2	142			9	637
Percent		0.2	18.2		48.0	9.6	0.3	22.3			1.4	100.0
Std. Error		0.1	1.4		1.8	1.1	0.2	1.5			0.4	
Number		7	772		2,037	406	13	945			60	4,240
Statistical Week 33 (August 12 - 18)												
Male												
Sample Size			62		118	48	3	53	1		1	286
Percent			10.8		20.5	8.3	0.5	9.2	0.2		0.2	49.7
Std. Error			1.1		1.5	1.0	0.3	1.1	0.2		0.2	1.8
Number			265		505	205	13	228	4		4	1,224
Female												
Sample Size			54		146	33	3	50			3	289
Percent			9.4		25.4	5.7	0.5	8.7			0.5	50.3
Std. Error			1.1		1.6	0.9	0.3	1.0			0.3	1.8
Number			231		625	141	13	214			13	1,237
All Fish												
Sample Size			120		280	82	6	108	1		4	601
Percent			20.0		46.6	13.6	1.0	18.0	0.2		0.7	100.0
Std. Error			1.4		1.8	1.2	0.4	1.4	0.1		0.3	
Number			514		1,199	351	26	462	4		17	2,573
Statistical Weeks 34 - 39 (August 19 - Sept. 29)												
Male												
Sample Size			57		151	39	1	80	1		3	332
Percent			9.6		25.4	6.6	0.2	13.5	0.2		0.5	55.9
Std. Error			1.1		1.6	0.9	0.1	1.2	0.1		0.3	1.8
Number			267		709	183	5	375	5		14	1,558
Female												
Sample Size			47		133	26		52		1	3	262
Percent			7.9		22.4	4.4		8.8		0.2	0.5	44.1
Std. Error			1.0		1.5	0.7		1.0		0.1	0.3	1.8
Number			221		624	122		244		5	14	1,230
All Fish												
Sample Size			109		288	69	1	137	1	1	6	612
Percent			17.8		47.1	11.3	0.2	22.4	0.2	0.2	1.0	100.0
Std. Error			1.4		1.8	1.1	0.1	1.5	0.1	0.1	0.4	
Number			512		1,350	324	5	643	5	5	28	2,872
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size		5	505	1	1,592	422	12	482	3	1	15	3,038
Percent		0.1	8.6	<0.1	26.5	6.9	0.3	7.6	<0.1	<0.1	0.2	50.3
Std. Error		<0.1	0.5	<0.1	0.7	0.4	0.1	0.4	<0.1	<0.1	0.1	0.8
Number		91	9,029	7	27,737	7,256	270	7,907	40	31	235	52,603
Female												
Sample Size	1	11	374	1	1,720	399	9	493	5	2	16	3,031
Percent	<0.1	0.2	5.8	<0.1	29.6	5.6	0.1	8.0	0.2	<0.1	0.2	49.7
Std. Error	<0.1	0.1	0.4	<0.1	0.7	0.4	0.1	0.4	0.1	<0.1	0.1	0.8
Number	17	211	6,114	7	30,942	5,852	123	8,380	158	12	233	52,049
All Fish												
Sample Size	1	17	888	2	3,333	828	21	985	8	3	31	6,117
Percent	<0.1	0.3	14.5	<0.1	56.0	12.6	0.4	15.6	0.2	<0.1	0.4	100.0
Std. Error	<0.1	0.1	0.6	<0.1	0.8	0.5	0.1	0.6	0.1	<0.1	0.1	
Number	17	308	15,185	14	58,795	13,170	393	16,331	198	43	468	104,922

Appendix B.8. Length composition of sockeye salmon in the District 106-41 (Sumner Strait) drift gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1986		1985		1984			1983	
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Week 25 (June 17 - 23)										
Male	Avg. Length		506	581	526		584			560
	Std. Error		12.8	3.7	7.8		19.0			5.0
	Sample Size		9	41	13		2			65
Female	Avg. Length		522	567	550		565			557
	Std. Error		6.6	3.3	7.4		12.3			3.3
	Sample Size		8	38	16		4			66
All Fish	Avg. Length		514	574	539		571			558
	Std. Error		7.5	2.6	5.8		10.1			3.0
	Sample Size		17	79	29		6			131
Statistical Week 26 (June 24 - 30)										
Male	Avg. Length		539	585	543		582			574
	Std. Error		25.8	3.9	7.1		5.5			4.6
	Sample Size		5	35	8		3			51
Female	Avg. Length		519	569	538		586			558
	Std. Error		5.8	3.9	4.3		5.5			3.4
	Sample Size		11	40	18		11			80
All Fish	Avg. Length		525	577	540		585			564
	Std. Error		8.7	2.9	3.7		4.4			2.8
	Sample Size		16	75	26		14			131
Statistical Week 27 (July 1 - 7)										
Male	Avg. Length	558	532	590	537		575			568
	Std. Error		11.7	3.4	6.0		8.3			4.1
	Sample Size	1	5	34	20		8			68
Female	Avg. Length		496	569	527		560			557
	Std. Error			3.4	5.2		7.6			3.4
	Sample Size		1	49	19		8			77
All Fish	Avg. Length	558	526	577	532		568			562
	Std. Error		11.3	2.7	4.0		5.8			2.6
	Sample Size	1	6	83	39		16			145
Statistical Week 28 (July 8 - 14)										
Male	Avg. Length		534	599	526	588	590		589	576
	Std. Error		10.7	3.5	4.4		7.7			4.7
	Sample Size		8	38	13	1	6		1	67
Female	Avg. Length		509	569	539		564			558
	Std. Error		5.0	3.1	7.8		9.0			3.4
	Sample Size		7	48	14		11			80
All Fish	Avg. Length		522	582	532	588	573		589	566
	Std. Error		6.8	2.8	4.6		7.0			2.9
	Sample Size		15	86	27	1	17		1	147
Statistical Week 29 (July 15 - 21)										
Male	Avg. Length		517	580	522	580	591			565
	Std. Error		7.1	4.1	6.3		6.1			4.2
	Sample Size		14	47	11	1	15			88
Female	Avg. Length		507	576	544	592	574			571
	Std. Error		11.6	2.8	7.0	11.5	7.0			3.1
	Sample Size		5	57	2	2	12			78
All Fish	Avg. Length		514	578	525	588	583			567
	Std. Error		6.0	2.4	5.8	7.7	4.8			2.7
	Sample Size		19	104	13	3	27			166
Statistical Week 30 (July 22 - 28)										
Male	Avg. Length	584	512	582	525		578			557
	Std. Error		5.2	5.1	13.6		11.3			5.0
	Sample Size	1	20	37	7		10			75
Female	Avg. Length		520	572	517		569	540	569	559
	Std. Error		5.8	4.1	10.1		6.3			3.8
	Sample Size		12	43	6		13	1	1	76
All Fish	Avg. Length	584	515	577	522		573	540	569	558
	Std. Error		3.9	3.3	8.4		6.0			3.1
	Sample Size	1	32	80	13		23	1	1	151

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		Brood Year and Age Class								
		1986		1985		1984			1983	
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Week 31 (July 29 - August 4)										
Male	Avg. Length		517	580	506		593			565
	Std. Error		7.8	4.1	18.0		9.7			5.1
	Sample Size		11	37	4		8			60
Female	Avg. Length		491	568	522		553	538		553
	Std. Error		5.6	3.3	15.2		5.6			4.1
	Sample Size		7	41	4		9	1		62
All Fish	Avg. Length		507	573	514		572	538		559
	Std. Error		6.0	2.7	11.3		7.3			3.3
	Sample Size		18	78	8		17	1		122
Statistical Week 32 (August 5 - 11)										
Male	Avg. Length		531	595	511		591			572
	Std. Error		5.0	4.4	13.0		5.4			4.7
	Sample Size		19	25	2		17			63
Female	Avg. Length		537	575	541	598	575		545	567
	Std. Error		11.5	4.1	4.6		6.5			3.5
	Sample Size		9	39	7	1	19		1	76
All Fish	Avg. Length		533	583	534	598	582		545	569
	Std. Error		4.9	3.3	6.0		4.4			2.8
	Sample Size		28	64	9	1	36		1	139
Statistical Week 33 (August 12 - 18)										
Male	Avg. Length		524	584	515	609	585			567
	Std. Error		9.5	4.6	10.3		5.5			4.6
	Sample Size		12	40	8	1	14			75
Female	Avg. Length		520	563	524	594	576			553
	Std. Error		4.9	3.8	21.6	11.5	6.2			3.9
	Sample Size		15	36	5	2	9			67
All Fish	Avg. Length		522	574	518	599	581			560
	Std. Error		4.9	3.2	10.0	8.4	4.2			3.1
	Sample Size		27	76	13	3	23			142
Statistical Weeks 34 - 39 (August 19 - Sept. 29)										
Male	Avg. Length		538	615	521		592		540	585
	Std. Error		8.9	6.3	6.9		6.1			5.4
	Sample Size		16	34	6		22		1	79
Female	Avg. Length		529	584	528		577		583	568
	Std. Error		13.6	4.2	6.1		5.0		5.5	4.1
	Sample Size		9	36	10		15		2	72
All Fish	Avg. Length		535	597	530		583		568	574
	Std. Error		6.4	4.1	4.4		4.3		14.5	3.2
	Sample Size		30	74	20		42		3	169
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	578	522	587	524	586	585		583	566
	Std. Error	13.0	2.8	1.5	2.7	8.6	2.4		24.5	1.5
	Sample Size	2	119	368	92	3	105		2	691
Female	Avg. Length		511	571	531	593	568	539	567	560
	Std. Error		2.8	1.1	2.6	5.3	2.3	1.0	9.1	1.1
	Sample Size		84	427	101	5	111	2	4	734
All Fish	Avg. Length	578	518	578	526	589	575	539	574	563
	Std. Error	13.0	2.0	1.0	1.9	4.2	1.8	1.0	8.6	0.9
	Sample Size	2	208	799	197	8	221	2	6	1443

Appendix B.9. Age composition of sockeye salmon in the District 108 drift gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class									
	1987	1986		1985			1984		1983	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks 25 - 26 (June 17 - 30)										
Male										
Sample Size		2	5	2	104	3		15		131
Percent		0.6	1.4	0.6	30.0	0.9		4.3		37.8
Std. Error		0.3	0.5	0.3	1.9	0.4		0.8		2.0
Number		5	12	5	251	7		36		316
Female										
Sample Size		1	13	2	162	4		33	1	216
Percent		0.3	3.7	0.6	46.7	1.2		9.5	0.3	62.2
Std. Error		0.2	0.8	0.3	2.1	0.4		1.2	0.2	2.0
Number		2	31	5	390	10		80	2	520
All Fish										
Sample Size		3	18	4	266	7		48	1	347
Percent		0.9	5.2	1.2	76.7	2.0		13.8	0.3	100.0
Std. Error		0.4	0.9	0.4	1.7	0.6		1.4	0.2	
Number		7	43	10	641	17		116	2	836
Statistical Week 27 (July 1 - 7)										
Male										
Sample Size		1	14		170	4	1	18		208
Percent		0.3	3.5		42.5	1.0	0.3	4.5		52.0
Std. Error		0.2	0.8		2.1	0.4	0.2	0.9		2.2
Number		4	55		669	15	4	71		818
Female										
Sample Size		5	12		148	6	1	20		192
Percent		1.3	3.0		37.0	1.5	0.3	5.0		48.0
Std. Error		0.5	0.7		2.1	0.5	0.2	0.9		2.2
Number		20	47		582	24	4	78		755
All Fish										
Sample Size		6	26		318	10	2	38		400
Percent		1.5	6.5		79.5	2.5	0.5	9.5		100.0
Std. Error		0.5	1.1		1.7	0.7	0.3	1.3		
Number		24	102		1,251	39	8	149		1,573
Statistical Week 28 (July 8 - 14)										
Male										
Sample Size	3	3	11		118	8	1	17		161
Percent	0.9	0.9	3.2		34.5	2.3	0.3	5.0		47.1
Std. Error	0.5	0.5	0.9		2.4	0.8	0.3	1.1		2.5
Number	25	25	91		970	66	8	140		1,325
Female										
Sample Size		4	14	1	130	8	2	22		181
Percent		1.2	4.1	0.3	38.0	2.3	0.6	6.4		52.9
Std. Error		0.5	1.0	0.3	2.5	0.8	0.4	1.2		2.5
Number		33	115	8	1,071	66	16	181		1,490
All Fish										
Sample Size	3	7	25	1	249	16	3	39		343
Percent	0.9	2.0	7.3	0.3	72.6	4.7	0.9	11.4		100.0
Std. Error	0.5	0.7	1.3	0.3	2.3	1.1	0.5	1.6		
Number	25	58	206	8	2,049	132	24	321		2,823
Statistical Week 29 (July 15 - 21)										
Male										
Sample Size		7	8	2	144	3		18		182
Percent		1.9	2.1	0.5	38.5	0.8		4.8		48.7
Std. Error		0.6	0.7	0.3	2.3	0.4		1.0		2.3
Number		38	44	11	796	17		100		1,006
Female										
Sample Size		9	5	2	153	3	4	16		192
Percent		2.4	1.3	0.5	40.9	0.8	1.1	4.3		51.3
Std. Error		0.7	0.5	0.3	2.3	0.4	0.5	0.9		2.3
Number		50	28	11	846	17	22	88		1,062
All Fish										
Sample Size		16	13	4	297	6	4	34		374
Percent		4.3	3.5	1.1	79.4	1.6	1.1	9.1		100.0
Std. Error		0.9	0.9	0.5	1.9	0.6	0.5	1.3		
Number		88	72	22	1,642	34	22	188		2,068

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	Brood Year and Age Class									
	1987	1986		1985			1984		1983	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 30 (July 22 - 28)										
Male										
Sample Size		8	13		227	3	2	17		270
Percent		1.6	2.5		44.2	0.6	0.4	3.3		52.6
Std. Error		0.5	0.6		2.0	0.3	0.2	0.7		2.0
Number		44	71		1,246	16	11	94		1,482
Female										
Sample Size		11	4	2	204	2	7	13		243
Percent		2.1	0.8	0.4	39.8	0.4	1.4	2.5		47.4
Std. Error		0.6	0.4	0.2	2.0	0.2	0.5	0.6		2.0
Number		60	22	11	1,121	11	38	71		1,334
All Fish										
Sample Size		19	17	2	431	5	9	30		513
Percent		3.7	3.3	0.4	84.0	1.0	1.8	5.8		100.0
Std. Error		0.8	0.7	0.2	1.5	0.4	0.5	0.9		
Number		104	93	11	2,367	27	49	165		2,816
Statistical Weeks 31 - 39 (July 29 - August 4) Sept. 23 - 29										
Male										
Sample Size		8	4		110	3		16	1	142
Percent		2.4	1.2		33.0	0.9		4.8	0.3	42.6
Std. Error		0.7	0.5		2.3	0.5		1.0	0.3	2.4
Number		35	18		482	13		70	4	622
Female										
Sample Size		12	5		146	5		23		191
Percent		3.6	1.5		43.8	1.5		6.9		57.4
Std. Error		0.9	0.6		2.4	0.6		1.2		2.4
Number		53	21		639	22		101		836
All Fish										
Sample Size		20	9		256	8		39	1	333
Percent		6.0	2.7		76.9	2.4		11.7	0.3	100.0
Std. Error		1.1	0.8		2.0	0.7		1.6	0.3	
Number		88	39		1,121	35		171	4	1,458
Combined Periods (Percentages are weighted by period catches)										
Male										
Sample Size	3	29	55	4	873	24	4	101	1	1,094
Percent	0.2	1.3	2.5	0.1	38.2	1.2	0.2	4.4	<0.1	48.1
Std. Error	0.1	0.2	0.3	0.1	1.0	0.2	0.1	0.4	<0.1	1.0
Number	25	151	291	16	4,414	134	23	511	4	5,569
Female										
Sample Size		42	53	7	943	28	14	127	1	1,215
Percent		1.9	2.3	0.3	40.2	1.3	0.7	5.2	<0.1	51.9
Std. Error		0.3	0.3	0.1	1.0	0.2	0.2	0.4	<0.1	1.0
Number		218	264	35	4,649	150	80	599	2	5,997
All Fish										
Sample Size	3	71	108	11	1,817	52	18	228	2	2,310
Percent	0.2	3.2	4.8	0.4	78.4	2.4	0.9	9.6	0.1	100.0
Std. Error	0.1	0.3	0.4	0.1	0.8	0.3	0.2	0.6	<0.1	
Number	25	369	555	51	9,071	284	103	1,110	6	11,574

Appendix B.10. Length composition of sockeye salmon in the District 108 drift gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class									
		1987	1986		1985			1984		1983	
		0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks 25 - 26 (June 17 - 30)											
Male	Avg. Length		568	535	615	595	565		594		592
	Std. Error		7.5	13.4		2.5			6.1		2.6
	Sample Size		2	4	1	77	1		9		94
Female	Avg. Length		549	526	602	578	518		575	565	572
	Std. Error			5.0	39.5	2.4	8.8		6.1		2.4
	Sample Size		1	12	2	119	3		16	1	154
All Fish	Avg. Length		561	529	606	585	530		582	565	580
	Std. Error		7.5	4.9	23.2	1.8	13.4		4.8		1.9
	Sample Size		3	16	3	196	4		25	1	248
Statistical Week 27 (July 1 - 7)											
Male	Avg. Length			553		597	541		597		593
	Std. Error			9.0		2.4	11.0		8.2		2.7
	Sample Size			4		67	4		9		84
Female	Avg. Length		554	513		573	516		580		567
	Std. Error		3.5	8.6		2.7	14.1		8.1		3.1
	Sample Size		2	5		61	3		7		78
All Fish	Avg. Length		554	531		586	530		590		580
	Std. Error		3.5	9.1		2.1	9.3		6.0		2.3
	Sample Size		2	9		128	7		16		162
Statistical Week 28 (July 8 - 14)											
Male	Avg. Length	427	560	486		594	509	663	568		572
	Std. Error	17.0		9.9		3.6	4.3		8.3		5.4
	Sample Size	2	1	8		62	7	1	9		90
Female	Avg. Length		567	501		573	499		575		565
	Std. Error			8.5		2.6	6.4		6.0		3.2
	Sample Size		1	6		66	5		17		95
All Fish	Avg. Length	427	564	492		583	505	663	573		568
	Std. Error	17.0	3.5	6.8		2.4	3.8		4.8		3.1
	Sample Size	2	2	14		129	12	1	26		186
Statistical Week 29 (July 15 - 21)											
Male	Avg. Length		585	514		599	505		599		592
	Std. Error		14.5	49.6		3.1			7.6		4.8
	Sample Size		2	3		41	1		4		51
Female	Avg. Length		567	505		577			587		574
	Std. Error		16.5	38.2		3.1			6.6		3.7
	Sample Size		2	3		45			8		58
All Fish	Avg. Length		576	510		587	505		591		582
	Std. Error		10.4	28.1		2.5			5.2		3.1
	Sample Size		4	6		86	1		12		109
Statistical Week 30 (July 22 - 28)											
Male	Avg. Length		603	520		586			583		582
	Std. Error			9.6		2.8			19.3		3.3
	Sample Size		1	4		58			4		67
Female	Avg. Length		566	520		569		580	551		567
	Std. Error		8.3			2.9		8.0	10.1		2.7
	Sample Size		5	1		47		2	3		58
All Fish	Avg. Length		572	520		578		580	569		575
	Std. Error		9.2	7.4		2.2		8.0	12.8		2.2
	Sample Size		6	5		105		2	7		125
Statistical Weeks 31 - 39 (July 29 - Sept. 29)											
Male	Avg. Length		600	487		594	495		609	545	592
	Std. Error		5.4	49.5		2.9			10.1		3.2
	Sample Size		6	2		81	1		8	1	99
Female	Avg. Length		560	495		570	516		559		565
	Std. Error		6.9	24.0		1.8	3.0		4.2		2.0
	Sample Size		11	3		115	4		13		146
All Fish	Avg. Length		574	492		580	512		578	545	576
	Std. Error		6.7	20.5		1.8	4.8		7.0		1.9
	Sample Size		17	5		196	5		21	1	245
Combined Periods (Lengths weighted by period catches)											
Male	Avg. Length	427	584	512	615	593	517	663	588	545	585
	Std. Error	17.0	5.6	8.7		1.2	6.5		4.2		1.6
	Sample Size	2	12	25	1	386	14	1	43	1	485
Female	Avg. Length		563	509	602	573	509	580	570	565	568
	Std. Error		4.1	5.2	39.5	1.0	4.2	8.0	2.9		1.1
	Sample Size		22	30	2	453	15	2	64	1	589
All Fish	Avg. Length	427	568	510	606	583	513	622	579	552	576
	Std. Error	17.0	4.0	4.8	23.2	0.9	3.8	28.0	2.6	10.0	1.0
	Sample Size	2	34	55	3	840	29	3	107	2	1075

Appendix B.11. Age composition of sockeye salmon in the Stikine River Canadian Commercial gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class									
	1987	1986		1985			1984		1983	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 26 (June 24 - 30)										
Male										
Sample Size	1	1	2		37	2	3	4		50
Percent	1.0	1.0	2.0		36.6	2.0	3.0	4.0		49.5
Std. Error	0.8	0.8	1.1		3.9	1.1	1.4	1.6		4.0
Number	3	3	6		104	6	8	11		141
Female										
Sample Size		3	1		41	1		5		51
Percent		3.0	1.0		40.6	1.0		5.0		50.5
Std. Error		1.4	0.8		3.9	0.8		1.7		4.0
Number		8	3		116	3		14		144
All Fish										
Sample Size	1	4	3		78	3	3	9		101
Percent	1.0	4.0	3.0		77.2	3.0	3.0	8.9		100.0
Std. Error	0.8	1.6	1.4		3.4	1.4	1.4	2.3		
Number	3	11	9		220	9	8	25		285
Statistical Week 27 (July 1 - 7)										
Male										
Sample Size	1	2	4		126	4	1	19		157
Percent	0.3	0.7	1.3		42.3	1.3	0.3	6.4		52.7
Std. Error	0.3	0.4	0.6		2.5	0.6	0.3	1.2		2.6
Number	4	9	18		566	18	4	86		705
Female										
Sample Size		1	10		116	3		11		141
Percent		0.3	3.4		38.9	1.0		3.7		47.3
Std. Error		0.3	0.9		2.5	0.5		1.0		2.6
Number		4	45		522	13		49		633
All Fish										
Sample Size	1	3	14		242	7	1	30		298
Percent	0.3	1.0	4.7		81.2	2.3	0.3	10.1		100.0
Std. Error	0.3	0.5	1.1		2.0	0.8	0.3	1.5		
Number	4	13	63		1,088	31	4	135		1,338
Statistical Week 28 (July 8 - 14)										
Male										
Sample Size	1	2	15	1	115	7		12		153
Percent	0.3	0.7	5.1	0.3	38.9	2.4		4.1		51.7
Std. Error	0.3	0.4	1.2	0.3	2.7	0.8		1.1		2.7
Number	8	16	119	8	916	56		95		1,218
Female										
Sample Size		2	13		108	8		12		143
Percent		0.7	4.4		36.5	2.7		4.1		48.3
Std. Error		0.4	1.1		2.6	0.9		1.1		2.7
Number		16	104		860	63		96		1,139
All Fish										
Sample Size	1	4	28	1	223	15		24		296
Percent	0.3	1.4	9.5	0.3	75.3	5.1		8.1		100.0
Std. Error	0.3	0.6	1.6	0.3	2.3	1.2		1.5		
Number	8	32	223	8	1,776	119		191		2,357
Statistical Week 29 (July 15 - 21)										
Male										
Sample Size	1	3	20		87	4		7		122
Percent	0.4	1.1	7.5		32.6	1.5		2.6		45.7
Std. Error	0.4	0.6	1.6		2.8	0.7		1.0		3.0
Number	18	55	364		1,585	73		127		2,222
Female										
Sample Size		3	20		100	11	2	9		145
Percent		1.1	7.5		37.5	4.1	0.7	3.4		54.3
Std. Error		0.6	1.6		2.9	1.2	0.5	1.1		3.0
Number		55	365		1,821	200	36	164		2,641
All Fish										
Sample Size	1	6	40		187	15	2	16		267
Percent	0.4	2.2	15.0		70.0	5.6	0.7	6.0		100.0
Std. Error	0.4	0.9	2.1		2.7	1.4	0.5	1.4		
Number	18	110	729		3,406	273	36	291		4,863

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	Brood Year and Age Class									
	1987	1986		1985			1984		1983	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 30 (July 22 - 28)										
Male										
Sample Size		2	21	1	82	5		12		123
Percent		0.9	9.0	0.4	35.0	2.1		5.1		52.6
Std. Error		0.5	1.7	0.4	2.8	0.9		1.3		2.9
Number		10	110	5	428	26		63		642
Female										
Sample Size		1	17		78	6		8	1	111
Percent		0.4	7.3		33.3	2.6		3.4	0.4	47.4
Std. Error		0.4	1.5		2.8	0.9		1.1	0.4	2.9
Number		5	89		407	31		42	5	579
All Fish										
Sample Size		3	38	1	160	11		20	1	234
Percent		1.3	16.2	0.4	68.4	4.7		8.5	0.4	100.0
Std. Error		0.7	2.2	0.4	2.7	1.2		1.6	0.4	
Number		15	199	5	835	57		105	5	1,221
Statistical Week 31 (July 29 - August 4)										
Male										
Sample Size	1	2	14		73	3	4	3		100
Percent	0.4	0.9	6.1		31.6	1.3	1.7	1.3		43.3
Std. Error	0.4	0.5	1.3		2.6	0.6	0.7	0.6		2.8
Number	4	8	53		275	11	15	11		377
Female										
Sample Size		2	9		105	7	1	7		131
Percent		0.9	3.9		45.5	3.0	0.4	3.0		56.7
Std. Error		0.5	1.1		2.8	1.0	0.4	1.0		2.8
Number		7	34		395	27	4	26		493
All Fish										
Sample Size	1	4	23		178	10	5	10		231
Percent	0.4	1.7	10.0		77.1	4.3	2.2	4.3		100.0
Std. Error	0.4	0.7	1.7		2.4	1.2	0.8	1.2		
Number	4	15	87		670	38	19	37		870
Statistical Weeks 32 - 38 (August 5 - Sept. 22)										
Male										
Sample Size	4	2	55		121	2		8		192
Percent	0.7	0.3	9.5		20.8	0.3		1.4		33.0
Std. Error	0.3	0.2	1.1		1.5	0.2		0.4		1.8
Number	25	12	340		748	12		49		1,186
Female										
Sample Size		13	21	1	331	6	5	13		390
Percent		2.2	3.6	0.2	56.9	1.0	0.9	2.2		67.0
Std. Error		0.6	0.7	0.2	1.9	0.4	0.4	0.6		1.8
Number		80	130	6	2,045	37	31	81		2,410
All Fish										
Sample Size	4	15	76	1	452	8	5	21		582
Percent	0.7	2.6	13.1	0.2	77.7	1.4	0.9	3.6		100.0
Std. Error	0.3	0.6	1.3	0.2	1.6	0.4	0.4	0.7		
Number	25	92	470	6	2,793	49	31	130		3,596
Combined Periods (Percentages are weighted by period catches)										
Male										
Sample Size	9	14	131	2	641	27	8	65		897
Percent	0.4	0.8	6.9	0.1	31.8	1.4	0.2	3.0		44.7
Std. Error	0.2	0.2	0.6	0.1	1.2	0.3	0.1	0.4		1.2
Number	62	113	1,010	13	4,622	202	27	442		6,491
Female										
Sample Size		25	91	1	879	42	8	65	1	1,112
Percent		1.2	5.3	<0.1	42.4	2.6	0.5	3.2	<0.1	55.3
Std. Error		0.3	0.6	<0.1	1.2	0.4	0.2	0.4	<0.1	1.2
Number		175	770	6	6,166	376	71	472	5	8,039
All Fish										
Sample Size	9	39	222	3	1,520	69	16	130	1	2,009
Percent	0.4	2.0	12.2	0.1	74.2	4.0	0.7	6.3	<0.1	100.0
Std. Error	0.2	0.4	0.9	0.1	1.1	0.5	0.2	0.6	<0.1	
Number	62	288	1,780	19	10,788	576	98	914	5	14,530

Appendix B.12. Length composition of sockeye salmon in the Stikine River Canadian Commercial gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class									
		1987	1986		1985			1984		1983	
		0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 26 (June 24 - 30)											
Male	Avg. Length	453	567	565		594	560	620	607		591
	Std. Error			32.0		5.1	21.5	11.5	4.5		5.2
	Sample Size	1	1	2		37	2	3	4		50
Female	Avg. Length		587	592		583	607		581		584
	Std. Error		11.1			4.9			11.3		4.1
	Sample Size		3	1		41	1		5		51
All Fish	Avg. Length	453	582	574		588	575	620	593		587
	Std. Error		9.2	20.6		3.6	20.1	11.5	7.8		3.3
	Sample Size	1	4	3		78	3	3	9		101
Statistical Week 27 (July 1 - 7)											
Male	Avg. Length	451	624	521		597	525	631	601		593
	Std. Error		38.5	10.4		2.3	17.9		5.6		2.6
	Sample Size	1	2	4		126	4	1	19		157
Female	Avg. Length		542	538		576	535		569		571
	Std. Error			15.5		2.2	9.2		5.5		2.4
	Sample Size		1	10		116	3		11		141
All Fish	Avg. Length	451	596	533		587	529	631	589		583
	Std. Error		35.1	11.4		1.8	10.4		4.9		1.9
	Sample Size	1	3	14		242	7	1	30		298
Statistical Week 28 (July 8 - 14)											
Male	Avg. Length	441	578	531	602	589	530		589		579
	Std. Error			8.8		1.9	5.5		5.4		2.5
	Sample Size	1	2	15	1	115	7		12		153
Female	Avg. Length		589	519		568	523		571		562
	Std. Error		10.0	7.0		1.7	8.4		5.3		2.1
	Sample Size		2	13		108	8		12		143
All Fish	Avg. Length	441	584	525	602	579	526		580		571
	Std. Error		5.2	5.7		1.4	5.1		4.2		1.7
	Sample Size	1	4	28	1	223	15		24		296
Statistical Week 29 (July 15 - 21)											
Male	Avg. Length	436	588	510		591	510		590		573
	Std. Error		11.7	11.4		2.2	7.0		7.2		4.0
	Sample Size	1	3	20		87	4		7		122
Female	Avg. Length		556	499		569	501	574	567		554
	Std. Error		15.0	4.9		2.3	7.4	30.0	12.0		3.1
	Sample Size		3	20		100	11	2	9		145
All Fish	Avg. Length	436	572	505		579	503	574	577		563
	Std. Error		11.2	6.2		1.8	5.7	30.0	7.8		2.5
	Sample Size	1	6	40		187	15	2	16		267
Statistical Week 30 (July 22 - 28)											
Male	Avg. Length		588	491	540	583	505		573		563
	Std. Error		1.5	10.9		2.1	12.6		8.3		4.1
	Sample Size		2	21	1	82	5		12		123
Female	Avg. Length		554	509		562	509		565	535	551
	Std. Error			6.4		2.9	9.9		7.4		3.1
	Sample Size		1	17		78	6		8	1	111
All Fish	Avg. Length		576	499	540	572	507		570	535	557
	Std. Error		11.2	6.8		2.0	7.5		5.7		2.6
	Sample Size		3	38	1	160	11		20	1	234
Statistical Week 31 (July 29 - August 4)											
Male	Avg. Length	504	572	477		587	552	596	594		570
	Std. Error		11.5	13.2		2.9	32.5	13.9	8.9		4.9
	Sample Size	1	2	14		73	3	4	3		100
Female	Avg. Length		565	515		567	506	634	554		560
	Std. Error		20.0	12.0		1.9	11.7		11.5		2.5
	Sample Size		2	9		105	7	1	7		131
All Fish	Avg. Length	504	568	492		575	520	604	566		564
	Std. Error		9.6	10.0		1.8	13.5	13.2	10.2		2.6
	Sample Size	1	4	23		178	10	5	10		231
Statistical Weeks 32 - 38 (August 5 - Sept. 22)											
Male	Avg. Length	426	583	517		583	551		563		560
	Std. Error	10.4	5.0	8.5		2.7	28.5		13.2		3.9
	Sample Size	4	2	55		121	2		8		192
Female	Avg. Length		553	508	581	564	525	577	561		560
	Std. Error		6.6	8.2		1.2	8.6	13.0	8.6		1.4
	Sample Size		13	21	1	331	6	5	13		390
All Fish	Avg. Length	426	557	515	581	569	531	577	561		560
	Std. Error	10.4	6.3	6.5		1.2	9.3	13.0	7.1		1.6
	Sample Size	4	15	76	1	452	8	5	21		582
Combined Periods (Lengths weighted by period catches)											
Male	Avg. Length	440	587	514	581	588	528	618	583		572
	Std. Error	9.5	6.6	4.9	31.0	1.0	6.2	9.1	3.4		1.5
	Sample Size	9	14	131	2	641	27	8	65		897
Female	Avg. Length		560	512	581	568	516	581	566	535	559
	Std. Error		5.0	3.6		0.8	4.5	12.1	3.2		0.9
	Sample Size		25	91	1	879	42	8	65	1	1112
All Fish	Avg. Length	440	573	513	581	577	519	585	574	535	565
	Std. Error	9.5	4.4	3.2	18.2	0.7	3.7	8.1	2.5		0.8
	Sample Size	9	39	222	3	1520	69	16	130	1	2009

Appendix B.13. Age composition of sockeye salmon in the District 111 gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987		1986		1985			1984		1983		
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)												
Male												
Sample Size			6	14		183			12			215
Percent			1.6	3.7		48.9			3.2			57.5
Std. Error			0.6	0.9		2.4			0.9			2.4
Number			53	123		1,608			106			1,890
Female												
Sample Size			1	14		131		1	12			159
Percent			0.3	3.7		35.0		0.3	3.2			42.5
Std. Error			0.3	0.9		2.3		0.3	0.9			2.4
Number			9	123		1,151		9	105			1,397
All Fish												
Sample Size			7	28		314		1	24			374
Percent			1.9	7.5		84.0		0.3	6.4			100.0
Std. Error			0.7	1.3		1.8		0.3	1.2			
Number			62	246		2,759		9	211			3,287
Statistical Week 26 (June 24 - 30)												
Male												
Sample Size			15	26		338	3	1	33	1		417
Percent			2.4	4.2		54.7	0.5	0.2	5.3	0.2		67.5
Std. Error			0.6	0.8		1.9	0.3	0.2	0.9	0.2		1.8
Number			203	352		4,578	40	14	447	14		5,648
Female												
Sample Size			3	26		153	1		18			201
Percent			0.5	4.2		24.8	0.2		2.9			32.5
Std. Error			0.3	0.8		1.7	0.2		0.7			1.8
Number			41	352		2,071	14		244			2,722
All Fish												
Sample Size			18	52		491	4	1	51	1		618
Percent			2.9	8.4		79.4	0.6	0.2	8.3	0.2		100.0
Std. Error			0.7	1.1		1.6	0.3	0.2	1.1	0.2		
Number			244	704		6,649	54	14	691	14		8,370
Statistical Week 27 (July 1 - 7)												
Male												
Sample Size			10	7		213	2	1	37			270
Percent			1.7	1.2		37.2	0.3	0.2	6.5			47.1
Std. Error			0.5	0.4		2.0	0.2	0.2	1.0			2.0
Number			183	128		3,888	37	18	675			4,929
Female												
Sample Size	1		14	18		241	5		24			303
Percent	0.2		2.4	3.1		42.1	0.9		4.2			52.9
Std. Error	0.2		0.6	0.7		2.0	0.4		0.8			2.0
Number	18		256	329		4,400	91		438			5,532
All Fish												
Sample Size	1		24	30		481	7	1	64			608
Percent	0.2		3.9	4.9		79.1	1.2	0.2	10.5			100.0
Std. Error	0.2		0.8	0.9		1.6	0.4	0.2	1.2			
Number	18		439	548		8,781	128	18	1,168			11,100
Statistical Week 28 (July 8 - 14)												
Male												
Sample Size	1		15	15		177	10	1	27			246
Percent	0.2		2.6	2.6		30.3	1.7	0.2	4.6			42.1
Std. Error	0.2		0.6	0.6		1.9	0.5	0.2	0.9			2.0
Number	32		480	480		5,658	320	32	863			7,865
Female												
Sample Size			24	25		238	4	1	47			339
Percent			4.1	4.3		40.7	0.7	0.2	8.0			57.9
Std. Error			0.8	0.8		2.0	0.3	0.2	1.1			2.0
Number			767	799		7,610	128	32	1,503			10,839
All Fish												
Sample Size	1		39	40		415	14	2	74			585
Percent	0.2		6.7	6.8		70.9	2.4	0.3	12.6			100.0
Std. Error	0.2		1.0	1.0		1.8	0.6	0.2	1.4			
Number	32		1,247	1,279		13,268	448	64	2,366			18,704
Statistical Week 29 (July 15 - 21)												
Male												
Sample Size	3		22	13	1	141	4	1	23			208
Percent	0.5		3.6	2.1	0.2	23.2	0.7	0.2	3.8			34.3
Std. Error	0.3		0.8	0.6	0.2	1.7	0.3	0.2	0.8			1.9
Number	125		920	544	41	5,896	167	42	962			8,697
Female												
Sample Size	1		35	23	2	292	9	1	36			399
Percent	0.2		5.8	3.8	0.3	48.1	1.5	0.2	5.9			65.7
Std. Error	0.2		0.9	0.8	0.2	2.0	0.5	0.2	0.9			1.9
Number	42		1,463	962	84	12,210	376	42	1,505			16,684
All Fish												
Sample Size	4		57	36	3	433	13	2	59			607
Percent	0.7		9.4	5.9	0.5	71.3	2.1	0.3	9.7			100.0
Std. Error	0.3		1.2	0.9	0.3	1.8	0.6	0.2	1.2			
Number	167		2,383	1,506	125	18,106	543	84	2,467			25,381
Statistical Week 30 (July 22 - 28)												
Male												
Sample Size	5		39	26		128	4	2	16			220
Percent	0.8		6.6	4.4		21.5	0.7	0.3	2.7			37.0
Std. Error	0.4		1.0	0.8		1.7	0.3	0.2	0.7			2.0
Number	221		1,723	1,149		5,655	177	88	707			9,720
Female												
Sample Size	5		75	38	2	231	8		15			374
Percent	0.8		12.6	6.4	0.3	38.9	1.3		2.5			63.0
Std. Error	0.4		1.3	1.0	0.2	2.0	0.5		0.6			2.0
Number	221		3,314	1,679	88	10,207	353		663			16,525
All Fish												
Sample Size	10		114	64	2	359	12	2	31			594
Percent	1.7		19.2	10.8	0.3	60.4	2.0	0.3	5.2			100.0
Std. Error	0.5		1.5	1.3	0.2	2.0	0.6	0.3	0.9			
Number	442		5,037	2,828	88	15,862	530	88	1,370			26,245

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	Brood Year and Age Class											
	1987		1986		1985			1984		1983		
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	3.3	Total
Statistical Week 31 (July 29 - August 4)												
Male												
Sample Size			15	9	1	71	4		7			107
Percent			4.2	2.5	0.3	19.9	1.1		2.0			30.1
Std. Error			1.0	0.8	0.3	2.1	0.5		0.7			2.4
Number			203	170	19	1,336	75		132			2,015
Female												
Sample Size	2		41	23		157	9	1	16			249
Percent	0.6		11.5	6.5		44.1	2.5	0.3	4.5			69.9
Std. Error	0.4		1.6	1.3		2.6	0.8	0.3	1.1			2.4
Number	38		772	433		2,957	170	19	301			4,690
All Fish												
Sample Size	2		56	32	1	229	13	1	23			357
Percent	0.6		15.7	9.0	0.3	64.1	3.6	0.3	6.4			100.0
Std. Error	0.4		1.9	1.5	0.3	2.5	1.0	0.3	1.3			
Number	38		1,055	603	19	4,312	245	19	433			6,724
Statistical Week 32 (August 5 - 11)												
Male												
Sample Size	5		23	24		111	14	3	8			188
Percent	0.8		3.9	4.1		18.8	2.4	0.5	1.4			31.9
Std. Error	0.4		0.9	0.8		1.6	0.6	0.3	0.5			1.9
Number	107		491	513		2,372	299	64	171			4,017
Female												
Sample Size	6		56	54		237	27	3	17	1		401
Percent	1.0		9.5	9.2		40.2	4.6	0.5	2.9	0.2		68.1
Std. Error	0.4		1.2	1.2		2.0	0.8	0.3	0.7	0.2		1.9
Number	128		1,197	1,154		5,064	577	64	363	21		8,568
All Fish												
Sample Size	11		79	78		348	41	6	25	1		589
Percent	1.9		13.4	13.2		59.1	7.0	1.0	4.2	0.2		100.0
Std. Error	0.5		1.4	1.4		2.0	1.0	0.4	0.8	0.2		
Number	235		1,688	1,667		7,436	876	128	534	21		12,585
Statistical Week 33 (August 12 - 18)												
Male												
Sample Size	7	1	34	41	2	143	22	2	16			268
Percent	1.2	0.2	6.0	7.3	0.4	25.4	3.9	0.4	2.8			47.6
Std. Error	0.5	0.2	1.0	1.1	0.2	1.8	0.8	0.2	0.7			2.0
Number	115	16	558	672	33	2,345	361	33	263			4,396
Female												
Sample Size	2		28	29	4	205	14		13			295
Percent	0.4		5.0	5.2	0.7	36.4	2.5		2.3			52.4
Std. Error	0.2		0.9	0.9	0.3	2.0	0.6		0.6			2.0
Number	33		459	476	66	3,362	229		213			4,838
All Fish												
Sample Size	9	1	62	70	6	348	36	2	29			563
Percent	1.6	0.2	11.0	12.4	1.1	61.8	6.4	0.4	5.2			100.0
Std. Error	0.5	0.2	1.3	1.3	0.4	2.0	1.0	0.2	0.9			
Number	148	16	1,017	1,148	99	5,707	590	33	476			9,234
Statistical Weeks 34 - 39 (August 19 - Sept. 29)												
Male												
Sample Size	1	1	14	37		116	22	1	38	1		231
Percent	0.2	0.2	2.6	6.9		21.7	4.1	0.2	7.1	0.2		43.2
Std. Error	0.2	0.2	0.7	1.0		1.7	0.8	0.2	1.1	0.2		2.0
Number	10	10	137	363		1,140	216	10	373	10		2,269
Female												
Sample Size	1		23	17		209	18	1	35			304
Percent	0.2		4.3	3.2		39.1	3.4	0.2	6.5			56.8
Std. Error	0.2		0.8	0.7		2.0	0.7	0.2	1.0			2.0
Number	10		226	167		2,051	177	10	344			2,985
All Fish												
Sample Size	2	1	37	54		325	40	2	73	1		535
Percent	0.4	0.2	6.9	10.1		60.7	7.5	0.4	13.6	0.2		100.0
Std. Error	0.3	0.2	1.0	1.2		2.0	1.1	0.3	1.4	0.2		
Number	20	10	363	530		3,191	393	20	717	10		5,254
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	22	2	193	212	4	1,621	85	12	217	1	1	2,370
Percent	0.5	<0.1	4.0	3.6	0.1	27.3	1.3	0.2	3.7	<0.1	<0.1	40.8
Std. Error	0.1	<0.1	0.3	0.3	<0.1	0.6	0.2	0.1	0.3	<0.1	<0.1	0.7
Number	610	26	5,031	4,494	93	34,476	1,692	301	4,699	14	10	51,446
Female												
Sample Size	18		300	267	8	2,094	95	8	233		1	3,024
Percent	0.4		6.7	5.1	0.2	40.5	1.7	0.1	4.5		<0.1	59.2
Std. Error	0.1		0.4	0.3	0.1	0.7	0.2	0.1	0.3		<0.1	0.7
Number	490		8,504	6,474	238	51,083	2,115	176	5,679		21	74,780
All Fish												
Sample Size	40	2	493	484	12	3,743	180	20	453	1	2	5,430
Percent	0.9	<0.1	10.7	8.7	0.3	67.8	3.0	0.4	8.2	<0.1	<0.1	100.0
Std. Error	0.1	<0.1	0.5	0.4	0.1	0.7	0.2	0.1	0.4	<0.1	<0.1	
Number	1,100	26	13,535	11,059	331	86,071	3,807	477	10,433	14	31	126,884

Appendix B.14. Length composition of sockeye salmon in the District 111 gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1987		1986		1985		1984		
		0.2	1.1	0.3	1.2	1.3	2.2	1.4	2.3	Total
Statistical Weeks 25 - 30 (June 17 - July 28)										
Male	Avg. Length	439		583	509	600	522	640	605	589
	Std. Error			17.4	10.3	2.0	27.2		5.9	2.9
	Sample Size	1		5	17	142	3	1	16	185
Female	Avg. Length			593	514	579	590		582	573
	Std. Error			9.0	7.1	1.9			3.6	2.3
	Sample Size			3	18	121	1		22	165
All Fish	Avg. Length	439		587	512	590	539	640	592	581
	Std. Error			10.9	6.1	1.5	25.7		3.7	1.9
	Sample Size	1		8	35	263	4	1	38	350
Statistical Weeks 31 - 39 (July 29 - August 29)										
Male	Avg. Length		346	593	516	592	540	647	601	577
	Std. Error		12.5	11.1	12.0	4.2	9.1		10.7	5.1
	Sample Size		2	12	8	61	13	1	10	107
Female	Avg. Length	505		559	491	574	507	598	590	561
	Std. Error			6.4	7.8	2.4	5.1		10.6	3.4
	Sample Size	1		8	12	84	9	1	9	124
All Fish	Avg. Length	505	346	579	501	582	527	623	596	568
	Std. Error		12.5	7.9	7.1	2.3	6.7	24.5	7.5	3.0
	Sample Size	1	2	20	20	145	22	2	19	231
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	439	346	586	511	598	527	642	604	586
	Std. Error		12.5	9.1	7.9	1.9	8.7	3.5	5.4	2.7
	Sample Size	1	2	17	25	203	16	2	26	292
Female	Avg. Length	505		584	508	578	568	598	584	570
	Std. Error			6.9	5.6	1.5	9.5		4.0	2.0
	Sample Size	1		11	30	205	10	1	31	289
All Fish	Avg. Length	457	346	585	509	588	535	635	593	578
	Std. Error	33.0	12.5	6.4	4.7	1.3	6.7	15.3	3.5	1.7
	Sample Size	2	2	28	55	408	26	3	57	581

Appendix B.15. Age composition of sockeye salmon in the Taku River Canadian commercial gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class									
	1987		1986		1985			1984		
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Statistical Weeks 26 - 27 (June 24 - July 7)										
Male										
Sample Size			4	24		163		2	16	209
Percent			1.0	6.3		42.6		0.5	4.2	54.6
Std. Error			0.5	1.2		2.4		0.3	1.0	2.4
Number			39	233		1,586		19	156	2,033
Female										
Sample Size			2	27		130	4		11	174
Percent			0.5	7.0		33.9	1.0		2.9	45.4
Std. Error			0.3	1.2		2.3	0.5		0.8	2.4
Number			19	263		1,264	39		107	1,692
All Fish										
Sample Size			6	51		293	4	2	27	383
Percent			1.6	13.3		76.5	1.0	0.5	7.0	100.0
Std. Error			0.6	1.6		2.1	0.5	0.3	1.2	
Number			58	496		2,850	39	19	263	3,725
Statistical Week 28 (July 8 - 14)										
All Fish										
Sample Size	3		7	26	1	143	1		10	191
Percent	1.6		3.7	13.6	0.5	74.9	0.5		5.2	100.0
Std. Error	0.9		1.3	2.4	0.5	3.1	0.5		1.6	
Number	58		136	505	19	2,777	19		194	3,709
Statistical Week 29 (July 15 - 21)										
All Fish										
Sample Size	2		14	17		132	6		25	196
Percent	1.0		7.1	8.7		67.3	3.1		12.8	100.0
Std. Error	0.7		1.8	1.9		3.2	1.2		2.3	
Number	30		209	253		1,968	89		373	2,922
Statistical Week 30 (July 22 - 28)										
All Fish										
Sample Size	6		12	36	1	102	11		11	179
Percent	3.4		6.7	20.1	0.6	57.0	6.1		6.1	100.0
Std. Error	1.3		1.8	2.9	0.5	3.6	1.8		1.8	
Number	147		295	884	25	2,504	270		270	4,394
Statistical Week 31 (July 29 - August 4)										
All Fish										
Sample Size	4		24	25		102	8		8	171
Percent	2.3		14.0	14.6		59.6	4.7		4.7	100.0
Std. Error	1.1		2.6	2.6		3.7	1.6		1.6	
Number	81		488	508		2,075	163		163	3,478
Statistical Weeks 32 - 33 (August 5 - 18)										
All Fish										
Sample Size	15	1	55	50	1	187	13		11	333
Percent	4.5	0.3	16.5	15.0	0.3	56.2	3.9		3.3	100.0
Std. Error	1.0	0.3	1.9	1.8	0.3	2.5	1.0		0.9	
Number	87	6	318	289	6	1,082	75		64	1,927
Statistical Week 34 (August 19 - 25)										
All Fish										
Sample Size	1		10	13		80	4		2	110
Percent	0.9		9.1	11.8		72.7	3.6		1.8	100.0
Std. Error	0.9		2.6	2.9		4.0	1.7		1.2	
Number	9		86	112		687	34		17	945
Combined Periods (Percentages are weighted by period catches)										
Male [a]										
Sample Size			4	24		163		2	16	209
Percent			1.0	6.3		42.6		0.5	4.2	54.6
Std. Error			0.1	0.2		0.4		0.1	0.2	0.4
Number			39	233		1,586		19	156	2,033
Female [a]										
Sample Size			2	27		130	4		11	174
Percent			0.5	7.0		33.9	1.0		2.9	45.4
Std. Error			0.1	0.2		0.4	0.1		0.1	0.4
Number			19	263		1,264	39		107	1,692
All Fish										
Sample Size	31	1	128	218	3	1,039	47	2	94	1,563
Percent	2.0	<0.1	7.5	14.4	0.2	66.1	3.3	0.1	6.4	100.0
Std. Error	0.4	<0.1	0.7	1.0	0.1	1.3	0.5	0.1	0.7	
Number	412	6	1,590	3,048	50	13,942	690	19	1,343	21,100

[a] Sexed fish information is available only for statistical weeks 26 and 27.

Appendix B.16. Length composition of sockeye salmon in the Taku River Canadian Commercial gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class									
		1987		1986		1985			1984		
		0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Statistical Weeks 26 - 27 (June 24 - July 7)											
Male	Avg. Length			583	489		594		609	607	583
	Std. Error			15.5	7.2		1.9		19.0	10.2	3.0
	Sample Size			4	24		163		2	16	209
Female	Avg. Length			593	511		577	522		579	566
	Std. Error			19.5	5.3		2.0	21.5		4.9	2.6
	Sample Size			2	27		130	4		11	174
All Fish	Avg. Length			586	501		586	522	609	595	575
	Std. Error			11.2	4.7		1.5	21.5	19.0	6.9	2.1
	Sample Size			6	51		293	4	2	27	383
Statistical Week 28 (July 8 - 14)											
All Fish	Avg. Length	471		591	507	603	583	505		582	571
	Std. Error	42.1		4.3	8.2		2.0			8.0	2.9
	Sample Size	3		7	26	1	143	1		10	191
Statistical Week 29 (July 15 - 21)											
All Fish	Avg. Length	493		571	490		577	482		575	565
	Std. Error	51.5		4.9	9.6		2.4	16.9		5.5	2.9
	Sample Size	2		14	17		132	6		25	196
Statistical Week 30 (July 22 - 28)											
All Fish	Avg. Length	432		593	478	603	584	482		593	552
	Std. Error	5.2		6.2	8.4		3.3	17.0		8.6	4.8
	Sample Size	6		12	36	1	102	11		11	179
Statistical Week 31 (July 29 - August 4)											
All Fish	Avg. Length	446		587	496		581	497		579	562
	Std. Error	18.0		5.5	11.7		2.9	18.2		12.8	4.0
	Sample Size	4		24	25		102	8		8	171
Statistical Weeks 32 - 33 (August 5 - August 18)											
All Fish	Avg. Length	473	311	564	520	609	574	513		560	556
	Std. Error	18.3		4.1	6.7		2.3	8.8		8.1	2.6
	Sample Size	15	1	55	50	1	187	13		11	333
Statistical Week 34 (August 19 - 25)											
All Fish	Avg. Length	668		562	497		559	498		574	551
	Std. Error			13.6	16.1		3.9	12.1		9.5	4.3
	Sample Size	1		10	13		80	4		2	110
Combined Periods (Lengths weighted by period catches)											
Male	Avg. Length			583	489		594		609	607	103
	Std. Error			15.5	7.2		1.9		19.0	10.2	3.0
	Sample Size			4	24		163		2	16	209
Female	Avg. Length			593	511		577	522		579	100
	Std. Error			19.5	5.3		2.0	21.5		4.9	2.6
	Sample Size			2	27		130	4		11	174
All Fish	Avg. Length	471	311	583	496	604	581	499	609	583	563
	Std. Error	12.4		2.7	3.2	2.0	0.9	6.4	19.0	3.3	1.2
	Sample Size	31	1	128	218	3	1039	47	2	94	1563

[a] Sexed fish information is available only for statistical weeks 26 and 27.

Appendix B.17. Age composition of sockeye salmon in the District 115 gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class												
	1987		1986		1985			1984			1983		
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)													
Male													
Sample Size			29	13		98	3	5	116		1		265
Percent			5.7	2.6		19.4	0.6	1.0	23.0		0.2*		52.5
Std. Error			1.0	0.7		1.7	0.3	0.4	1.8		0.2		2.1
Number			335	150		1,131	35	58	1,338		12		3,057
Female													
Sample Size			24	3		115	1	1	96				240
Percent			4.8	0.6		22.8	0.2	0.2	19.0				47.5
Std. Error			0.9	0.3		1.8	0.2	0.2	1.7				2.1
Number			277	35		1,327	12	12	1,108				2,769
All Fish													
Sample Size			53	16		213	4	6	212		1		505
Percent			10.5	3.2		42.2	0.8	1.2	42.0		0.2		100.0
Std. Error			1.3	0.7		2.1	0.4	0.5	2.1		0.2		
Number			611	185		2,457	46	69	2,446		12		5,826
Statistical Week 26 (June 24 - 30)													
Male													
Sample Size	1		40	19		96	5	3	134		4		302
Percent	0.2		6.4	3.0		15.3	0.8	0.5	21.4		0.6		48.2
Std. Error	0.2		0.9	0.7		1.4	0.3	0.3	1.6		0.3		1.9
Number	11		430	204		1,031	54	32	1,439		43		3,244
Female													
Sample Size	1		37	6		111	5	2	161		1	1	325
Percent	0.2		5.9	1.0		17.7	0.8	0.3	25.7		0.2	0.2	51.8
Std. Error	0.2		0.9	0.4		1.5	0.3	0.2	1.7		0.2	0.2	1.9
Number	11		397	64		1,192	54	21	1,729*		11	11	3,491
All Fish													
Sample Size	2		77	25		207	10	5	295		5	1	627
Percent	0.3		12.3	4.0		33.0	1.6	0.8	47.0		0.8	0.2	100.0
Std. Error	0.2		1.2	0.7		1.8	0.5	0.3	1.9		0.3	0.2	
Number	21		827	269		2,224	107	54	3,169		54	11	6,735
Statistical Week 27 (July 1 - 7)													
Male													
Sample Size	2		39	15		97	12	4	99				268
Percent	0.3		6.7	2.6		16.6	2.1	0.7	16.9				45.8
Std. Error	0.2		1.0	0.6		1.5	0.6	0.3	1.5				2.0
Number	73		1,422	547		3,536	437	146	3,609				9,768
Female													
Sample Size			49	8		138	5	2	114		1		317
Percent			8.4	1.4		23.6	0.9	0.3	19.5		0.2		54.2
Std. Error			1.1	0.5		1.7	0.4	0.2	1.6		0.2		2.0
Number			1,786	292		5,030	182	73	4,155		36		11,555
All Fish													
Sample Size	2		88	23		235	17	6	213		1		585
Percent	0.3		15.0	3.9		40.2	2.9	1.0	36.4		0.2		100.0
Std. Error	0.2		1.5	0.8		2.0	0.7	0.4	2.0		0.2		
Number	73		3,208	838		8,566	620	219	7,764		36		21,323
Statistical Week 28 (July 8 - 14)													
Male													
Sample Size	1		14	13		84	6	1	59		2		180
Percent	0.3		3.6	3.3		21.3	1.5	0.3	15.0		0.5		45.7
Std. Error	0.3		0.9	0.9		2.0	0.6	0.3	1.8		0.4		2.5
Number	37		518	481		3,109	222	37	2,184		74		6,663
Female													
Sample Size			11	3		94	6	5	94		1		214
Percent			2.8	0.8		23.9	1.5	1.3	23.9		0.3		54.3
Std. Error			0.8	0.4		2.1	0.6	0.6	2.1		0.3		2.5
Number			407	111		3,479	222	185	3,479		37		7,921
All Fish													
Sample Size	1		25	16		178	12	6	153		3		394
Percent	0.3		6.3	4.1		45.2	3.0	1.5	38.8		0.8		100.0
Std. Error	0.3		1.2	1.0		2.5	0.9	0.6	2.4		0.4		
Number	37		925	592		6,589	444	222	5,663		111		14,584
Statistical Week 29 (July 15 - 21)													
Male													
Sample Size			1	15		124	8	2	116		4	1	271
Percent			0.2	2.6		21.4	1.4	0.3	20.0		0.7	0.2	46.7
Std. Error			0.2	0.6		1.7	0.5	0.2	1.6		0.3	0.2	2.0
Number			31	465		3,843	248	62	3,595		124	31	8,399
Female													
Sample Size			7	8		172	20	1	101				309
Percent			1.2	1.4		29.7	3.4	0.2	17.4				53.3
Std. Error			0.4	0.5		1.9	0.7	0.2	1.6				2.0
Number			217	248		5,331	620	31	3,130				9,576
All Fish													
Sample Size			8	23		296	28	3	217		4	1	580
Percent			1.4	4.0		51.0	4.8	0.5	37.4		0.7	0.2	100.0
Std. Error			0.5	0.8		2.0	0.9	0.3	2.0		0.3	0.2	
Number			248	713		9,173	868	93	6,725		124	31	17,975
Statistical Week 30 (July 22 - 28)													
Male													
Sample Size		1	9	44		165	17	1	120				357
Percent		0.1	1.2	5.9		22.1	2.3	0.1	16.1				47.9
Std. Error		0.1	0.4	0.9		1.5	0.5	0.1	1.3				1.8
Number		75	679	3,319		12,445	1,282	75	9,051				26,925
Female													
Sample Size			22	19		171	20	1	155				388
Percent			3.0	2.6		23.0	2.7	0.1	20.8				52.1
Std. Error			0.6	0.6		1.5	0.6	0.1	1.5				1.8
Number			1,659	1,433		12,897	1,508	75	11,690				29,264
All Fish													
Sample Size		1	31	63		336	37	2	275				745
Percent		0.1	4.2	8.5		45.1	5.0	0.3	36.9				100.0
Std. Error		0.1	0.7	1.0		1.8	0.8	0.2	1.8				
Number		75	2,338	4,752		25,342	2,791	151	20,741				56,189

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	Brood Year and Age Class												
	1987		1986		1985			1984			1983		
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 31 (July 29 - August 4)													
Male													
Sample Size			14	20		140	20	2	112				308
Percent			2.0	2.9		20.5	2.9	0.3	16.4				45.0
Std. Error			0.5	0.6		1.5	0.6	0.2	1.4				1.9
Number			908	1,297		9,080	1,297	130	7,264				19,975
Female													
Sample Size			13	8		190	18		146		1		376
Percent			1.9	1.2		27.8	2.6		21.3		0.1		55.0
Std. Error			0.5	0.4		1.7	0.6		1.6		0.1		1.9
Number			843	519		12,322	1,167		9,469		65		24,385
All Fish													
Sample Size			27	28		330	38	2	258		1		684
Percent			3.9	4.1		48.2	5.6	0.3	37.7		0.1		100.0
Std. Error			0.7	0.8		1.9	0.9	0.2	1.8		0.1		
Number			1,751	1,816		21,402	2,464	130	16,732		65		44,360
Statistical Week 32 (August 5 - 11)													
Male													
Sample Size			15	11		147	55		162		1	1	392
Percent			1.9	1.4		18.4	6.9		20.3		0.1	0.1	49.1
Std. Error			0.5	0.4		1.4	0.9		1.4		0.1	0.1	1.8
Number			1,212	889		11,874	4,443		13,086		81	81	31,665
Female													
Sample Size			14	2	1	150	45		194				406
Percent			1.8	0.3	0.1	18.8	5.6		24.3				50.9
Std. Error			0.5	0.2	0.1	1.4	0.8		1.5				1.8
Number			1,131	162	81	12,117	3,635		15,671				32,796
All Fish													
Sample Size			29	13	1	297	100		356		1	1	798
Percent			3.6	1.6	0.1	37.2	12.5		44.6		0.1	0.1	100.0
Std. Error			0.7	0.4	0.1	1.7	1.2		1.7		0.1	0.1	
Number			2,343	1,050	81	23,991	8,078		28,757		81	81	64,461
Statistical Week 33 (August 12 - 18)													
Male													
Sample Size			6	6	1	96	78	1	200	1	3		392
Percent			0.7	0.7	0.1	12.0	9.7	0.1	25.0	0.1	0.4		48.9
Std. Error			0.3	0.3	0.1	1.1	1.0	0.1	1.5	0.1	0.2		1.8
Number			501	501	83	8,011	6,509	83	16,689	83	250		32,711
Female													
Sample Size			7	2	1	106	82		209	1		1	409
Percent			0.9	0.2	0.1	13.2	10.2		26.1	0.1		0.1	51.1
Std. Error			0.3	0.2	0.1	1.2	1.1		1.5	0.1		0.1	1.8
Number			584	167	83	8,845	6,843		17,440	83		83	34,130
All Fish													
Sample Size			13	8	2	202	160	1	409	2	3	1	801
Percent			1.6	1.0	0.2	25.2	20.0	0.1	51.1	0.2	0.4	0.1	100.0
Std. Error			0.4	0.3	0.2	1.5	1.4	0.1	1.8	0.2	0.2	0.1	
Number			1,085	668	167	16,856	13,352	83	34,130	167	250	83	66,841
Statistical Weeks 34 - 35 (August 19 - Sept. 1)													
Male													
Sample Size				6		29	183		192	3	1		414
Percent				0.7		3.5	22.3		23.4	0.4	0.1		50.5
Std. Error				0.3		0.6	1.4		1.5	0.2	0.1		1.7
Number				383		1,853	11,694		12,270	192	64		26,456
Female													
Sample Size				2		25	153		222	3	1		406
Percent				0.2		3.0	18.7		27.1	0.4	0.1		49.5
Std. Error				0.2		0.6	1.4		1.5	0.2	0.1		1.7
Number				128		1,598	9,777		14,187	192	64		25,945
All Fish													
Sample Size				8		54	336		414	6	2		820
Percent				1.0		6.6	41.0		50.5	0.7	0.2		100.0
Std. Error				0.3		0.9	1.7		1.7	0.3	0.2		
Number				511		3,451	21,472		26,456	383	128		52,401
Statistical Weeks 36 - 37 (Sept. 2 - Sept. 15)													
Male													
Sample Size				3		54	301		321	11	2		692
Percent				0.2		4.2	23.5		25.1	0.9	0.2		54.0
Std. Error				0.1		0.5	1.1		1.1	0.2	0.1		1.3
Number				16		283	1,580		1,685	58	10		3,632
Female													
Sample Size			1	5		62	204	1	312	3	1		589
Percent			0.1	0.4		4.8	15.9	0.1	24.4	0.2	0.1		46.0
Std. Error			0.1	0.2		0.5	0.9	0.1	1.1	0.1	0.1		1.3
Number			5	26		325	1,071	5	1,637	16	5		3,091
All Fish													
Sample Size			1	8		116	505	1	633	14	3		1,281
Percent			0.1	0.6		9.1	39.4	0.1	49.4	1.1	0.2		100.0
Std. Error			0.1	0.2		0.7	1.2	0.1	1.3	0.3	0.1		
Number			5	42		609	2,650	5	3,322	73	16		6,723
Combined Periods (Percentages are weighted by period catches)													
Male													
Sample Size	4	1	167	165	1	1,130	688	19	1,631	15	18	2	3,841
Percent	<0.1	<0.1	1.7	2.3	<0.1	15.7	7.8	0.2	20.2	0.1	0.2	<0.1	48.3
Std. Error	<0.1	<0.1	0.2	0.2	<0.1	0.5	0.4	<0.1	0.5	<0.1	0.1	<0.1	0.7
Number	121	75	6,034	8,251	83	56,196	27,801	623	72,209	333	658	112	172,496
Female													
Sample Size	1		185	66	2	1,334	559	13	1,804	7	6	2	3,979
Percent	<0.1		2.0	0.9	<0.1	18.0	7.0	0.1	23.4	0.1	0.1	<0.1	51.7
Std. Error	<0.1		0.2	0.1	<0.1	0.5	0.3	<0.1	0.6	<0.1	<0.1	<0.1	0.7
Number	11		7,307	3,184	164	64,463	25,091	403	83,696	291	218	94	184,922
All Fish													
Sample Size	5	1	352	231	3	2,464	1,247	32	3,435	22	24	4	7,820
Percent	<0.1	<0.1	3.7	3.2	0.1	33.8	14.8	0.3	43.6	0.2	0.2	0.1	100.0
Std. Error	<0.1	<0.1	0.2	0.2	<0.1	0.6	0.5	0.1	0.7	0.1	0.1	<0.1	
Number	131	75	13,341	11,435	248	120,659	52,892	1,026	155,905	624	876	206	357,418

Appendix B.18. Length composition of sockeye salmon in the District 115 gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class									
		1986		1985		1984			1983		
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 25 (June 17 - 23)											
Male	Avg. Length	590	526	602	527		578		590		585
	Std. Error	9.6	17.0	4.2			5.2				3.7
	Sample Size	7	5	35	1		46		1		95
Female	Avg. Length	568	535	579			582				578
	Std. Error	5.1		2.9			3.9				2.2
	Sample Size	9	1	43			34				87
All Fish	Avg. Length	577	528	589	527		580		590		582
	Std. Error	5.6	13.9	2.8			3.4				2.2
	Sample Size	16	6	78	1		80		1		182
Statistical Week 26 (June 24 - 30)											
Male	Avg. Length	589	528	593	565	610	579		580		581
	Std. Error	5.8	9.7	4.9			5.4				3.5
	Sample Size	11	8	33	1	1	32		1		87
Female	Avg. Length	571	513	572	503	590	568			590	568
	Std. Error	5.7	27.3	3.4			4.1				2.7
	Sample Size	16	3	38	1	1	54			1	114
All Fish	Avg. Length	578	524	582	534	600	572		580	590	574
	Std. Error	4.4	9.6	3.2	31.0	10.0	3.3				2.2
	Sample Size	27	11	71	2	2	86		1	1	201
Statistical Week 27 (July 1 - 7)											
Male	Avg. Length	579	535	595	539		598				587
	Std. Error	13.5	7.8	5.4	26.2		5.2				4.2
	Sample Size	7	5	26	5		31				74
Female	Avg. Length	568	537	583	522	585	580				576
	Std. Error	3.8	28.4	3.6	33.9		4.2				2.7
	Sample Size	22	4	47	3	1	36				113
All Fish	Avg. Length	570	536	587	533	585	588				580
	Std. Error	4.3	12.3	3.0	19.5		3.5				2.4
	Sample Size	29	9	73	8	1	67				187
Statistical Week 28 (July 8 - 14)											
Male	Avg. Length	541	508	587	538		588				581
	Std. Error		17.4	3.7			4.2				3.9
	Sample Size	1	4	28	1		26				60
Female	Avg. Length		494	576	523	587	574				573
	Std. Error			2.9	41.0	8.9	3.4				2.6
	Sample Size		1	34	2	3	36				76
All Fish	Avg. Length	541	505	581	528	587	580				576
	Std. Error		13.8	2.4	24.2	8.9	2.8				2.3
	Sample Size	1	5	62	3	3	62				136
Statistical Week 29 (July 15 - 21)											
Male	Avg. Length		525	595	524	620	586		611		586
	Std. Error			3.9	24.9		5.1				3.7
	Sample Size		1	38	5	1	37		1		83
Female	Avg. Length	600	548	570	536		577				571
	Std. Error		32.5	3.3	10.9		2.9				2.4
	Sample Size	1	2	58	4		40				105
All Fish	Avg. Length	600	540	580	529	620	582		611		578
	Std. Error		20.2	2.8	14.0		2.9				2.2
	Sample Size	1	3	96	9	1	77		1		188
Statistical Week 30 (July 22 - 28)											
Male	Avg. Length	574	484	586	508	684	590				565
	Std. Error	14.4	8.4	4.8	19.5		3.8				5.0
	Sample Size	3	18	41	9	1	40				112
Female	Avg. Length	575	516	576	523		577				568
	Std. Error	18.0	13.9	3.4	21.4		4.7				3.6
	Sample Size	2	8	45	9		50				114
All Fish	Avg. Length	574	493	581	516	684	583				567
	Std. Error	9.7	7.7	2.9	14.1		3.2				3.1
	Sample Size	5	26	86	18	1	90				226

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		Brood Year and Age Class									
		1986		1985		1984			1983		
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 31 (July 29 - August 4)											
Male	Avg. Length	554	498	587	566		594				576
	Std. Error	25.2	8.6	4.3	6.7		7.3				4.5
	Sample Size	3	10	44	7		25				89
Female	Avg. Length	567	457	573	508		580				569
	Std. Error	12.5	18.6	3.1	16.2		4.6				3.4
	Sample Size	3	3	59	4		31				100
All Fish	Avg. Length	561	489	579	545		586				572
	Std. Error	12.9	9.0	2.7	11.1		4.2				2.8
	Sample Size	6	13	103	11		56				189
Statistical Week 32 (August 5 - 11)											
Male	Avg. Length	595	454	586	547		597		606		579
	Std. Error	12.0	19.4	3.2	6.0		4.3				3.7
	Sample Size	2	6	53	17		49		1		128
Female	Avg. Length	580		577	531		580				575
	Std. Error	9.9		4.4	15.5		3.2				2.9
	Sample Size	4		33	10		66				113
All Fish	Avg. Length	585	454	583	541		587		606		577
	Std. Error	7.6	19.4	2.6	6.9		2.7				2.4
	Sample Size	6	6	86	27		115		1		241
Statistical Week 33 (August 12 - 18)											
Male	Avg. Length	601	542	590	568		605	572			592
	Std. Error	6.4	2.5	5.0	6.1		3.7				2.9
	Sample Size	3	2	32	25		62	1			125
Female	Avg. Length	560		581	554		583	547		627	576
	Std. Error	4.5		4.1	4.8		3.5				2.5
	Sample Size	2		35	32		77	1		1	148
All Fish	Avg. Length	584	542	585	560		592	560		627	583
	Std. Error	10.8	2.5	3.2	3.9		2.7	12.5			2.0
	Sample Size	5	2	67	57		139	2		1	273
Statistical Weeks 34 - 35 (August 19 - Sept. 1)											
Male	Avg. Length		530	597	564		616				594
	Std. Error		20.0	8.0	3.2		3.1				3.0
	Sample Size		2	12	54		77				145
Female	Avg. Length			585	550		601	585			583
	Std. Error			4.3	3.5		2.7				2.7
	Sample Size			16	48		84	1			149
All Fish	Avg. Length		530	590	558		608	585			588
	Std. Error		20.0	4.3	2.5		2.1				2.0
	Sample Size		2	28	102		161	1			294
Statistical Weeks 36 - 37 (Sept. 2 - 15)											
Male	Avg. Length			587	559		608	597			580
	Std. Error			6.9	2.2		3.2	11.9			2.5
	Sample Size			15	87		63	3			168
Female	Avg. Length	573	525	581	541		592				574
	Std. Error		19.0	9.0	3.4		2.6				2.8
	Sample Size	1	2	12	46		82				143
All Fish	Avg. Length	573	525	584	553		599	597			577
	Std. Error		19.0	5.5	2.0		2.1	11.9			1.9
	Sample Size	1	2	27	133		145	3			311
Combined Periods (Lengths weighted by period catches)											
Male	Avg. Length	581	506	590	548	664	598	574	604		582
	Std. Error	4.5	5.1	1.4	2.1	23.2	1.4	10.4	7.2		1.1
	Sample Size	37	61	357	212	3	488	4	4		1166
Female	Avg. Length	572	506	578	533	586	583	564		624	574
	Std. Error	2.4	9.0	1.1	2.6	4.9	1.1	19.0		18.5	0.9
	Sample Size	60	24	420	159	5	590	2		2	1262
All Fish	Avg. Length	577	507	584	542	639	590	572	604	624	578
	Std. Error	2.4	4.5	0.9	1.7	12.4	0.9	9.7	7.2	18.5	0.7
	Sample Size	97	85	777	371	8	1078	6	4	2	2428

Appendix C.1. Age composition of sockeye salmon in the District 101 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987	1986			1985		1984			1983		
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Weeks 27 - 29 (July 1 - 21)												
Male												
Sample Size			25		35	16		21				97
Percent			12.8		17.9	8.2		10.8				49.7
Std. Error			2.3		2.6	1.9		2.1				3.4
Number			248		347	159		209				963
Female												
Sample Size			11		50	14		23				98
Percent			5.6		25.6	7.2		11.8				50.3
Std. Error			1.6		3.0	1.8		2.2				3.4
Number			109		496	139		228				972
All Fish												
Sample Size			36		85	30		44				195
Percent			18.5		43.6	15.4		22.6				100.0
Std. Error			2.6		3.4	2.5		2.8				
Number			357		843	298		437				1,935
Statistical Week 30 (July 22 - 28)												
Male												
Sample Size		1	30		30	16	2	25				104
Percent		0.4	12.3		12.3	6.6	0.8	10.2				42.6
Std. Error		0.4	2.1		2.1	1.6	0.6	1.9				3.1
Number		42	1,252		1,252	668	83	1,043				4,340
Female												
Sample Size		2	27		60	20	3	26	1		1	140
Percent		0.8	11.1		24.6	8.2	1.2	10.7	0.4		0.4	57.4
Std. Error		0.6	2.0		2.7	1.7	0.7	2.0	0.4		0.4	3.1
Number		83	1,127		2,504	835	125	1,085	42		42	5,843
All Fish												
Sample Size		3	57		90	36	5	52	1		1	245
Percent		1.2	23.3		36.7	14.7	2.0	21.2	0.4		0.4	100.0
Std. Error		0.7	2.7		3.0	2.2	0.9	2.6	0.4		0.4	
Number		125	2,379		3,756	1,503	208	2,170	42		42	10,225
Statistical Week 31 (July 29 - August 4)												
Male												
Sample Size	1		54		77	17	1	47	1	1		199
Percent	0.2		12.1		17.3	3.8	0.2	10.6	0.2	0.2		44.7
Std. Error	0.2		1.5		1.7	0.9	0.2	1.4	0.2	0.2		2.3
Number	18		987		1,408	311	18	861	18	18		3,639
Female												
Sample Size			55		112	28	4	47				246
Percent			12.4		25.2	6.3	0.9	10.6				55.3
Std. Error			1.5		2.0	1.1	0.4	1.4				2.3
Number			1,006		2,048	512	73	859				4,498
All Fish												
Sample Size	1		109		189	45	5	94	1	1		445
Percent	0.2		24.5		42.5	10.1	1.1	21.1	0.2	0.2		100.0
Std. Error	0.2		2.0		2.3	1.4	0.5	1.9	0.2	0.2		
Number	18		1,993		3,456	823	91	1,720	18	18		8,137
Statistical Week 32 (August 5 - 11)												
Male												
Sample Size		1	53		72	25	1	52	1		1	206
Percent		0.2	12.4		16.8	5.8	0.2	12.1	0.2		0.2	48.1
Std. Error		0.2	1.6		1.8	1.1	0.2	1.6	0.2		0.2	2.4
Number		31	1,632		2,218	770	31	1,601	31		31	6,345
Female												
Sample Size			50		93	30		47		1	1	222
Percent			11.7		21.7	7.0		11.0		0.2	0.2	51.9
Std. Error			1.5		2.0	1.2		1.5		0.2	0.2	2.4
Number			1,539		2,865	924		1,448		31	31	6,838
All Fish												
Sample Size		1	103		166	55	1	99	1	1	2	429
Percent		0.2	24.0		38.7	12.8	0.2	23.1	0.2	0.2	0.5	100.0
Std. Error		0.2	2.0		2.3	1.6	0.2	2.0	0.2	0.2	0.3	
Number		31	3,171		5,114	1,694	31	3,049	31	31	62	13,214

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	Brood Year and Age Class											
	1987	1986			1985		1984			1983		
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Statistical Week 33 (August 12 - 18)												
Male												
Sample Size			47	1	43	27		20				138
Percent			13.9	0.3	12.7	8.0		5.9				40.7
Std. Error			1.9	0.3	1.8	1.5		1.3				2.6
Number			2,403	51	2,199	1,380		1,023				7,056
Female												
Sample Size			58		89	28		25	1			201
Percent			17.1		26.3	8.3		7.4	0.3			59.3
Std. Error			2.0		2.4	1.5		1.4	0.3			2.6
Number			2,966		4,550	1,432		1,278	51			10,277
All Fish												
Sample Size			105	1	133	55		45	1			340
Percent			30.9	0.3	39.1	16.2		13.2	0.3			100.0
Std. Error			2.5	0.3	2.6	2.0		1.8	0.3			
Number			5,369	51	6,800	2,812		2,301	51			17,384
Statistical Weeks 34 - 37 (August 19 - Sept. 15)												
Male												
Sample Size			18		10	17		17	2	1		65
Percent			9.0		5.0	8.5		8.5	1.0	0.5		32.5
Std. Error			2.0		1.5	1.9		1.9	0.7	0.5		3.3
Number			584		324	551		551	65	32		2,107
Female												
Sample Size			42	1	41	25		26				135
Percent			21.0	0.5	20.5	12.5		13.0				67.5
Std. Error			2.8	0.5	2.8	2.3		2.3				3.3
Number			1,361	32	1,329	811		843				4,376
All Fish												
Sample Size			60	1	51	43		43	2	1		201
Percent			29.9	0.5	25.4	21.4		21.4	1.0	0.5		100.0
Std. Error			3.2	0.5	3.0	2.9		2.9	0.7	0.5		
Number			1,945	32	1,653	1,394		1,394	65	32		6,515
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	1	2	227	1	267	118	4	182	4	2	1	809
Percent	<0.1	0.1	12.4	0.1	13.5	6.7	0.2	9.2	0.2	0.1	0.1	42.7
Std. Error	<0.1	0.1	0.8	0.1	0.8	0.6	0.1	0.7	0.1	0.1	0.1	1.2
Number	18	73	7,106	51	7,748	3,839	132	5,288	114	50	31	24,450
Female												
Sample Size		2	243	1	445	145	7	194	2	1	2	1,042
Percent		0.1	14.2	0.1	24.1	8.1	0.3	10.0	0.2	0.1	0.1	57.3
Std. Error		0.1	0.9	0.1	1.1	0.7	0.1	0.7	0.1	0.1	0.1	1.2
Number		83	8,108	32	13,792	4,653	198	5,741	93	31	73	32,804
All Fish												
Sample Size	1	4	470	2	714	264	11	377	6	3	3	1,855
Percent	<0.1	0.3	26.5	0.1	37.7	14.8	0.6	19.3	0.4	0.1	0.2	100.0
Std. Error	<0.1	0.1	1.1	0.1	1.2	0.9	0.2	1.0	0.2	0.1	0.1	
Number	18	156	15,214	83	21,622	8,524	330	11,071	207	81	104	57,410

Appendix C.2. Length composition of sockeye salmon in the District 101 purse seine catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class										
		1987	1986			1985		1984			1983	
		0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Weeks 27 - 29 (July 1 - 21)												
Male	Avg. Length			475		582	528		590			547
	Std. Error			7.3		9.0	7.3		4.7			6.3
	Sample Size			25		35	16		21			97
Female	Avg. Length			498		571	527		577			558
	Std. Error			12.4		3.0	11.7		5.4			4.0
	Sample Size			11		50	14		23			98
All Fish	Avg. Length			482		575	528		583			553
	Std. Error			6.5		4.1	6.6		3.7			3.7
	Sample Size			36		85	30		44			195
Statistical Week 30 (July 22 - 28)												
Male	Avg. Length			493		601	532	628	589			551
	Std. Error			11.9		9.0	20.1	12.5	9.0			9.3
	Sample Size			15		8	8	2	12			45
Female	Avg. Length			506		575	502	615	551			549
	Std. Error			9.9		5.1	8.3		33.3			9.6
	Sample Size			16		28	3	1	16			64
All Fish	Avg. Length			499		581	524	623	567			550
	Std. Error			7.6		4.7	15.1	8.3	18.8			6.7
	Sample Size			31		36	11	3	29			110
Statistical Week 31 (July 29 - August 4)												
Male	Avg. Length	420		460		591	504		587			519
	Std. Error			11.7		9.3	15.6		15.4			12.8
	Sample Size	1		13		8	4		5			31
Female	Avg. Length			479		572	491		581			529
	Std. Error			11.5		8.2	11.9		7.7			9.9
	Sample Size			10		11	5		4			30
All Fish	Avg. Length	420		468		580	497		584			524
	Std. Error			8.3		6.4	9.2		8.8			8.1
	Sample Size	1		23		19	9		9			61
Statistical Week 32 (August 5 - 11)												
Male	Avg. Length		560	489		582	511		608			549
	Std. Error			10.7		7.9	19.2		8.3			8.8
	Sample Size		1	17		16	4		11			49
Female	Avg. Length			474		562	500		569			531
	Std. Error			9.0		5.6	19.2		6.5			7.3
	Sample Size			14		22	5		7			48
All Fish	Avg. Length		560	482		571	505		593			541
	Std. Error			7.2		4.8	12.9		7.2			5.7
	Sample Size		1	31		39	9		18			98
Statistical Week 33 (August 12 - 18)												
Male	Avg. Length			492	370	576	505		600			523
	Std. Error			8.7		6.0	11.8		15.7			8.3
	Sample Size			18	1	12	13		4			48
Female	Avg. Length			496		575	498		570			534
	Std. Error			7.8		5.3	4.6		11.3			6.1
	Sample Size			20		21	11		8			60
All Fish	Avg. Length			494	370	575	502		580			529
	Std. Error			5.8		3.9	6.6		9.8			5.0
	Sample Size			38	1	33	24		12			108
Statistical Weeks 34 - 35 (August 19 - Sept. 1)												
Male	Avg. Length			544		592	504		588	545	774	561
	Std. Error			13.8		13.7	10.0		4.4	30.0		8.8
	Sample Size			7		5	11		15	2	1	41
Female	Avg. Length			517	364	564	498		568			535
	Std. Error			6.7		5.7	6.4		7.2			4.7
	Sample Size			26	1	28	22		19			96
All Fish	Avg. Length			523	364	568	500		577	545	774	543
	Std. Error			6.3		5.5	5.4		4.7	30.0		4.3
	Sample Size			33	1	33	33		34	2	1	137
Combined Periods (Lengths weighted by period catches)												
Male	Avg. Length	420	560	492	370	586	512	628	596	545	774	539
	Std. Error			4.5		4.4	5.2	12.5	3.1	30.0		3.5
	Sample Size	1	1	95	1	84	56	2	68	2	1	311
Female	Avg. Length			493	364	570	499	615	568			536
	Std. Error			3.9		2.0	4.3		7.3			2.7
	Sample Size			97	1	160	60	1	77			396
All Fish	Avg. Length	420	560	492	368	575	506	623	581	545	774	537
	Std. Error			3.0	3.0	2.0	3.4	8.3	4.2	30.0		2.2
	Sample Size	1	1	192	2	245	116	3	146	2	1	709

Appendix C.3. Age composition of sockeye salmon in the District 101 Metlakatla purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Statistical Weeks 27 - 28 (July 1 - 14)									
Male									
Sample Size		21	2	31	21	8		1	84
Percent		10.1	1.0	14.9	10.1	3.8		0.5	40.4
Std. Error		1.8	0.6	2.2	1.8	1.2		0.4	3.0
Number		81	8	120	81	31		4	325
Female									
Sample Size		32		45	37	10			124
Percent		15.4		21.6	17.8	4.8			59.6
Std. Error		2.2		2.5	2.3	1.3			3.0
Number		124		174	143	39			480
All Fish									
Sample Size		57	2	89	65	28		1	242
Percent		23.6	0.8	36.8	26.9	11.6		0.4	100.0
Std. Error		2.4	0.5	2.7	2.5	1.8		0.4	
Number		221	8	344	252	108		4	937
Statistical Week 29 (July 15 - 21)									
Male									
Sample Size		26		14	13	6			59
Percent		20.3		10.9	10.2	4.7			46.1
Std. Error		2.9		2.3	2.2	1.5			3.6
Number		72		39	36	17			164
Female									
Sample Size		15		29	16	7	1	1	69
Percent		11.7		22.7	12.5	5.5	0.8	0.8	53.9
Std. Error		2.3		3.0	2.4	1.7	0.6	0.6	3.6
Number		42		80	45	19	3	3	192
All Fish									
Sample Size		43		47	30	17	1	1	139
Percent		30.9		33.8	21.6	12.2	0.7	0.7	100.0
Std. Error		3.1		3.2	2.8	2.2	0.6	0.6	
Number		120		130	84	47	3	3	387
Statistical Week 30 (July 22 - 28)									
Male									
Sample Size		64		55	21	10			150
Percent		19.9		17.1	6.5	3.1			46.7
Std. Error		1.9		1.8	1.2	0.8			2.4
Number		241		206	79	38			564
Female									
Sample Size		66		79	19	7			171
Percent		20.6		24.6	5.9	2.2			53.3
Std. Error		1.9		2.1	1.1	0.7			2.4
Number		248		298	72	26			644
All Fish									
Sample Size		130		134	40	17			321
Percent		40.5		41.7	12.5	5.3			100.0
Std. Error		2.4		2.4	1.6	1.1			
Number		489		504	151	64			1,208
Statistical Week 31 (July 29 - August 4)									
Male									
Sample Size	1	52	1	32	18	10	1		115
Percent	0.4	21.4	0.4	13.2	7.4	4.1	0.4		47.3
Std. Error	0.3	2.2	0.3	1.8	1.4	1.1	0.3		2.7
Number	3	173	3	105	59	33	3		379
Female									
Sample Size		42		47	19	20			128
Percent		17.3		19.3	7.8	8.2			52.7
Std. Error		2.0		2.1	1.4	1.5			2.7
Number		138		155	63	66			422
All Fish									
Sample Size	1	94	1	79	37	30	1		243
Percent	0.4	38.7	0.4	32.5	15.2	12.3	0.4		100.0
Std. Error	0.3	2.6	0.3	2.5	1.9	1.8	0.3		
Number	3	311	3	260	122	99	3		801

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	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Statistical Week 32 (August 5 - 11)									
Male									
Sample Size	1	44		32	11	9			97
Percent	0.4	17.7		12.9	4.4	3.6			39.0
Std. Error	0.4	2.2		1.9	1.2	1.1			2.8
Number	6	278		203	70	57			614
Female									
Sample Size		75		53	12	12			152
Percent		30.1		21.3	4.8	4.8			61.0
Std. Error		2.7		2.4	1.2	1.2			2.8
Number		475		335	75	76			961
All Fish									
Sample Size	1	119		85	23	21			249
Percent	0.4	47.8		34.1	9.2	8.4			100.0
Std. Error	0.4	2.9		2.8	1.7	1.6			
Number	6	753		538	145	133			1,575
Statistical Week 33 (August 12 - 18)									
Male									
Sample Size		27	1	21	16	14			79
Percent		9.7	0.4	7.6	5.8	5.1			28.5
Std. Error		1.6	0.3	1.4	1.3	1.2			2.5
Number		156	6	121	92	81			456
Female									
Sample Size		79		81	17	20	1		198
Percent		28.5		29.2	6.1	7.2	0.4		71.5
Std. Error		2.5		2.5	1.3	1.4	0.3		2.5
Number		456		468	99	115	6		1,144
All Fish									
Sample Size		106	1	102	33	34	1		277
Percent		38.3	0.4	36.8	11.9	12.3	0.4		100.0
Std. Error		2.7	0.3	2.6	1.8	1.8	0.3		
Number		612	6	589	191	196	6		1,600
Statistical Weeks 34 - 38 (August 19 - Sept. 22)									
Male									
Sample Size		19	1	18	9	7	1		55
Percent		7.2	0.4	6.8	3.4	2.6	0.4		20.8
Std. Error		1.4	0.3	1.4	1.0	0.9	0.3		2.2
Number		88	5	83	42	32	4		254
Female									
Sample Size	1	104		60	25	18	1	1	210
Percent	0.4	39.2		22.6	9.4	6.8	0.4	0.4	79.2
Std. Error	0.3	2.7		2.3	1.6	1.4	0.3	0.3	2.2
Number	5	480		277	115	83	5	5	970
All Fish									
Sample Size	1	123	1	78	34	25	2	1	265
Percent	0.4	46.4	0.4	29.4	12.8	9.4	0.8	0.4	100.0
Std. Error	0.3	2.7	0.3	2.5	1.8	1.6	0.5	0.3	
Number	5	568	5	360	157	115	9	5	1,224
Combined Periods (Percentages are weighted by period catches)									
Male									
Sample Size	2	253	5	203	109	64	2	1	639
Percent	0.1	14.4	0.3	11.6	6.1	3.8	0.1	0.1	36.4
Std. Error	0.1	0.8	0.1	0.7	0.5	0.4	0.1	0.1	1.0
Number	9	1,089	22	877	459	289	7	4	2,757
Female									
Sample Size	1	413		394	145	94	3	2	1,052
Percent	0.1	25.9		23.6	8.1	5.6	0.2	0.1	63.6
Std. Error	0.1	1.0		0.9	0.6	0.5	0.1	0.1	1.0
Number	5	1,963		1,787	612	424	14	8	4,813
All Fish									
Sample Size	3	672	5	614	262	172	5	3	1,736
Percent	0.2	39.7	0.3	35.3	14.2	9.9	0.3	0.1	100.0
Std. Error	0.1	1.1	0.1	1.1	0.7	0.7	0.1	0.1	
Number	14	3,074	22	2,725	1,102	762	21	12	7,732

Appendix C.4. Length composition of sockeye salmon in the District 101 Metlakatla purse seine catch by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986	1985		1984		1983	
		1.1	1.2	1.3	2.2	2.3	3.2	3.3	Total
Statistical Weeks 27 - 38 (July 1 - Sept. 22)									
Male	Avg. Length	370	505	605	522	597	520		555
	Std. Error	10.0	5.4	3.6	5.8	4.7			4.3
	Sample Size	2	68	79	32	24	1		206
Female	Avg. Length		509	583	515	585		500	547
	Std. Error		5.0	2.2	10.0	6.9			3.2
	Sample Size		114	146	52	21		1	334
All Fish	Avg. Length	370	507	591	519	591	520	500	551
	Std. Error	10.0	3.7	2.0	6.1	4.1			2.5
	Sample Size	2	186	238	91	54	1	1	573

Appendix C.5. Age composition of sockeye salmon in the District 102 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class									
	1987	1986		1985		1984			1983	
	0.2	0.3	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Weeks 28 - 29 (July 8 - 21)										
Male										
Sample Size			34	56	38		27		1	156
Percent			10.0	16.5	11.2		8.0		0.3	46.0
Std. Error			1.6	2.0	1.7		1.4		0.3	2.6
Number			576	949	644		458		17	2,644
Female										
Sample Size	2		39	86	22	1	33			183
Percent	0.6		11.5	25.4	6.5	0.3	9.7			54.0
Std. Error	0.4		1.7	2.3	1.3	0.3	1.6			2.6
Number	34		661	1,458	373	17	559			3,102
All Fish										
Sample Size	2		73	142	60	1	60		1	339
Percent	0.6		21.5	41.9	17.7	0.3	17.7		0.3	100.0
Std. Error	0.4		2.2	2.6	2.0	0.3	2.0		0.3	
Number	34		1,237	2,407	1,017	17	1,017		17	5,746
Statistical Weeks 30 - 40 (July 22 - October 6)										
Male										
Sample Size			17	10	18		15	1	1	62
Percent			10.6	6.3	11.3		9.4	0.6	0.6	38.8
Std. Error			2.4	1.9	2.5		2.3	0.6	0.6	3.9
Number			4,832	2,842	5,117		4,263	284	284	17,622
Female										
Sample Size		1	18	39	14		26			98
Percent		0.6	11.3	24.4	8.8		16.3			61.3
Std. Error		0.6	2.5	3.4	2.2		2.9			3.9
Number		284	5,116	11,085	3,979		7,390			27,854
All Fish										
Sample Size		1	35	49	32		41	1	1	160
Percent		0.6	21.9	30.6	20.0		25.6	0.6	0.6	100.0
Std. Error		0.6	3.3	3.6	3.2		3.5	0.6	0.6	
Number		284	9,948	13,927	9,096		11,653	284	284	45,476
Combined Periods (Percentages are weighted by period catches)										
Male										
Sample Size			51	66	56		42	1	2	218
Percent			10.6	7.4	11.2		9.2	0.6	0.6	39.6
Std. Error			2.2	1.7	2.2		2.1	0.6	0.6	3.4
Number			5,408	3,791	5,761		4,721	284	301	20,266
Female										
Sample Size	2	1	57	125	36	1	59			281
Percent	0.1	0.6	11.3	24.5	8.5	<0.1	15.5			60.4
Std. Error	<0.1	0.6	2.2	3.0	2.0	<0.1	2.6			3.4
Number	34	284	5,777	12,543	4,352	17	7,949			30,956
All Fish										
Sample Size	2	1	108	191	92	1	101	1	2	499
Percent	0.1	0.6	21.8	31.9	19.7	<0.1	24.7	0.6	0.6	100.0
Std. Error	<0.1	0.6	2.9	3.3	2.8	<0.1	3.1	0.6	0.6	
Number	34	284	11,185	16,334	10,113	17	12,670	284	301	51,222

Appendix C.6. Length composition of sockeye salmon in the District 102 purse seine catch by sex and age class, 1990.

		Brood Year and Age Class				
		1986	1985		1984	
		1.2	1.3	2.2	2.3	Total
Statistical Weeks 28 - 40 (July 8 - October 6)						
Male	Avg. Length	475	579	505	584	535
	Std. Error	10.0	9.7	8.4	4.9	7.3
	Sample Size	16	19	17	13	65
Female	Avg. Length	487	572	491	562	535
	Std. Error	7.6	6.2	5.3	9.4	5.8
	Sample Size	18	25	15	21	79
All Fish	Avg. Length	481	575	498	571	535
	Std. Error	6.2	5.4	5.2	6.3	4.5
	Sample Size	34	44	32	34	144

Appendix C.7. Age composition of sockeye salmon in the District 103 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class							
	1987	1986			1985		1984	
	1.1	0.3	1.2	2.1	1.3	2.2	2.3	Total
Statistical Weeks 31 - 33 (July 29 - August 18)								
Male								
Sample Size	6	1	17		20	2	12	58
Percent	3.4	0.6	9.7		11.4	1.1	6.9	33.1
Std. Error	1.4	0.6	2.2		2.4	0.8	1.9	3.5
Number	333	56	944		1,110	111	666	3,220
Female								
Sample Size	2		57	1	28	17	12	117
Percent	1.1		32.6	0.6	16.0	9.7	6.9	66.9
Std. Error	0.8		3.5	0.6	2.8	2.2	1.9	3.5
Number	111		3,164	56	1,554	944	666	6,495
All Fish								
Sample Size	8	1	74	1	48	20	24	176
Percent	4.5	0.6	42.0	0.6	27.3	11.4	13.6	100.0
Std. Error	1.6	0.6	3.7	0.6	3.3	2.4	2.6	
Number	444	56	4,108	56	2,664	1,111	1,332	9,771
Statistical Weeks 34 - 35 (August 19 - Sept. 1)								
Male								
Sample Size			31	1	14	7	3	56
Percent			19.5	0.6	8.8	4.4	1.9	35.2
Std. Error			3.1	0.6	2.2	1.6	1.1	3.8
Number			1,868	60	843	422	181	3,374
Female								
Sample Size			74		14	9	6	103
Percent			46.5		8.8	5.7	3.8	64.8
Std. Error			3.9		2.2	1.8	1.5	3.8
Number			4,458		844	542	361	6,205
All Fish								
Sample Size			105	1	28	16	9	159
Percent			66.0	0.6	17.6	10.1	5.7	100.0
Std. Error			3.7	0.6	3.0	2.4	1.8	
Number			6,326	60	1,687	964	542	9,579
Combined Periods (Percentages are weighted by period catches)								
Male								
Sample Size	6	1	48	1	34	9	15	114
Percent	1.7	0.3	14.6	0.3	10.1	2.8	4.4	34.2
Std. Error	0.7	0.3	1.9	0.3	1.6	0.9	1.1	2.6
Number	333	56	2,812	60	1,953	533	847	6,594
Female								
Sample Size	2		131	1	42	26	18	220
Percent	0.6		39.5	0.3	12.4	7.7	5.3	65.8
Std. Error	0.4		2.6	0.3	1.8	1.4	1.2	2.6
Number	111		7,622	56	2,398	1,486	1,027	12,700
All Fish								
Sample Size	8	1	179	2	76	36	33	335
Percent	2.3	0.3	53.9	0.6	22.5	10.7	9.7	100.0
Std. Error	0.8	0.3	2.6	0.4	2.2	1.7	1.6	
Number	444	56	10,434	116	4,352	2,074	1,874	19,350

Appendix C.8. Length composition of sockeye salmon in the District 103 purse seine catch by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986			1985		1984	
		1.1	0.3	1.2	2.1	1.3	2.2	2.3	Total
Statistical Weeks 31 - 35 (July 29 - Sept. 1)									
Male	Avg. Length	354	614	492		582	455	587	521
	Std. Error	8.7		7.7		8.8	34.4	8.5	10.1
	Sample Size	6	1	23		20	4	10	64
Female	Avg. Length	366		495	388	566	503	574	515
	Std. Error	13.0		3.9		9.6	6.6	6.7	4.5
	Sample Size	2		76	1	26	20	14	139
All Fish	Avg. Length	357	614	494	388	573	497	580	517
	Std. Error	7.1		3.5		6.7	8.2	5.3	4.4
	Sample Size	8	1	99	1	46	25	24	204

Appendix C.9. Age composition of sockeye salmon in the District 104 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987		1986			1985		1984			1983	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Week 27 (July 1 - 7)												
Male												
Sample Size			3	42		99	59		40		1	244
Percent			0.5	7.0		16.5	9.8		6.7		0.2	40.7
Std. Error			0.3	1.0		1.5	1.2		1.0		0.2	2.0
Number			122	1,714		4,040	2,408		1,632		41	9,957
Female												
Sample Size			4	70		152	85		44			355
Percent			0.7	11.7		25.4	14.2		7.3			59.3
Std. Error			0.3	1.3		1.8	1.4		1.1			2.0
Number			163	2,857		6,203	3,468		1,796			14,487
All Fish												
Sample Size			7	112		252	144		84		1	600
Percent			1.2	18.7		42.0	24.0		14.0		0.2	100.0
Std. Error			0.4	1.6		2.0	1.7		1.4		0.2	
Number			285	4,571		10,284	5,876		3,428		41	24,485
Statistical Week 28 (July 8 - 14)												
Male												
Sample Size	2	3	1	66	2	128	43		36			281
Percent	0.3	0.5	0.2	10.3	0.3	19.9	6.7		5.6			43.7
Std. Error	0.2	0.3	0.2	1.2	0.2	1.6	1.0		0.9			1.9
Number	128	192	64	4,220	128	8,185	2,750		2,302			17,969
Female												
Sample Size			1	68		213	44		35	1		362
Percent			0.2	10.6		33.1	6.8		5.4	0.2		56.3
Std. Error			0.2	1.2		1.8	1.0		0.9	0.2		1.9
Number			64	4,348		13,620	2,814		2,238	64		23,148
All Fish												
Sample Size	2	3	2	134	2	341	87		71	1		643
Percent	0.3	0.5	0.3	20.8	0.3	53.0	13.5		11.0	0.2		100.0
Std. Error	0.2	0.3	0.2	1.6	0.2	2.0	1.3		1.2	0.2		
Number	128	192	128	8,569	128	21,805	5,563		4,540	64		41,117
Statistical Week 29 (July 15 - 21)												
Male												
Sample Size		4		130	1	121	21	2	32			311
Percent		0.6		18.2	0.1	16.9	2.9	0.3	4.5			43.4
Std. Error		0.3		1.4	0.1	1.4	0.6	0.2	0.8			1.8
Number		362		11,764	90	10,951	1,900	181	2,896			28,144
Female												
Sample Size			1	92		265	24		23			405
Percent			0.1	12.8		37.0	3.4		3.2			56.6
Std. Error			0.1	1.2		1.8	0.7		0.7			1.8
Number			90	8,326		23,982	2,172		2,081			36,651
All Fish												
Sample Size		4	1	222	1	386	45	2	55			716
Percent		0.6	0.1	31.0	0.1	53.9	6.3	0.3	7.7			100.0
Std. Error		0.3	0.1	1.7	0.1	1.9	0.9	0.2	1.0			
Number		362	90	20,090	90	34,933	4,072	181	4,977			64,795
Statistical Week 30 (July 22 - 28)												
Male												
Sample Size	1	1		131	2	126	18		12			291
Percent	0.1	0.1		19.0	0.3	18.3	2.6		1.7			42.2
Std. Error	0.1	0.1		1.5	0.2	1.5	0.6		0.5			1.9
Number	57	57		7,498	114	7,211	1,030		687			16,654
Female												
Sample Size				159		208	21	1	10			399
Percent				23.0		30.1	3.0	0.1	1.4			57.8
Std. Error				1.6		1.7	0.6	0.1	0.5			1.9
Number				9,100		11,904	1,202	57	572			22,835
All Fish												
Sample Size	1	1		291	2	334	39	1	22			691
Percent	0.1	0.1		42.1	0.3	48.3	5.6	0.1	3.2			100.0
Std. Error	0.1	0.1		1.9	0.2	1.9	0.9	0.1	0.7			
Number	57	57		16,655	114	19,115	2,232	57	1,259			39,546
Statistical Week 31 (July 29 - August 4)												
Male												
Sample Size		6		141		94	11		8			260
Percent		1.0		22.5		15.0	1.8		1.3			41.4
Std. Error		0.4		1.7		1.4	0.5		0.4			2.0
Number		1,583		37,212		24,808	2,903		2,111			68,617
Female												
Sample Size				151		182	20		15			368
Percent				24.0		29.0	3.2		2.4			58.6
Std. Error				1.7		1.8	0.7		0.6			2.0
Number				39,851		48,032	5,278		3,959			97,120
All Fish												
Sample Size		6		293		276	31		23			629
Percent		1.0		46.6		43.9	4.9		3.7			100.0
Std. Error		0.4		2.0		2.0	0.9		0.7			
Number		1,583		77,327		72,840	8,181		6,070			166,001

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	Brood Year and Age Class											
	1987		1986			1985		1984			1983	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Week 32 (August 5 - 11)												
Male												
Sample Size		5		417		141	31		20	1		615
Percent		0.3		28.8		9.8	2.1		1.4	0.1		42.5
Std. Error		0.2		1.2		0.8	0.4		0.3	0.1		1.3
Number		581		48,481		16,393	3,604		2,325	116		71,500
Female												
Sample Size	1	2	1	552		189	55		31			831
Percent	0.1	0.1	0.1	38.2		13.1	3.8		2.1			57.5
Std. Error	0.1	0.1	0.1	1.3		0.9	0.5		0.4			1.3
Number	116	233	116	64,176		21,973	6,394		3,604			96,612
All Fish												
Sample Size	1	7	1	969		330	86		51	1		1,446
Percent	0.1	0.5	0.1	67.0		22.8	5.9		3.5	0.1		100.0
Std. Error	0.1	0.2	0.1	1.2		1.1	0.6		0.5	0.1		
Number	116	814	116	112,657		38,366	9,998		5,929	116		168,112
Statistical Week 33 (August 12 - 18)												
Male												
Sample Size		3		351	1	96	30		13			494
Percent		0.2		28.7	0.1	7.8	2.5		1.1			40.4
Std. Error		0.1		1.3	0.1	0.8	0.4		0.3			1.4
Number		455		53,194	152	14,549	4,546		1,970			74,866
Female												
Sample Size	2			544		124	43		16			729
Percent	0.2			44.5		10.1	3.5		1.3			59.6
Std. Error	0.1			1.4		0.9	0.5		0.3			1.4
Number	303			82,443		18,792	6,517		2,425			110,480
All Fish												
Sample Size	2	3		897	1	220	74		29			1,226
Percent	0.2	0.2		73.2	0.1	17.9	6.0		2.4			100.0
Std. Error	0.1	0.1		1.3	0.1	1.1	0.7		0.4			
Number	303	455		135,940	152	33,341	11,214		4,395			185,800
Statistical Week 34 (August 19 - 25)												
Male												
Sample Size		2		210		32	30		7			281
Percent		0.3		33.5		5.1	4.8		1.1			44.8
Std. Error		0.2		1.9		0.9	0.9		0.4			2.0
Number		295		31,005		4,725	4,429		1,034			41,488
Female												
Sample Size		1		278		42	19	1	5			346
Percent		0.2		44.3		6.7	3.0	0.2	0.8			55.2
Std. Error		0.2		2.0		1.0	0.7	0.2	0.4			2.0
Number		148		41,045		6,201	2,805	148	738			51,085
All Fish												
Sample Size		3		489		74	49	1	12			628
Percent		0.5		77.9		11.8	7.8	0.2	1.9			100.0
Std. Error		0.3		1.7		1.3	1.1	0.2	0.5			
Number		443		72,198		10,926	7,234	148	1,772			92,721
Statistical Week 35 (August 26 - Sept. 1)												
Male												
Sample Size		7		197		27	23	1	12			267
Percent		1.1		30.5		4.2	3.6	0.2	1.9			41.4
Std. Error		0.4		1.8		0.8	0.7	0.2	0.5			1.9
Number		154		4,339		594	507	22	264			5,880
Female												
Sample Size		2		310	1	37	21		7			378
Percent		0.3		48.1	0.2	5.7	3.3		1.1			58.6
Std. Error		0.2		1.9	0.2	0.9	0.7		0.4			1.9
Number		44		6,828	22	815	462		154			8,325
All Fish												
Sample Size		9		507	1	64	44	1	19			645
Percent		1.4		78.6	0.2	9.9	6.8	0.2	2.9			100.0
Std. Error		0.5		1.6	0.2	1.2	1.0	0.2	0.7			
Number		198		11,167	22	1,409	969	22	418			14,205
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	3	31	4	1,685	6	864	266	3	180	1	1	3,044
Percent	<0.1	0.5	<0.1	25.1	0.1	11.5	3.0	<0.1	1.9	<0.1	<0.1	42.1
Std. Error	<0.1	0.1	<0.1	0.6	<0.1	0.4	0.2	<0.1	0.2	<0.1	<0.1	0.7
Number	185	3,679	186	199,427	484	91,456	24,077	203	15,221	116	41	335,075
Female												
Sample Size	3	5	7	2,224	1	1,412	332	2	186	1		4,173
Percent	0.1	0.1	0.1	32.5	<0.1	19.0	3.9	<0.1	2.2	<0.1		57.9
Std. Error	<0.1	<0.1	<0.1	0.6	<0.1	0.5	0.2	<0.1	0.2	<0.1		0.7
Number	419	425	433	258,974	22	151,522	31,112	205	17,567	64		460,743
All Fish												
Sample Size	6	36	11	3,914	7	2,277	599	5	366	2	1	7,224
Percent	0.1	0.5	0.1	57.6	0.1	30.5	6.9	0.1	4.1	<0.1	<0.1	100.0
Std. Error	<0.1	0.1	<0.1	0.6	<0.1	0.6	0.3	<0.1	0.2	<0.1	<0.1	
Number	604	4,104	619	459,174	506	243,019	55,339	408	32,788	180	41	796,782

Appendix C.10. Length composition of sockeye salmon in the District 104 purse seine catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class											
		1987		1986			1985		1984			1983	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Week 27 (July 1 - 7)													
Male	Avg. Length			613	497		577	530		593		570	555
	Std. Error			7.7	6.7		3.2	3.9		4.3			3.0
	Sample Size			3	42		99	59		40		1	244
Female	Avg. Length			560	485		563	519		553			536
	Std. Error			17.5	5.4		2.2	3.3		4.8			2.4
	Sample Size			4	70		152	85		44			355
All Fish	Avg. Length			583	489		568	523		572		570	543
	Std. Error			14.5	4.3		1.9	2.5		3.9			1.9
	Sample Size			7	112		252	144		84		1	600
Statistical Week 28 (July 8 - 14)													
Male	Avg. Length	455	342	590	488	381	592	531		591			553
	Std. Error	25.0	7.0		5.0	4.0	2.4	5.7		5.6			3.7
	Sample Size	2	3	1	66	2	127	43		36			280
Female	Avg. Length			581	490		571	521		576	570		550
	Std. Error				4.1		1.6	4.5		3.9			2.2
	Sample Size			1	68		213	44		35	1		362
All Fish	Avg. Length	455	342	586	489	381	579	526		584	570		551
	Std. Error	25.0	7.0	4.5	3.2	4.0	1.4	3.7		3.5			2.0
	Sample Size	2	3	2	134	2	340	87		71	1		642
Statistical Week 29 (July 15 - 21)													
Male	Avg. Length		333		488	370	594	531	593	589			541
	Std. Error		1.6		3.6		2.7	6.4	1.0	7.1			3.8
	Sample Size		4		130	1	121	21	2	32			311
Female	Avg. Length			568	506		574	526		570			555
	Std. Error				3.6		1.6	5.0		5.2			2.0
	Sample Size			1	92		265	24		23			405
All Fish	Avg. Length		333	568	495	370	580	528	593	581			549
	Std. Error		1.6		2.6		1.4	4.0	1.0	4.8			2.0
	Sample Size		4	1	222	1	386	45	2	55			716
Statistical Week 30 (July 22 - 28)													
Male	Avg. Length	449	369		500	382	594	525		606			545
	Std. Error				4.3	12.5	2.8	9.9		10.0			3.8
	Sample Size	1	1		131	2	126	18		12			291
Female	Avg. Length				510		578	531	510	578			548
	Std. Error				2.6		1.6	6.0		6.7			2.1
	Sample Size				159		208	20	1	10			398
All Fish	Avg. Length	449	369		506	382	584	529	510	593			547
	Std. Error				2.4	12.5	1.5	5.6		6.8			2.0
	Sample Size	1	1		291	2	334	38	1	22			690
Statistical Week 31 (July 29 - August 4)													
Male	Avg. Length		370		512		598	551		584			544
	Std. Error		10.2		3.5		2.5	8.3		6.4			3.7
	Sample Size		6		141		94	11		8			260
Female	Avg. Length				517		579	522		570			550
	Std. Error				2.9		1.9	10.7		6.7			2.3
	Sample Size				151		182	20		15			368
All Fish	Avg. Length		370		515		585	532		575			547
	Std. Error		10.2		2.2		1.6	7.8		5.0			2.0
	Sample Size		6		293		276	31		23			629
Statistical Week 32 (August 5 - 11)													
Male	Avg. Length		382		541		595	553		584	502		555
	Std. Error		7.4		1.8		3.0	6.8		5.0			1.9
	Sample Size		5		402		139	30		20	1		597
Female	Avg. Length	495	349	580	528		580	524		581			541
	Std. Error		25.0		1.4		2.2	4.4		5.4			1.4
	Sample Size	1	2	1	542		188	54		30			818
All Fish	Avg. Length	495	373	580	534		586	535		582	502		547
	Std. Error		9.7		1.1		1.8	4.0		3.8			1.1
	Sample Size	1	7	1	944		327	84		50	1		1415

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		Brood Year and Age Class											
		1987		1986			1985		1984			1983	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Week 33 (August 12 - 18)													
Male	Avg. Length		369		541	382	590	537		580			549
	Std. Error		16.7		2.0		3.1	6.0		5.5			2.0
	Sample Size		3		348	1	93	28		13			486
Female	Avg. Length	501			522		573	521		562			531
	Std. Error	17.5			1.5		3.1	5.5		11.3			1.5
	Sample Size	2			525		120	43		14			704
All Fish	Avg. Length	501	369		529	382	580	527		570			539
	Std. Error	17.5	16.7		1.2		2.3	4.1		6.6			1.2
	Sample Size	2	3		875	1	213	72		27			1193
Statistical Week 34 (August 19 - 25)													
Male	Avg. Length		363		544		590	546		591			549
	Std. Error		14.0		2.6		6.1	5.4		10.1			2.5
	Sample Size		2		210		32	30		7			281
Female	Avg. Length		365		532		576	528	555	584			537
	Std. Error				1.8		3.5	7.1		14.2			1.8
	Sample Size		1		278		42	19	1	5			346
All Fish	Avg. Length		364		537		582	539	555	588			542
	Std. Error		8.1		1.5		3.4	4.4		8.0			1.5
	Sample Size		3		489		74	49	1	12			628
Statistical Week 35 (August 26 - Sept. 1)													
Male	Avg. Length		369		543		588	552	610	602			547
	Std. Error		5.9		3.0		5.7	6.0		5.8			3.1
	Sample Size		7		197		27	23	1	12			267
Female	Avg. Length		399		531	406	575	521		568			534
	Std. Error		11.5		1.7		4.1	6.8		16.4			1.8
	Sample Size		2		310	1	37	21		7			378
All Fish	Avg. Length		376		536	406	581	537	610	589			540
	Std. Error		6.5		1.6		3.4	5.1		7.8			1.7
	Sample Size		9		507	1	64	44	1	19			645
Combined Periods (Lengths weighted by period catches)													
Male	Avg. Length	452	367	598	525	379	593	543	596	586	502	570	549
	Std. Error	14.6	4.1	7.8	1.1	3.9	1.1	2.1	5.7	2.3			1.0
	Sample Size	3	31	4	1667	6	858	263	3	180	1	1	3017
Female	Avg. Length	498	357	576	519	406	576	524	542	572	570		542
	Std. Error	10.3	14.2	10.1	0.7		0.7	1.8	22.5	2.3			0.6
	Sample Size	3	5	7	2195	1	1407	330	2	183	1		4134
All Fish	Avg. Length	489	365	578	521	381	582	531	562	579	515	570	545
	Std. Error	13.0	4.0	9.1	0.6	5.0	0.6	1.4	18.0	1.7	34.0		0.6
	Sample Size	6	36	11	3867	7	2266	594	5	363	2	1	7158

Appendix C.11. Age composition of sockeye salmon in the District 107 purse seine catch by sex and age class, 1990.

	Brood Year and Age Class				
	1986	1985		1984	
	1.2	1.3	2.2	2.3	Total
Statistical Weeks 34 - 35 (August 19 - Sept. 1)					
Male					
Sample Size	10	8	1	2	21
Percent	20.8	16.7	2.1	4.2	43.8
Std. Error	5.8	5.3	2.0	2.9	7.1
Number	271	216	27	54	568
Female					
Sample Size	9	11	3	4	27
Percent	18.8	22.9	6.3	8.3	56.3
Std. Error	5.6	6.0	3.5	4.0	7.1
Number	244	298	81	108	731
All Fish					
Sample Size	19	19	4	6	48
Percent	39.6	39.6	8.3	12.5	100.0
Std. Error	7.0	7.0	4.0	4.7	
Number	515	514	108	162	1,299

Appendix C.12. Length composition of sockeye salmon in the District 107 purse seine catch by sex and age class, 1990.

		Brood Year and Age Class				
		1986	1985		1984	
		1.2	1.3	2.2	2.3	Total
Statistical Weeks 34 - 35 (August 19 - Sept. 1)						
Male	Avg. Length	531	625		568	563
	Std. Error	15.8	0.5			18.7
	Sample Size	4	2		1	7
Female	Avg. Length	537	579	503		559
	Std. Error	14.5	9.7			12.3
	Sample Size	2	5	1		8
All Fish	Avg. Length	533	592	503	568	561
	Std. Error	10.7	10.7			10.5
	Sample Size	6	7	1	1	15

Appendix C.13. Age composition of sockeye salmon in the District 109 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987	1986			1985			1984			1983	
	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Weeks 30 - 31 (July 22 - August 4)												
Male												
Sample Size	1		9	1		28	12	3	55		2	111
Percent	0.5		4.5	0.5		14.0	6.0	1.5	27.5		1.0	55.5
Std. Error	0.5		1.4	0.5		2.4	1.6	0.8	3.1		0.7	3.4
Number	19		171	19		530	228	57	1,044		38	2,106
Female												
Sample Size		1	8			27	12		39	2		89
Percent		0.5	4.0			13.5	6.0		19.5	1.0		44.5
Std. Error		0.5	1.4			2.4	1.6		2.7	0.7		3.4
Number		19	152			512	228		740	38		1,689
All Fish												
Sample Size	1	1	17	1		55	24	3	94	2	2	200
Percent	0.5	0.5	8.5	0.5		27.5	12.0	1.5	47.0	1.0	1.0	100.0
Std. Error	0.5	0.5	1.9	0.5		3.1	2.2	0.8	3.4	0.7	0.7	
Number	19	19	323	19		1,042	456	57	1,784	38	38	3,795
Statistical Weeks 32 - 36 (August 5 - Sept. 8)												
Male												
Sample Size			6		1	28	6		26	1		68
Percent			4.5		0.7	20.9	4.5		19.4	0.7		50.7
Std. Error			1.8		0.7	3.5	1.8		3.4	0.7		4.3
Number			311		52	1,448	311		1,346	52		3,520
Female												
Sample Size		2	7			28	13		16			66
Percent		1.5	5.2			20.9	9.7		11.9			49.3
Std. Error		1.0	1.9			3.5	2.5		2.8			4.3
Number		104	362			1,450	673		828			3,417
All Fish												
Sample Size		2	13		1	57	19		42	1		135
Percent		1.5	9.6		0.7	42.2	14.1		31.1	0.7		100.0
Std. Error		1.0	2.5		0.7	4.2	3.0		4.0	0.7		
Number		104	673		52	2,950	984		2,174	52		6,989
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	1		15	1	1	56	18	3	81	1	2	179
Percent	0.2		4.5	0.2	0.5	18.5	5.0	0.5	22.3	0.5	0.4	52.4
Std. Error	0.2		1.3	0.2	0.5	2.4	1.3	0.3	2.5	0.5	0.2	3.0
Number	19		482	19	52	1,978	539	57	2,390	52	38	5,626
Female												
Sample Size		3	15			55	25		55	2		155
Percent		1.1	4.8			18.3	8.4		14.6	0.4		47.6
Std. Error		0.7	1.3			2.4	1.7		2.0	0.2		3.0
Number		123	514			1,962	901		1,568	38		5,106
All Fish												
Sample Size	1	3	30	1	1	112	43	3	136	3	2	335
Percent	0.2	1.1	9.2	0.2	0.5	37.0	13.3	0.5	36.7	0.8	0.4	100.0
Std. Error	0.2	0.7	1.8	0.2	0.5	2.9	2.1	0.3	2.8	0.5	0.2	
Number	19	123	996	19	52	3,992	1,440	57	3,958	90	38	10,784

Appendix C.14. Length composition of sockeye salmon in the District 109 purse seine catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1987	1986		1985		1984		1983	
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks 30 - 31 (July 22 - August 4)										
Male	Avg. Length	325	462	362	564	483	591	552	573	532
	Std. Error		11.0		10.0	13.5	34.4	6.4		7.8
	Sample Size	1	8	1	16	7	3	27	1	64
Female	Avg. Length		461		523	475		536		515
	Std. Error		12.9		7.3	12.1		5.4		5.5
	Sample Size		5		16	8		22		51
All Fish	Avg. Length	325	462	362	544	478	591	545	573	524
	Std. Error		8.1		7.1	8.8	34.4	4.4		5.0
	Sample Size	1	13	1	32	15	3	49	1	115
Statistical Weeks 32 - 36 (August 5 - Sept. 8)										
Male	Avg. Length		472		574	525		591		553
	Std. Error		9.9		12.3	1.5		14.3		12.2
	Sample Size		5		7	2		8		22
Female	Avg. Length		456		569	556		565		535
	Std. Error		9.2		12.0	8.0		16.8		16.2
	Sample Size		3		3	2		3		11
All Fish	Avg. Length		466		573	540		584		547
	Std. Error		7.3		9.0	9.7		11.6		9.7
	Sample Size		8		10	4		11		33
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	325	468	362	571	510	591	577	573	545
	Std. Error		7.6		7.8	12.0	34.4	6.5		6.6
	Sample Size	1	13	1	23	9	3	35	1	86
Female	Avg. Length		458		553	527		555		528
	Std. Error		8.3		7.5	14.5		5.4		5.4
	Sample Size		8		19	10		25		62
All Fish	Avg. Length	325	464	362	563	518	591	570	573	539
	Std. Error		5.6		6.1	9.3	34.4	4.6		4.5
	Sample Size	1	21	1	42	19	3	60	1	148

Appendix C.15. Age composition of sockeye salmon in the District 110 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984	1983	
	0.2	0.3	1.2	1.3	2.2	2.3	3.3	Total
Statistical Weeks 28 - 29 (July 8 - 21)								
Male								
Sample Size			20	25	3	40	1	89
Percent			12.6	15.7	1.9	25.2	0.6	56.0
Std. Error			2.5	2.7	1.0	3.3	0.6	3.7
Number			180	224	27	359	9	799
Female								
Sample Size		2	14	22	2	30		70
Percent		1.3	8.8	13.8	1.3	18.9		44.0
Std. Error		0.8	2.1	2.6	0.8	2.9		3.7
Number		18	126	198	18	269		629
All Fish								
Sample Size		2	34	47	5	70	1	159
Percent		1.3	21.4	29.6	3.1	44.0	0.6	100.0
Std. Error		0.8	3.1	3.4	1.3	3.7	0.6	
Number		18	306	422	45	628	9	1,428
Statistical Week 30 (July 22 - 28)								
Male								
Sample Size	1	1	6	15	6	16		45
Percent	1.3	1.3	7.5	18.8	7.5	20.0		56.3
Std. Error	1.2	1.2	2.9	4.3	2.9	4.4		5.4
Number	20	20	123	306	122	326		917
Female								
Sample Size		1	6	14	3	11		35
Percent		1.3	7.5	17.5	3.8	13.8		43.8
Std. Error		1.2	2.9	4.2	2.1	3.8		5.4
Number		21	122	285	61	224		713
All Fish								
Sample Size	1	2	12	29	9	27		80
Percent	1.3	2.5	15.0	36.3	11.3	33.8		100.0
Std. Error	1.2	1.7	3.9	5.3	3.5	5.2		
Number	20	41	245	591	183	550		1,630
Statistical Weeks 31 - 32 (July 29 - August 11)								
Male								
Sample Size		2		20		10		32
Percent		2.7		27.0		13.5		43.2
Std. Error		1.8		4.9		3.8		5.5
Number		20		201		101		322
Female								
Sample Size		2		22	1	17		42
Percent		2.7		29.7	1.4	23.0		56.8
Std. Error		1.8		5.1	1.3	4.7		5.5
Number		20		221	10	171		422
All Fish								
Sample Size		4		42	1	27		74
Percent		5.4		56.8	1.4	36.5		100.0
Std. Error		2.5		5.5	1.3	5.3		
Number		40		422	10	272		744
Combined Periods (Percentages are weighted by period catches)								
Male								
Sample Size	1	3	26	60	9	66	1	166
Percent	0.5	1.1	7.9	19.2	3.9	20.7	0.2	53.6
Std. Error	0.5	0.6	1.6	2.3	1.3	2.4	0.2	2.9
Number	20	40	303	731	149	786	9	2,038
Female								
Sample Size		5	20	58	6	58		147
Percent		1.5	6.5	18.5	2.3	17.5		46.4
Std. Error		0.7	1.5	2.3	1.0	2.2		2.9
Number		59	248	704	89	664		1,764
All Fish								
Sample Size	1	8	46	118	15	124	1	313
Percent	0.5	2.6	14.5	37.8	6.3	38.1	0.2	100.0
Std. Error	0.5	0.9	2.0	2.8	1.6	2.8	0.2	
Number	20	99	551	1,435	238	1,450	9	3,802

Appendix C.16. Length composition of sockeye salmon in the District 110 purse seine catch by sex and age class, 1990.

		Brood Year and Age Class					
		1986	1985		1984	1983	
		1.2	1.3	2.2	2.3	3.3	Total
Statistical Weeks 28 - 32 (July 8 - August 11)							
Male	Avg. Length	539	598	534	601	594	585
	Std. Error	9.6	6.0	6.2	4.9		4.6
	Sample Size	13	19	3	32	1	68
Female	Avg. Length	521	582		580		571
	Std. Error	8.5	6.4		3.9		4.5
	Sample Size	7	13		25		45
All Fish	Avg. Length	533	592	534	592	594	580
	Std. Error	7.1	4.6	6.2	3.5		3.4
	Sample Size	20	32	3	57	1	113

Appendix C.17. Age composition of sockeye salmon in the District 112 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987		1986		1985			1984			1983	
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Weeks 27 - 30 (July 1 - 28)												
Male												
Sample Size			3	19		30	5	2	27			86
Percent			1.4	9.0		14.2	2.4	0.9	12.8			40.8
Std. Error			0.8	1.9		2.4	1.0	0.7	2.3			3.3
Number			74	471		744	124	50	669			2,132
Female												
Sample Size			9	24		49	5		36	2		125
Percent			4.3	11.4		23.2	2.4		17.1	0.9		59.2
Std. Error			1.4	2.1		2.9	1.0		2.5	0.7		3.3
Number			223	595		1,214	124		892	50		3,098
All Fish												
Sample Size			12	43		79	10	2	63	2		211
Percent			5.7	20.4		37.4	4.7	0.9	29.9	0.9		100.0
Std. Error			1.6	2.7		3.3	1.4	0.7	3.1	0.7		
Number			297	1,066		1,958	248	50	1,561	50		5,230
Statistical Week 31 (July 29 - August 4)												
Male												
Sample Size	3		18	26	4	39	7		24			121
Percent	1.3		7.6	10.9	1.7	16.4	2.9		10.1			50.8
Std. Error	0.7		1.7	2.0	0.8	2.3	1.1		1.9			3.1
Number	46		278	402	62	605	108		371			1,872
Female												
Sample Size			24	16		41	13	1	22			117
Percent			10.1	6.7		17.2	5.5	0.4	9.2			49.2
Std. Error			1.9	1.6		2.4	1.4	0.4	1.8			3.1
Number			371	248		635	201	15	340			1,810
All Fish												
Sample Size	3		45	46	4	86	23	1	49			257
Percent	1.2		17.5	17.9	1.6	33.5	8.9	0.4	19.1			100.0
Std. Error	0.6		2.3	2.3	0.7	2.9	1.7	0.4	2.4			
Number	46		696	712	62	1,331	356	15	758			3,976
Statistical Week 32 (August 5 - 11)												
Male												
Sample Size		1	15	28		29	3		17			93
Percent		0.4	6.6	12.4		12.8	1.3		7.5			41.2
Std. Error		0.4	1.6	2.1		2.1	0.7		1.7			3.1
Number		9	132	247		257	26		150			821
Female												
Sample Size			14	19		45	20	2	33			133
Percent			6.2	8.4		19.9	8.8	0.9	14.6			58.8
Std. Error			1.5	1.7		2.5	1.8	0.6	2.2			3.1
Number			124	168		396	177	18	291			1,174
All Fish												
Sample Size		1	29	47		74	23	2	50			226
Percent		0.4	12.8	20.8		32.7	10.2	0.9	22.1			100.0
Std. Error		0.4	2.1	2.5		2.9	1.9	0.6	2.6			
Number		9	256	415		653	203	18	441			1,995
Statistical Week 33 (August 12 - 18)												
Male												
Sample Size	2		8	15		15	25		30		1	96
Percent	0.8		3.3	6.3		6.3	10.5		12.6		0.4	40.2
Std. Error	0.6		1.1	1.5		1.5	1.9		2.1		0.4	3.1
Number	37		147	276		276	460		551		18	1,765
Female												
Sample Size	1		13	17		31	45		35	1		143
Percent	0.4		5.4	7.1		13.0	18.8		14.6	0.4		59.8
Std. Error	0.4		1.4	1.6		2.1	2.5		2.2	0.4		3.1
Number	18		239	312		570	827		644	18		2,628
All Fish												
Sample Size	3		21	32		46	70		65	1	1	239
Percent	1.3		8.8	13.4		19.2	29.3		27.2	0.4	0.4	100.0
Std. Error	0.7		1.8	2.1		2.5	2.9		2.8	0.4	0.4	
Number	55		386	588		846	1,287		1,195	18	18	4,393

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	Brood Year and Age Class											
	1987		1986		1985			1984			1983	
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Weeks 34 - 35 (August 19 - Sept. 1)												
Male												
Sample Size		1	1	15		9	48		28			102
Percent		0.4	0.4	6.1		3.7	19.6		11.4			41.6
Std. Error		0.4	0.4	1.4		1.1	2.4		1.9			2.9
Number		6	6	87		52	281		163			595
Female												
Sample Size			2	16		12	73		38	2		143
Percent			0.8	6.5		4.9	29.8		15.5	0.8		58.4
Std. Error			0.5	1.5		1.3	2.7		2.2	0.5		2.9
Number			12	93		70	425		222	12		834
All Fish												
Sample Size		1	6	36		27	151		91	4		316
Percent		0.3	1.9	11.4		8.5	47.8		28.8	1.3		100.0
Std. Error		0.3	0.7	1.6		1.4	2.6		2.3	0.6		
Number		6	35	210		157	881		531	23		1,843
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	5	2	45	103	4	122	88	2	126		1	498
Percent	0.5	0.1	3.8	8.9	0.4	11.5	6.0	0.3	11.4		0.1	42.9
Std. Error	0.2	0.1	0.6	0.9	0.2	1.0	0.7	0.2	1.0		0.1	1.5
Number	83	15	637	1,483	62	1,934	999	50	1,904		18	7,185
Female												
Sample Size	1		62	92		178	156	3	164	5		661
Percent	0.1		5.8	8.5		17.3	10.5	0.2	14.3	0.5		57.1
Std. Error	0.1		0.7	0.9		1.2	0.8	0.1	1.1	0.2		1.5
Number	18		969	1,416		2,885	1,754	33	2,389	80		9,544
All Fish												
Sample Size	6	2	113	204	4	312	277	5	318	7	1	1,249
Percent	0.6	0.1	9.6	17.2	0.4	28.4	17.1	0.5	25.7	0.5	0.1	100.0
Std. Error	0.2	0.1	0.9	1.2	0.2	1.4	1.0	0.2	1.3	0.2	0.1	
Number	101	15	1,670	2,991	62	4,945	2,975	83	4,486	91	18	17,437

Appendix C.18. Length composition of sockeye salmon in the District 112 purse seine catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1986	1986	1985	1985	1985	1984	1984	1984	
		0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	Total
Statistical Weeks 27 - 30 (July 1 - 28)										
Male	Avg. Length		499		567	530	634	568		549
	Std. Error		11.0		8.8	21.5		7.4		7.0
	Sample Size		10		17	3	1	10		41
Female	Avg. Length	553	495		557	463		556		540
	Std. Error	24.3	14.9		5.4	15.3		8.0		6.0
	Sample Size	3	9		25	3		11		51
All Fish	Avg. Length	553	497		561	497	634	561		544
	Std. Error	24.3	8.9		4.8	19.2		5.5		4.6
	Sample Size	3	19		42	6	1	21		92
Statistical Week 31 (July 29 - August 4)										
Male	Avg. Length	581	490	583	588	527		594		564
	Std. Error	18.1	12.9	7.5	7.1	13.0		5.4		7.9
	Sample Size	6	9	2	17	2		6		42
Female	Avg. Length	569	488		583	517		586		550
	Std. Error	7.7	11.9		7.8	19.2		11.3		7.3
	Sample Size	13	12		12	6		8		51
All Fish	Avg. Length	573	489	583	586	519		590		556
	Std. Error	7.6	8.6	7.5	5.2	14.3		6.7		5.4
	Sample Size	19	21	2	29	8		14		93
Statistical Week 32 (August 5 - 11)										
Male	Avg. Length	566	523		594	505		613		570
	Std. Error	30.4	12.9		9.0	44.0		4.3		8.2
	Sample Size	3	13		17	2		8		43
Female	Avg. Length	527	541		562	491	600	564		547
	Std. Error	6.0	6.4		5.7	17.8		13.5		5.4
	Sample Size	3	16		15	6	1	11		52
All Fish	Avg. Length	547	533		579	495	600	585		557
	Std. Error	16.5	6.9		6.1	15.6		9.7		4.9
	Sample Size	6	29		32	8	1	19		95
Statistical Week 33 (August 12 - 18)										
Male	Avg. Length	573	462		604	547		608		553
	Std. Error	7.4	12.1		9.1	14.1		9.3		10.4
	Sample Size	5	10		6	9		10		40
Female	Avg. Length	566	490		588	524		590		549
	Std. Error	11.4	8.4		10.2	6.4		9.4		6.3
	Sample Size	8	8		7	19		14		56
All Fish	Avg. Length	568	475		596	531		597		551
	Std. Error	7.4	8.2		7.0	6.4		6.9		5.7
	Sample Size	13	18		13	28		24		96
Statistical Weeks 34 - 35 (August 19 - Sept. 1)										
Male	Avg. Length	580	437		610	565		655		586
	Std. Error		26.5		19.7	6.5		9.7		11.3
	Sample Size	1	2		3	16		8		30
Female	Avg. Length	545	506		589	526		602	521	553
	Std. Error		24.0		13.9	8.2		9.9		8.0
	Sample Size	1	2		3	19		11	1	37
All Fish	Avg. Length	563	471		599	544		624	521	567
	Std. Error	17.5	24.8		11.7	6.3		9.3		7.0
	Sample Size	2	4		6	35		19	1	67
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	576	484	583	589	534	634	598		560
	Std. Error	9.0	6.9	7.5	4.5	6.5		5.7		4.0
	Sample Size	15	44	2	60	32	1	42		196
Female	Avg. Length	556	498		575	500	600	577	521	547
	Std. Error	5.8	5.9		3.6	5.2		5.1		2.9
	Sample Size	28	47		62	53	1	55	1	247
All Fish	Avg. Length	562	491	583	581	515	625	586	521	552
	Std. Error	5.0	4.6	7.5	3.0	4.4	17.0	4.0		2.4
	Sample Size	43	91	2	122	85	2	97	1	443

Appendix C.19. Age composition of sockeye salmon in the District 113 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987	1986		1985			1984			1983		
	1.1	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Total
Statistical Weeks 29 - 30 (July 15 - 28)												
Male												
Sample Size		3	1	1	146			2	14		1	168
Percent		0.7	0.2	0.2	36.4			0.5	3.5		0.2	41.9
Std. Error		0.3	0.2	0.2	1.8			0.3	0.7		0.2	1.8
Number		7	2	2	309			4	30		2	356
Female												
Sample Size		2		1	207	1		2	20			233
Percent		0.5		0.2	51.6	0.2		0.5	5.0			58.1
Std. Error		0.3		0.2	1.8	0.2		0.3	0.8			1.8
Number		4		2	440	2		4	42			494
All Fish												
Sample Size		5	1	2	354	1		4	34		1	402
Percent		1.2	0.2	0.5	88.1	0.2		1.0	8.5		0.2	100.0
Std. Error		0.4	0.2	0.3	1.2	0.2		0.4	1.0		0.2	
Number		11	2	4	751	2		8	72		2	852
Statistical Weeks 31 - 33 (July 29 - August 18)												
Male												
Sample Size	2	30		16	51			17		1		117
Percent	0.7	10.7		5.7	18.2			6.1		0.4		41.8
Std. Error	0.5	1.7		1.3	2.1			1.3		0.3		2.7
Number	11	159		85	272			91		5		623
Female												
Sample Size	1	39		19	77		2	25				163
Percent	0.4	13.9		6.8	27.5		0.7	8.9				58.2
Std. Error	0.3	1.9		1.4	2.4		0.5	1.5				2.7
Number	5	208		101	410		11	133				868
All Fish												
Sample Size	3	69		35	128		2	42		1		280
Percent	1.1	24.6		12.5	45.7		0.7	15.0		0.4		100.0
Std. Error	0.6	2.3		1.8	2.7		0.5	1.9		0.3		
Number	16	367		186	682		11	224		5		1,491
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size	2	33	1	17	197			19	14	1	1	285
Percent	0.5	7.1	0.1	3.7	24.8			4.0	1.3	0.2	0.1	41.8
Std. Error	0.3	1.1	0.1	0.8	1.5			0.8	0.2	0.2	0.1	1.8
Number	11	166	2	87	581			95	30	5	2	979
Female												
Sample Size	1	41		20	284	1	2	27	20			396
Percent	0.2	9.1		4.4	36.3	0.1	0.5	5.9	1.8			58.2
Std. Error	0.2	1.2		0.9	1.7	0.1	0.3	1.0	0.3			1.8
Number	5	212		103	850	2	11	137	42			1,362
All Fish												
Sample Size	3	74	1	37	482	1	2	46	34	1	1	682
Percent	0.7	16.1	0.1	8.1	61.1	0.1	0.5	9.9	3.1	0.2	0.1	100.0
Std. Error	0.4	1.5	0.1	1.1	1.8	0.1	0.3	1.2	0.4	0.2	0.1	
Number	16	378	2	190	1,433	2	11	232	72	5	2	2,343

Appendix C.20. Length composition of sockeye salmon in the District 113 purse seine catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1987	1986	1985		1984			1983	
		1.1	1.2	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Weeks 29 - 30 (July 15 - 28)										
Male	Avg. Length				404			397		403
	Std. Error				3.9					3.6
	Sample Size				24			2		26
Female	Avg. Length				401		522	402		404
	Std. Error				3.5			10.3		4.2
	Sample Size				42		1	3		46
All Fish	Avg. Length				402		522	400		403
	Std. Error				2.6			5.8		2.9
	Sample Size				66		1	5		72
Statistical Weeks 31 - 33 (July 29 - August 18)										
Male	Avg. Length	334	458	544	495		559		620	501
	Std. Error	10.5	7.6	11.6	5.6		12.9			6.8
	Sample Size	2	18	13	29		11		1	74
Female	Avg. Length	312	467	514	469	568	515			482
	Std. Error		5.3	10.6	4.4		8.3			4.3
	Sample Size	1	29	15	35	1	15			96
All Fish	Avg. Length	326	464	528	481	568	533		620	490
	Std. Error	9.4	4.4	8.2	3.9		8.3			3.9
	Sample Size	3	47	28	64	1	26		1	170
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	334	458	544	462		559	397	620	466
	Std. Error	10.5	7.6	11.6	7.3		12.9	<0.1		6.7
	Sample Size	2	18	13	53		11	2	1	100
Female	Avg. Length	312	467	514	444	568	518	402		454
	Std. Error		5.3	10.6	4.7		7.8	10.3		4.4
	Sample Size	1	29	15	77	1	16	3		142
All Fish	Avg. Length	326	464	528	452	568	529	400	620	459
	Std. Error	9.4	4.4	8.2	4.2		8.0	5.8		3.8
	Sample Size	3	47	28	130	1	27	5	1	242

Appendix C.21. Age composition of sockeye salmon in the District 114 purse seine catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class											
	1987		1986		1985			1984			1983	
	0.2	1.1	0.3	1.2	0.4	1.3	2.2	1.4	2.3	3.2	2.4	Total
Statistical Weeks 27 - 32 (July 1 - August 11)												
Male												
Sample Size		1	3	9	1	15	4		14	1		48
Percent		1.0	3.1	9.2	1.0	15.3	4.1		14.3	1.0		49.0
Std. Error		1.0	1.7	2.9	1.0	3.6	2.0		3.5	1.0		4.9
Number		18	55	164	18	274	73		256	18		876
Female												
Sample Size			4	12		18	2	1	13			50
Percent			4.1	12.2		18.4	2.0	1.0	13.3			51.0
Std. Error			2.0	3.2		3.8	1.4	1.0	3.3			4.9
Number			73	219		328	36	18	237			912
All Fish												
Sample Size		1	7	21	1	33	6	1	27	1		98
Percent		1.0	7.1	21.4	1.0	33.7	6.1	1.0	27.6	1.0		100.0
Std. Error		1.0	2.5	4.1	1.0	4.7	2.4	1.0	4.4	1.0		
Number		18	128	383	18	602	109	18	493	18		1,788
Statistical Weeks 33 - 37 (August 12 - Sept. 15)												
Male												
Sample Size		1	1	7		29	35		62			135
Percent		0.3	0.3	2.4		9.8	11.8		20.9			45.6
Std. Error		0.3	0.3	0.8		1.6	1.8		2.2			2.7
Number		8	8	56		230	277		492			1,071
Female												
Sample Size	1		1	4		24	77		52	1	1	161
Percent	0.3		0.3	1.4		8.1	26.0		17.6	0.3	0.3	54.4
Std. Error	0.3		0.3	0.6		1.5	2.4		2.1	0.3	0.3	2.7
Number	8		8	32		190	611		412	8	8	1,277
All Fish												
Sample Size	1	1	2	11		53	112		114	1	1	296
Percent	0.3	0.3	0.7	3.7		17.9	37.8		38.5	0.3	0.3	100.0
Std. Error	0.3	0.3	0.4	1.0		2.1	2.6		2.6	0.3	0.3	
Number	8	8	16	88		420	888		904	8	8	2,348
Combined Periods (Percentages are weighted by period catches)												
Male												
Sample Size		2	4	16	1	44	39		76	1		183
Percent		0.6	1.5	5.3	0.4	12.2	8.5		18.1	0.4		47.1
Std. Error		0.5	0.8	1.3	0.4	1.8	1.3		2.0	0.4		2.6
Number		26	63	220	18	504	350		748	18		1,947
Female												
Sample Size	1		5	16		42	79	1	65	1	1	211
Percent	0.2		2.0	6.1		12.5	15.7	0.4	15.7	0.2	0.2	52.9
Std. Error	0.2		0.9	1.4		1.9	1.5	0.4	1.9	0.2	0.2	2.6
Number	8		81	251		518	647	18	649	8	8	2,189
All Fish												
Sample Size	1	2	9	32	1	86	118	1	141	2	1	394
Percent	0.2	0.6	3.5	11.4	0.4	24.7	24.1	0.4	33.8	0.6	0.2	100.0
Std. Error	0.2	0.5	1.1	1.8	0.4	2.3	1.8	0.4	2.4	0.5	0.2	
Number	8	26	144	471	18	1,022	997	18	1,397	26	8	4,136

Appendix C.22. Length composition of sockeye salmon in the District 114 purse seine catch by sex and age class, 1990.

		Brood Year and Age Class				
		1986	1985		1984	
		1.2	1.3	2.2	2.3	Total
Statistical Weeks 27 - 37 (July 1 - Sept. 15)						
Male	Avg. Length	495	620	547	615	597
	Std. Error		6.2	16.1	5.5	7.6
	Sample Size	1	7	7	17	32
Female	Avg. Length		581	540	588	568
	Std. Error		17.7	7.4	5.7	6.3
	Sample Size		7	13	14	34
All Fish	Avg. Length	495	601	543	602	582
	Std. Error		10.5	7.2	4.6	5.2
	Sample Size	1	14	20	31	66

Appendix D.1. Age composition of sockeye salmon in the District 101-80 purse seine test catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class							
	1987	1986	1985		1984		1983	
	0.2	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 31 (July 29 - August 4)								
Male								
Sample Size		77	61	2	2	33	1	176
Percent		26.2	20.7	0.7	0.7	11.2	0.3	59.9
Std. Error		1.5	1.4	0.3	0.3	1.1	0.2	1.6
Number		114	90	3	3	49	1	261
Female								
Sample Size	1	19	68	1		27	2	118
Percent	0.3	6.5	23.1	0.3		9.2	0.7	40.1
Std. Error	0.2	0.8	1.4	0.2		1.0	0.3	1.6
Number	1	28	101	1		40	3	175
All Fish								
Sample Size	1	96	129	3	2	60	3	294
Percent	0.3	32.7	43.9	1.0	0.7	20.4	1.0	100.0
Std. Error	0.2	1.6	1.7	0.3	0.3	1.3	0.3	
Number	1	142	191	4	3	89	4	436

Appendix D.2. Length composition of sockeye salmon in the District 101-80 purse seine test catch by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986	1985		1984		1983	
		0.2	1.2	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 31 (July 29 - August 4)									
Male	Avg. Length		484	599	533	630	572	600	544
	Std. Error		5.3	5.1	97.5	25.0	10.4		5.4
	Sample Size		77	61	2	2	33	1	176
Female	Avg. Length	460	504	589	510		580	590	571
	Std. Error		12.1	3.0			7.6		4.3
	Sample Size	1	19	68	1		27	2	118
All Fish	Avg. Length	460	488	594	525	630	576	593	555
	Std. Error		4.9	2.9	56.8	25.0	6.6	3.3	3.7
	Sample Size	1	96	129	3	2	60	3	294

Appendix D.3. Age composition of sockeye salmon in the Stikine River Canadian test fishery gillnet catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class								
	1987	1986		1985			1984		
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Statistical Weeks 25 - 26 (June 17 - 30)									
Male									
Sample Size		1	7		64	3		13	88
Percent		0.5	3.6		33.0	1.5		6.7	45.4
Std. Error		0.5	1.3		3.4	0.9		1.8	3.5
Female									
Sample Size		4	1		92	1		8	106
Percent		2.1	0.5		47.4	0.5		4.1	54.6
Std. Error		1.0	0.5		3.6	0.5		1.4	3.5
All Fish									
Sample Size		5	8		156	4		21	194
Percent		2.6	4.1		80.4	2.1		10.8	100.0
Std. Error		1.1	1.4		2.8	1.0		2.2	
Statistical Weeks 27 - 28 (July 1 - 14)									
Male									
Sample Size	2	2	36		184	15		37	276
Percent	0.3	0.3	6.0		30.5	2.5		6.1	45.8
Std. Error	0.2	0.2	0.9		1.8	0.6		0.9	2.0
Female									
Sample Size		2	23	1	253	8	1	39	327
Percent		0.3	3.8	0.2	42.0	1.3	0.2	6.5	54.2
Std. Error		0.2	0.8	0.2	1.9	0.5	0.2	1.0	2.0
All Fish									
Sample Size	2	4	59	1	437	23	1	76	603
Percent	0.3	0.7	9.8	0.2	72.5	3.8	0.2	12.6	100.0
Std. Error	0.2	0.3	1.2	0.2	1.8	0.8	0.2	1.3	
Statistical Week 29 (July 15 - 21)									
Male									
Sample Size	1	1	17	1	86	2		7	115
Percent	0.4	0.4	7.1	0.4	35.8	0.8		2.9	47.9
Std. Error	0.4	0.4	1.6	0.4	3.1	0.6		1.1	3.2
Female									
Sample Size		3	8		92	1	1	20	125
Percent		1.3	3.3		38.3	0.4	0.4	8.3	52.1
Std. Error		0.7	1.1		3.1	0.4	0.4	1.8	3.2
All Fish									
Sample Size	1	4	25	1	178	3	1	27	240
Percent	0.4	1.7	10.4	0.4	74.2	1.3	0.4	11.3	100.0
Std. Error	0.4	0.8	2.0	0.4	2.8	0.7	0.4	2.0	
Statistical Weeks 30 - 31 (July 22 - August 4)									
Male									
Sample Size	2	9	37		232	12	2	21	315
Percent	0.3	1.2	4.9		30.4	1.6	0.3	2.8	41.3
Std. Error	0.2	0.4	0.7		1.6	0.4	0.2	0.6	1.7
Female									
Sample Size		14	22	1	384	2	3	21	447
Percent		1.8	2.9	0.1	50.4	0.3	0.4	2.8	58.7
Std. Error		0.5	0.6	0.1	1.7	0.2	0.2	0.6	1.7
All Fish									
Sample Size	2	23	59	1	616	14	5	42	762
Percent	0.3	3.0	7.7	0.1	80.8	1.8	0.7	5.5	100.0
Std. Error	0.2	0.6	0.9	0.1	1.4	0.5	0.3	0.8	
Combined Periods (Percentages are weighted by period catches)									
Male									
Sample Size	5	13	97	1	566	32	2	78	794
Percent	0.3	0.6	5.4	0.1	32.4	1.6	0.1	4.6	45.1
Std. Error	0.1	0.2	0.6	0.1	1.3	0.3	<0.1	0.6	1.4
Female									
Sample Size		23	54	2	821	12	5	88	1,005
Percent		1.4	2.6	0.1	44.5	0.6	0.2	5.4	54.9
Std. Error		0.3	0.4	0.1	1.3	0.2	0.1	0.6	1.4
All Fish									
Sample Size	5	36	151	3	1,387	44	7	166	1,799
Percent	0.3	2.0	8.0	0.2	77.0	2.2	0.3	10.0	100.0
Std. Error	0.1	0.4	0.7	0.1	1.1	0.4	0.1	0.8	

Appendix D.4. Length composition of sockeye salmon in the Stikine River Canadian test fishery gillnet catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class								
		1987	1986		1985			1984		
		0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	Total
Statistical Weeks 25 - 26 (June 17 - 30)										
Male	Avg. Length		645	592		654	574		650	646
	Std. Error			7.0		2.8	6.6		5.6	3.2
	Sample Size		1	7		64	3		13	88
Female	Avg. Length		608	581		623	600		620	622
	Std. Error		9.8			2.3			7.0	2.1
	Sample Size		4	1		92	1		8	106
All Fish	Avg. Length		615	591		636	581		639	633
	Std. Error		10.7	6.2		2.1	8.0		5.4	2.0
	Sample Size		5	8		156	4		21	194
Statistical Weeks 27 - 28 (July 1 - 14)										
Male	Avg. Length	495	628	590		654	590		646	640
	Std. Error	3.5	19.5	7.5		2.0	7.4		5.0	2.5
	Sample Size	2	2	36		184	15		37	276
Female	Avg. Length		631	571	656	622	573	642	627	618
	Std. Error		7.0	6.4		1.3	8.9		2.8	1.4
	Sample Size		2	23	1	253	8	1	39	327
All Fish	Avg. Length	495	629	582	656	636	584	642	637	628
	Std. Error	3.5	8.5	5.3		1.4	5.8		3.0	1.4
	Sample Size	2	4	59	1	437	23	1	76	603
Statistical Week 29 (July 15 - 21)										
Male	Avg. Length	471	685	551	693	662	583		676	644
	Std. Error			9.7		2.9	22.0		11.6	4.9
	Sample Size	1	1	17	1	86	2		7	115
Female	Avg. Length		608	549		617	555	642	609	611
	Std. Error		2.2	8.7		2.2			5.1	2.4
	Sample Size		3	8		92	1	1	20	125
All Fish	Avg. Length	471	628	550	693	639	574	642	627	627
	Std. Error		19.2	7.0		2.5	15.8		7.4	2.9
	Sample Size	1	4	25	1	178	3	1	27	240
Statistical Weeks 30 - 31 (July 22 - August 4)										
Male	Avg. Length	473	668	560		658	581	679	659	643
	Std. Error	1.5	8.9	9.9		2.1	11.5	2.5	7.4	2.9
	Sample Size	2	9	37		232	12	2	21	315
Female	Avg. Length		617	552	629	618	559	663	623	615
	Std. Error		5.3	5.0		1.1	11.0	9.7	4.7	1.2
	Sample Size		14	22	1	384	2	3	21	447
All Fish	Avg. Length	473	637	557	629	633	578	669	641	626
	Std. Error	1.5	7.0	6.5		1.3	10.1	6.5	5.2	1.5
	Sample Size	2	23	59	1	616	14	5	42	762
Combined Periods (Lengths weighted by period catches)										
Male	Avg. Length	479	656	573	693	657	582	679	658	643
	Std. Error	5.6	8.0	5.3		1.2	5.6	2.5	3.5	1.6
	Sample Size	5	13	97	1	566	32	2	78	794
Female	Avg. Length		616	563	643	620	572	649	620	616
	Std. Error		3.8	3.8	13.5	0.7	6.8	7.5	2.2	0.8
	Sample Size		23	54	2	821	12	5	88	1005
All Fish	Avg. Length	479	627	570	659	636	579	651	636	628
	Std. Error	5.6	5.2	3.7	18.6	0.8	4.5	6.8	2.4	0.9
	Sample Size	5	36	151	3	1387	44	7	166	1799

Appendix D.5. Age composition of sockeye salmon in the District 115-32 gillnet test catch by sex and age class, 1990.

	Brood Year and Age Class			
	1985		1984	
	1.3	2.2	2.3	Total
Statistical Weeks	28 - 38		(July 8 - Sept. 22)	
Male				
Sample Size	1	1	4	6
Percent	4.8	4.8	19.0	28.6
Std. Error	4.6	4.6	8.5	9.8
Number	18	18	72	108
Female				
Sample Size	8	1	6	15
Percent	38.1	4.8	28.6	71.4
Std. Error	10.6	4.6	9.8	9.8
Number	144	18	108	271
All Fish				
Sample Size	9	2	10	21
Percent	42.9	9.5	47.6	100.0
Std. Error	10.8	6.4	10.9	
Number	162	36	180	379

Appendix D.6. Length composition of sockeye salmon in the District 115-32 gillnet test catch by sex and age class, 1990.

		Brood Year and Age Class			
		1985	1985	1984	
		1.3	2.2	2.3	Total
Statistical Weeks		28 - 38	(July 8 - Sept. 22)		
Male	Avg. Length	580	530	584	574
	Std. Error			16.1	13.5
	Sample Size	1	1	4	6
Female	Avg. Length	568	540	541	555
	Std. Error	7.5		23.0	10.2
	Sample Size	8	1	6	15
All Fish	Avg. Length	569	535	558	560
	Std. Error	6.8	5.0	16.1	8.3
	Sample Size	9	2	10	21

Appendix E.1. Age composition of sockeye salmon in the District 101 Metlakatla trap catch by sex, age class, and fishing period, 1990.

	Brood Year and Age Class										
	1987		1986			1985		1984		1983	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Statistical Week 28 (July 8 - 14)											
Male											
Sample Size	1			14		34	10	1	16		76
Percent	0.6			8.0		19.4	5.7	0.6	9.1		43.4
Std. Error	0.6			2.0		2.9	1.7	0.6	2.1		3.6
Number	17			245		594	175	17	279		1,328
Female											
Sample Size				27		40	24		8		99
Percent				15.4		22.9	13.7		4.6		56.6
Std. Error				2.7		3.1	2.5		1.5		3.6
Number				472		699	419		140		1,729
All Fish											
Sample Size	1			41		74	34	1	24		175
Percent	0.6			23.4		42.3	19.4	0.6	13.7		100.0
Std. Error	0.6			3.1		3.6	2.9	0.6	2.5		
Number	17			716		1,293	594	17	419		3,057
Statistical Week 29 (July 15 - 21)											
Male											
Sample Size			1	11		16	6		7		41
Percent			0.9	9.9		14.4	5.4		6.3		36.9
Std. Error			0.9	2.8		3.3	2.1		2.3		4.5
Number			22	238		346	130		151		886
Female											
Sample Size				13		32	18		7		70
Percent				11.7		28.8	16.2		6.3		63.1
Std. Error				3.0		4.2	3.4		2.3		4.5
Number				281		691	389		151		1,512
All Fish											
Sample Size			1	24		48	24		14		111
Percent			0.9	21.6		43.2	21.6		12.6		100.0
Std. Error			0.9	3.8		4.6	3.8		3.1		
Number			22	518		1,037	518		302		2,398
Statistical Week 30 (July 22 - 28)											
Male											
Sample Size				23		19	8		9		59
Percent				19.0		15.7	6.6		7.4		48.8
Std. Error				3.4		3.1	2.1		2.2		4.3
Number				192		159	67		75		492
Female											
Sample Size				19		23	13		7		62
Percent				15.7		19.0	10.7		5.8		51.2
Std. Error				3.1		3.4	2.7		2.0		4.3
Number				159		192	109		58		518
All Fish											
Sample Size				42		42	21		16		121
Percent				34.7		34.7	17.4		13.2		100.0
Std. Error				4.1		4.1	3.2		2.9		
Number				351		351	175		134		1,010
Statistical Week 31 (July 29 - August 4)											
Male											
Sample Size				15		16	4		8		43
Percent				15.0		16.0	4.0		8.0		43.0
Std. Error				3.3		3.4	1.8		2.5		4.6
Number				117		124	31		62		334
Female											
Sample Size				19		18	4		15	1	57
Percent				19.0		18.0	4.0		15.0	1.0	57.0
Std. Error				3.7		3.6	1.8		3.3	0.9	4.6
Number				148		140	31		117	8	443
All Fish											
Sample Size				34		34	8		23	1	100
Percent				34.0		34.0	8.0		23.0	1.0	100.0
Std. Error				4.4		4.4	2.5		3.9	0.9	
Number				264		264	62		179	8	777

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Appendix E.1. (page 2 of 2)

	Brood Year and Age Class										
	1987		1986			1985		1984		1983	
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Statistical Weeks 32 - 36 (August 5 - Sept. 8)											
Male											
Sample Size		1		34		24	19	1	10		89
Percent		0.4		13.1		9.3	7.3	0.4	3.9		34.4
Std. Error		0.3		1.6		1.4	1.3	0.3	0.9		2.3
Number		2		78		55	43	2	23		203
Female											
Sample Size				82	2	44	29		13		170
Percent				31.7	0.8	17.0	11.2		5.0		65.6
Std. Error				2.3	0.4	1.8	1.5		1.1		2.3
Number				187	5	101	66		30		389
All Fish											
Sample Size		1		139	2	74	54	1	23		294
Percent		0.3		47.3	0.7	25.2	18.4	0.3	7.8		100.0
Std. Error		0.3		2.2	0.4	1.9	1.7	0.3	1.2		
Number		2		318	5	169	123	2	53		672
Combined Periods (Percentages are weighted by period catches)											
Male											
Sample Size	1	1	1	97		109	47	2	50		308
Percent	0.2	<0.1	0.3	11.1		16.3	5.7	0.3	7.5		41.4
Std. Error	0.2	<0.1	0.3	1.3		1.6	1.0	0.2	1.1		2.1
Number	17	2	22	868		1,277	446	20	591		3,243
Female											
Sample Size				160	2	157	88		50	1	458
Percent				15.9	0.1	23.3	12.9		6.3	0.1	58.6
Std. Error				1.5	<0.1	1.8	1.5		1.0	0.1	2.1
Number				1,246	5	1,822	1,014		496	8	4,591
All Fish											
Sample Size	1	1	1	280	2	272	141	2	100	1	801
Percent	0.2	<0.1	0.3	27.4	0.1	39.3	18.6	0.2	13.7	0.1	100.0
Std. Error	0.2	<0.1	0.3	1.8	<0.1	2.1	1.7	0.2	1.5	0.1	
Number	17	2	22	2,167	5	3,114	1,473	20	1,087	8	7,914

Appendix E.2. Length composition of sockeye salmon in the District 101 Metlakatla trap catch by sex, age class, and fishing period, 1990.

		Brood Year and Age Class						
		1987	1986		1985		1984	
		0.2	1.2	2.1	1.3	2.2	2.3	Total
Statistical Weeks 28 - 29 (July 8 - 21)								
Male	Avg. Length	480	540		605	523	614	584
	Std. Error		24.7		7.1	31.8	7.3	9.2
	Sample Size	1	5		13	3	8	30
Female	Avg. Length		511		585	536	593	551
	Std. Error		9.2		7.8	10.1	14.5	6.7
	Sample Size		14		19	13	3	49
All Fish	Avg. Length	480	518		593	534	608	564
	Std. Error		9.5		5.6	9.7	6.9	5.7
	Sample Size	1	19		32	16	11	79
Statistical Weeks 30 - 36 (July 22 - Sept. 8)								
Male	Avg. Length		486		598	509	606	544
	Std. Error		6.5		6.6	7.9	9.2	7.0
	Sample Size		29		26	14	12	81
Female	Avg. Length		505	390	588	522	575	540
	Std. Error		4.6	10.0	4.3	7.2	10.4	5.0
	Sample Size		44	2	35	15	14	110
All Fish	Avg. Length		497	390	592	516	589	542
	Std. Error		3.9	10.0	3.8	5.4	7.5	4.1
	Sample Size		73	2	61	29	26	191
Combined Periods (Lengths weighted by period catches)								
Male	Avg. Length	480	523		602	519	611	571
	Std. Error		7.2		5.0	8.1	6.2	5.9
	Sample Size	1	34		39	17	20	111
Female	Avg. Length		509	390	586	532	588	548
	Std. Error		4.1	10.0	3.9	6.1	8.9	4.0
	Sample Size		58	2	54	28	17	159
All Fish	Avg. Length	480	512	390	593	528	602	557
	Std. Error		3.7	10.0	3.1	5.0	5.8	3.4
	Sample Size	1	92	2	93	45	37	270

Appendix F.1. Age composition of sockeye salmon in the Hugh Smith Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Escapement Dates: (June 10 - July 7)									
Sample Dates: (June 10 - July 7)									
Male									
Sample Size		2		39					41
Percent		1.7		33.9					35.7
Std. Error		0.3		1.3					1.3
Number		2		43					45
Female									
Sample Size				74					74
Percent				64.3					64.3
Std. Error				1.3					1.3
Number				80					80
All Fish									
Sample Size		2		113					115
Percent		1.7		98.3					100.0
Std. Error		0.3		0.3					
Number		2		123					125
Escapement Dates: (July 8 - 21)									
Sample Dates: (July 8 - 21)									
Male									
Sample Size	3	1		61		2	8		75
Percent	2.0	0.7		40.1		1.3	5.3		49.3
Std. Error	0.3	0.1		0.9		0.2	0.4		0.9
Number	3	1		64		2	9		79
Female									
Sample Size				68		3	6		77
Percent				44.7		2.0	3.9		50.7
Std. Error				0.9		0.3	0.4		0.9
Number				72		3	6		81
All Fish									
Sample Size	3	1		129		5	14		152
Percent	2.0	0.7		84.9		3.3	9.2		100.0
Std. Error	0.3	0.1		0.7		0.3	0.5		
Number	3	1		136		5	15		160
Escapement Dates: (July 22 - August 25)									
Sample Dates: (July 22 - August 25)									
Male									
Sample Size		13		36	9	6	46	1	111
Percent		5.3		14.8	3.7	2.5	18.9	0.4	45.5
Std. Error		0.5		0.8	0.4	0.4	0.9	0.2	1.2
Number		15		42	10	7	53	1	128
Female									
Sample Size		3		90	2	7	31		133
Percent		1.2		36.9	0.8	2.9	12.7		54.5
Std. Error		0.3		1.1	0.2	0.4	0.8		1.2
Number		3		104	3	8	36		154
All Fish									
Sample Size		16		126	11	13	77	1	244
Percent		6.6		51.6	4.5	5.3	31.6	0.4	100.0
Std. Error		0.6		1.2	0.5	0.5	1.1	0.2	
Number		18		146	13	15	89	1	282

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Appendix F.1. (page 2 of 2)

	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Escapement Dates: (August 26 - Sept. 1)									
Sample Dates: (August 26 - Sept. 1)									
Male									
Sample Size	2	7		43	9		57		118
Percent	0.8	2.9		17.7	3.7		23.5		48.6
Std. Error	0.2	0.5		1.0	0.5		1.2		1.4
Number	2	9		53	11		69		144
Female									
Sample Size		2		69		6	48		125
Percent		0.8		28.4		2.5	19.8		51.4
Std. Error		0.2		1.2		0.4	1.1		1.4
Number		2		84		7	60		153
All Fish									
Sample Size	2	9		112	9	6	105		243
Percent	0.8	3.7		46.1	3.7	2.5	43.2		100.0
Std. Error	0.2	0.5		1.4	0.5	0.4	1.4		
Number	2	11		137	11	7	129		297
Escapement Dates: (Sept. 2 - 15)									
Sample Dates: (Sept. 2 - 15)									
Male									
Sample Size	1	5	1	17	2		26		52
Percent	0.8	4.2	0.8	14.2	1.7		21.7		43.3
Std. Error	0.6	1.4	0.6	2.4	0.9		2.9		3.4
Number	2	12	2	40	5		61		122
Female									
Sample Size		1		21	2		44		68
Percent		0.8		17.5	1.7		36.7		56.7
Std. Error		0.6		2.6	0.9		3.3		3.4
Number		2		49	5		103		159
All Fish									
Sample Size	1	6	1	38	4		70		120
Percent	0.8	5.0	0.8	31.7	3.3		58.3		100.0
Std. Error	0.6	1.5	0.6	3.2	1.2		3.4		
Number	2	14	2	89	10		164		282
Escapement Dates: (Sept. 23 - October 23)									
Sample Dates: (Sept. 23 - October 23)									
Male									
Sample Size	2	2		8	3		8		23
Percent	3.4	3.4		13.6	5.1		13.6		39.0
Std. Error	1.3	1.3		2.5	1.6		2.5		3.5
Number	5	5		19	7		20		56
Female									
Sample Size		3		11	2		20		36
Percent		5.1		18.6	3.4		33.9		61.0
Std. Error		1.6		2.8	1.3		3.4		3.5
Number		7		27	5		48		87
All Fish									
Sample Size	2	5		19	5		28		59
Percent	3.4	8.5		32.2	8.5		47.5		100.0
Std. Error	1.3	2.0		3.3	2.0		3.6		
Number	5	12		46	12		68		143
Combined Periods (Percentages are weighted by period escapements)									
Male									
Sample Size	8	30	1	204	23	8	145	1	420
Percent	0.9	3.4	0.2	20.3	2.6	0.7	16.5	0.1	44.8
Std. Error	0.2	0.4	0.1	0.7	0.3	0.1	0.8	<0.1	0.9
Number	12	44	2	261	33	9	212	1	574
Female									
Sample Size		9		333	6	16	149		513
Percent		1.1		32.3	1.0	1.4	19.6		55.2
Std. Error		0.2		0.8	0.2	0.1	0.9		0.9
Number		14		416	13	18	253		714
All Fish									
Sample Size	8	39	1	537	29	24	294	1	933
Percent	0.9	4.5	0.2	52.6	3.6	2.1	36.1	0.1	100.0
Std. Error	0.2	0.4	0.1	0.9	0.4	0.2	0.9	<0.1	
Number	12	58	2	677	46	27	465	1	1,288

Appendix F.2. Length composition of sockeye salmon in the Hugh Smith Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class								
		1987	1986		1985		1984		1983	
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Escapement Dates: (June 10 - July 7)										
Sample Dates: (June 10 - July 7)										
Male	Avg. Length		468		597					591
	Std. Error		17.5		4.4					6.1
	Sample Size		2		39					41
Female	Avg. Length				586					586
	Std. Error				2.6					2.6
	Sample Size				74					74
All Fish	Avg. Length		468		590					588
	Std. Error		17.5		2.3					2.7
	Sample Size		2		113					115
Escapement Dates: (July 8 - 21)										
Sample Dates: (July 8 - 21)										
Male	Avg. Length	333	525		595		593	597		584
	Std. Error	7.3			3.6		7.5	11.4		6.8
	Sample Size	3	1		61		2	8		75
Female	Avg. Length				583		617	572		584
	Std. Error				2.9		20.5	14.5		3.0
	Sample Size				68		3	6		77
All Fish	Avg. Length	333	525		589		607	586		584
	Std. Error	7.3			2.3		12.9	9.3		3.7
	Sample Size	3	1		129		5	14		152
Escapement Dates: (July 22 - August 25)										
Sample Dates: (July 22 - August 25)										
Male	Avg. Length		502		595	532	620	595	580	580
	Std. Error		8.9		4.0	9.7	4.8	4.1		4.1
	Sample Size		13		36	9	6	46	1	111
Female	Avg. Length		492		580	528	609	582		579
	Std. Error		21.3		2.7	32.5	5.6	3.9		2.6
	Sample Size		3		90	2	7	31		133
All Fish	Avg. Length		500		584	531	614	590	580	580
	Std. Error		8.0		2.3	9.0	4.0	3.0		2.3
	Sample Size		16		126	11	13	77	1	244
Escapement Dates: (August 26 - Sept. 1)										
Sample Dates: (August 26 - Sept. 1)										
Male	Avg. Length	343	506		607	509		603		587
	Std. Error	7.5	7.1		5.3	7.7		3.2		5.0
	Sample Size	2	7		43	9		57		118
Female	Avg. Length		525		587		605	587		587
	Std. Error		10.0		2.7		6.8	3.6		2.2
	Sample Size		2		69		6	48		125
All Fish	Avg. Length	343	511		595	509	605	596		587
	Std. Error	7.5	6.3		2.8	7.7	6.8	2.5		2.7
	Sample Size	2	9		112	9	6	105		243
Escapement Dates: (Sept. 2 - 15)										
Sample Dates: (Sept. 2 - 15)										
Male	Avg. Length	300	525	371	591	552		607		581
	Std. Error		11.7		6.0	4.0		3.9		8.3
	Sample Size	1	5	1	17	2		26		52
Female	Avg. Length		520		580	549		586		582
	Std. Error				3.6	19.0		3.8		3.0
	Sample Size		1		21	2		44		68
All Fish	Avg. Length	300	525	371	585	551		594		582
	Std. Error		9.6		3.4	8.0		3.0		3.9
	Sample Size	1	6	1	38	4		70		120

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		Brood Year and Age Class								
		1987	1986		1985		1984		1983	
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	3.3	Total
Escapement Dates: (Sept. 23 - October 23) Sample Dates: (Sept. 23 - October 23)										
Male	Avg. Length	374	479		602	500		596		556
	Std. Error	13.0	71.5		8.9	13.5		9.1		16.5
	Sample Size	2	2		8	3		8		23
Female	Avg. Length		483		579	520		581		569
	Std. Error		3.5		8.3	18.0		4.1		6.0
	Sample Size		3		11	2		20		36
All Fish	Avg. Length	374	481		589	508		585		564
	Std. Error	13.0	22.7		6.5	10.5		4.0		7.4
	Sample Size	2	5		19	5		28		59
Combined Periods (Lengths weighted by period escapements)										
Male	Avg. Length	329	506	371	598	528	610	601	580	582
	Std. Error	9.3	6.3		2.0	5.9	5.9	2.1		2.6
	Sample Size	8	30	1	204	23	8	145	1	420
Female	Avg. Length		510		583	536	609	583		582
	Std. Error		8.9		1.3	12.1	4.8	2.0		1.2
	Sample Size		9		333	6	16	149		513
All Fish	Avg. Length	329	507	371	588	528	609	591	580	582
	Std. Error	9.3	5.2		1.1	5.3	3.7	1.5		1.3
	Sample Size	8	39	1	537	29	24	294	1	933

Appendix F.3. Daily sockeye salmon counts and associated statistics from Hugh Smith Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June	9	0	0	0.0000	0.0000
June	10	0	0	0.0000	0.0000
June	11	0	0	0.0000	0.0000
June	12	0	0	0.0000	0.0000
June	13	1	1	0.0008	0.0008
June	14	0	1	0.0000	0.0008
June	15	0	1	0.0000	0.0008
June	16	0	1	0.0000	0.0008
June	17	0	1	0.0000	0.0008
June	18	0	1	0.0000	0.0008
June	19	0	1	0.0000	0.0008
June	20	1	2	0.0008	0.0016
June	21	3	5	0.0023	0.0039
June	22	2	7	0.0016	0.0054
June	23	0	7	0.0000	0.0054
June	24	0	7	0.0000	0.0054
June	25	0	7	0.0000	0.0054
June	26	0	7	0.0000	0.0054
June	27	0	7	0.0000	0.0054
June	28	0	7	0.0000	0.0054
June	29	3	10	0.0023	0.0078
June	30	4	14	0.0031	0.0109
July	1	51	65	0.0396	0.0505
July	2	23	88	0.0179	0.0683
July	3	8	96	0.0062	0.0745
July	4	22	118	0.0171	0.0916
July	5	4	122	0.0031	0.0947
July	6	3	125	0.0023	0.0970
July	7	0	125	0.0000	0.0970
July	8	8	133	0.0062	0.1033
July	9	28	161	0.0217	0.1250
July	10	15	176	0.0116	0.1366
July	11	36	212	0.0280	0.1646
July	12	5	217	0.0039	0.1685
July	13	8	225	0.0062	0.1747
July	14	14	239	0.0109	0.1856
July	15	2	241	0.0016	0.1871
July	16	3	244	0.0023	0.1894
July	17	7	251	0.0054	0.1949
July	18	11	262	0.0085	0.2034
July	19	3	265	0.0023	0.2057
July	20	13	278	0.0101	0.2158
July	21	7	285	0.0054	0.2213
July	22	7	292	0.0054	0.2267
July	23	33	325	0.0256	0.2523
July	24	5	330	0.0039	0.2562
July	25	67	397	0.0520	0.3082
July	26	14	411	0.0109	0.3191
July	27	3	414	0.0023	0.3214
July	28	0	414	0.0000	0.3214
July	29	0	414	0.0000	0.3214
July	30	11	425	0.0085	0.3300
July	31	3	428	0.0023	0.3323
Aug.	1	5	433	0.0039	0.3362
Aug.	2	0	433	0.0000	0.3362
Aug.	3	3	436	0.0023	0.3385
Aug.	4	0	436	0.0000	0.3385
Aug.	5	3	439	0.0023	0.3408
Aug.	6	5	444	0.0039	0.3447
Aug.	7	31	475	0.0241	0.3688
Aug.	8	11	486	0.0085	0.3773
Aug.	9	3	489	0.0023	0.3797
Aug.	10	4	493	0.0031	0.3828
Aug.	11	2	495	0.0016	0.3843
Aug.	12	10	505	0.0078	0.3921
Aug.	13	5	510	0.0039	0.3960
Aug.	14	7	517	0.0054	0.4014

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Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Aug.	15	10	527	0.0078	0.4092
Aug.	16	8	535	0.0062	0.4154
Aug.	17	2	537	0.0016	0.4169
Aug.	18	2	539	0.0016	0.4185
Aug.	19	1	540	0.0008	0.4193
Aug.	20	1	541	0.0008	0.4200
Aug.	21	2	543	0.0016	0.4216
Aug.	22	14	557	0.0109	0.4325
Aug.	23	5	562	0.0039	0.4363
Aug.	24	5	567	0.0039	0.4402
Aug.	25	0	567	0.0000	0.4402
Aug.	26	14	581	0.0109	0.4511
Aug.	27	98	679	0.0761	0.5272
Aug.	28	73	752	0.0567	0.5839
Aug.	29	4	756	0.0031	0.5870
Aug.	30	64	820	0.0497	0.6366
Aug.	31	32	852	0.0248	0.6615
Sept.	1	12	864	0.0093	0.6708
Sept.	2	0	864	0.0000	0.6708
Sept.	3	2	866	0.0016	0.6724
Sept.	4	21	887	0.0163	0.6887
Sept.	5	34	921	0.0264	0.7151
Sept.	6	42	963	0.0326	0.7477
Sept.	7	4	967	0.0031	0.7508
Sept.	8	5	972	0.0039	0.7547
Sept.	9	42	1,014	0.0326	0.7873
Sept.	10	96	1,110	0.0745	0.8618
Sept.	11	4	1,114	0.0031	0.8649
Sept.	12	7	1,121	0.0054	0.8703
Sept.	13	0	1,121	0.0000	0.8703
Sept.	14	0	1,121	0.0000	0.8703
Sept.	15	24	1,145	0.0186	0.8890
Sept.	16	22	1,167	0.0171	0.9061
Sept.	17	1	1,168	0.0008	0.9068
Sept.	18	5	1,173	0.0039	0.9107
Sept.	19	0	1,173	0.0000	0.9107
Sept.	20	12	1,185	0.0093	0.9200
Sept.	21	14	1,199	0.0109	0.9309
Sept.	22	5	1,204	0.0039	0.9348
Sept.	23	1	1,205	0.0008	0.9356
Sept.	24	8	1,213	0.0062	0.9418
Sept.	25	2	1,215	0.0016	0.9433
Sept.	26	0	1,215	0.0000	0.9433
Sept.	27	5	1,220	0.0039	0.9472
Sept.	28	30	1,250	0.0233	0.9705
Sept.	29	0	1,250	0.0000	0.9705
Sept.	30	3	1,253	0.0023	0.9728
Oct.	1	0	1,253	0.0000	0.9728
Oct.	2	0	1,253	0.0000	0.9728
Oct.	3	1	1,254	0.0008	0.9736
Oct.	4	0	1,254	0.0000	0.9736
Oct.	5	13	1,267	0.0101	0.9837
Oct.	6	1	1,268	0.0008	0.9845
Oct.	7	1	1,269	0.0008	0.9852
Oct.	8	1	1,270	0.0008	0.9860
Oct.	9	8	1,278	0.0062	0.9922
Oct.	10	1	1,279	0.0008	0.9930
Oct.	11	1	1,280	0.0008	0.9938
Oct.	12	1	1,281	0.0008	0.9946
Oct.	13	0	1,281	0.0000	0.9946
Oct.	14	0	1,281	0.0000	0.9946
Oct.	15	0	1,281	0.0000	0.9946
Oct.	16	1	1,282	0.0008	0.9953
Oct.	17	0	1,282	0.0000	0.9953
Oct.	18	0	1,282	0.0000	0.9953
Oct.	19	4	1,286	0.0031	0.9984
Oct.	20	1	1,287	0.0008	0.9992
Oct.	21	1	1,288	0.0008	1.0000
Oct.	22	0	1,288	0.0000	1.0000
Oct.	23	0	1,288	0.0000	1.0000

Mean Day of Migration = Aug. 17 Variance = 767.8 Days squared

Appendix F.4. Age composition of sockeye salmon in the Beaver Falls escapement by sex and age class, 1990.

	Brood Year and Age Class								
	1987	1986			1985		1984	1983	
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	3.3	Total
Sample Dates: (August 21 - 27, September 7 - 25, and October 3)									
Male									
Sample Size	48	15		1	1	1	1		67
Percent	47.5	14.9		1.0	1.0	1.0	1.0		66.3
Std. Error	5.0	3.5		1.0	1.0	1.0	1.0		4.7
Female									
Sample Size	10	12	4			6	1	1	34
Percent	9.9	11.9	4.0			5.9	1.0	1.0	33.7
Std. Error	3.0	3.2	1.9			2.4	1.0	1.0	4.7
All Fish									
Sample Size	59	27	4	1	1	7	2	1	102
Percent	57.8	26.5	3.9	1.0	1.0	6.9	2.0	1.0	100.0
Std. Error	4.9	4.4	1.9	1.0	1.0	2.5	1.4	1.0	

Appendix F.5. Length composition of sockeye salmon in the Beaver Falls escapement by sex and age class, 1990.

		Brood Year and Age Class								
		1987	1986			1985		1984	1983	
		0.2	0.3	1.2	2.1	1.3	2.2	2.3	3.3	Total
Sample Dates: (August 21 - 27, September 7 - 25, and October 3)										
Male	Avg. Length	472	587		365	570	505	554		501
	Std. Error	3.9	10.2							7.5
	Sample Size	45	15		1	1	1	1		64
Female	Avg. Length	487	555	482			511	568	519	518
	Std. Error	5.3	5.2	10.7			12.3			6.4
	Sample Size	10	12	4			6	1	1	34
All Fish	Avg. Length	475	573	482	365	570	510	561	519	507
	Std. Error	3.4	6.8	10.7			10.4	7.0		5.4
	Sample Size	55	27	4	1	1	7	2	1	98

Appendix F.6. Age composition of sockeye salmon in the Bakewell Lake fish ladder escapement by sex and age class, 1990.

	Brood Year and Age Class				
	1986	1985		1984	
	1.2	1.3	2.2	2.3	Total
Sample Dates: (July 7, August 7 - September 25)					
Male					
Sample Size	16	18	4	5	43
Percent	16.8	18.9	4.2	5.3	45.3
Std. Error	3.8	4.0	2.1	2.3	5.1
Female					
Sample Size	15	28	6	3	52
Percent	15.8	29.5	6.3	3.2	54.7
Std. Error	3.7	4.7	2.5	1.8	5.1
All Fish					
Sample Size	31	46	10	8	95
Percent	32.6	48.4	10.5	8.4	100.0
Std. Error	4.8	5.1	3.2	2.9	

Appendix F.7. Length composition of sockeye salmon in the Bakewell Lake fish ladder escapement by sex and age class, 1990.

		Brood Year and Age Class				
		1986	1985		1984	
		1.2	1.3	2.2	2.3	Total
Sample Dates: (July 7, August 1 - September 25)						
Male	Avg. Length	499	600	488	605	553
	Std. Error	11.4	6.7	26.7	10.7	9.8
	Sample Size	16	18	4	5	43
Female	Avg. Length	507	576	498	597	548
	Std. Error	6.4	5.7	9.7	14.5	6.3
	Sample Size	15	28	6	3	52
All Fish	Avg. Length	503	585	494	602	550
	Std. Error	6.6	4.7	11.4	8.1	5.6
	Sample Size	31	46	10	8	95

Appendix F.8. Age composition of sockeye salmon in the McDonald Lake escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1986	1985		1984		1983	
	1.2	1.3	2.2	1.4	2.3	3.3	Total
Sample Dates: (Sept. 18, 24, and October 3)							
Male							
Sample Size	59	137	13		77	1	287
Percent	7.4	17.3	1.6		9.7	0.1	36.1
Std. Error	0.9	1.3	0.4		1.0	0.1	1.7
Number	8,684	20,165	1,913		11,333	147	42,242
Female							
Sample Size	52	284	27	1	137	6	507
Percent	6.5	35.8	3.4	0.1	17.3	0.8	63.9
Std. Error	0.9	1.7	0.6	0.1	1.3	0.3	1.7
Number	7,654	41,801	3,974	147	20,164	883	74,623
All Fish							
Sample Size	111	426	40	1	219	7	804
Percent	13.8	53.0	5.0	0.1	27.2	0.9	100.0
Std. Error	1.2	1.8	0.8	0.1	1.6	0.3	
Number	16,338	62,701	5,887	147	32,234	1,030	118,337

Appendix F.9. Length composition of sockeye salmon in the McDonald Lake escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1986	1985		1984		1983	
		1.2	1.3	2.2	1.4	2.3	3.3	Total
Sample Dates: (Sept. 18, 24, and October 3)								
Male	Avg. Length	501	602	536		602	612	578
	Std. Error	5.7	2.1	6.8		3.1		3.0
	Sample Size	59	135	13		77	1	285
Female	Avg. Length	513	587	539	587	584	575	576
	Std. Error	3.7	1.4	3.5		2.1	13.7	1.5
	Sample Size	52	284	27	1	137	6	507
All Fish	Avg. Length	507	592	538	587	590	580	577
	Std. Error	3.5	1.2	3.2		1.8	12.8	1.4
	Sample Size	111	424	40	1	219	7	802

Appendix F.10. Age composition of sockeye salmon in the Heckman Lake (Naha River) escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1987	1986	1985		1984		
	0.2	1.2	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 18 - 19)							
Male							
Sample Size	1	47	244	6		2	300
Percent	0.2	8.1	42.0	1.0		0.3	51.6
Std. Error	0.2	1.1	2.0	0.4		0.2	2.0
Female							
Sample Size		43	228	2	1	7	281
Percent		7.4	39.2	0.3	0.2	1.2	48.4
Std. Error		1.1	2.0	0.2	0.2	0.4	2.0
All Fish							
Sample Size	1	90	473	8	1	9	582
Percent	0.2	15.5	81.3	1.4	0.2	1.5	100.0
Std. Error	0.2	1.5	1.6	0.5	0.2	0.5	

Appendix F.11. Length composition of sockeye salmon in the Heckman Lake (Naha River) escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1987	1986	1985		1984		
		0.2	1.2	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 18 - 19)								
Male	Avg. Length	435	521	594	515		616	581
	Std. Error		5.7	1.6	10.2		13.5	2.3
	Sample Size	1	47	244	6		2	300
Female	Avg. Length		515	569	507	589	579	561
	Std. Error		3.7	1.6	2.0		14.2	1.9
	Sample Size		43	228	2	1	7	281
All Fish	Avg. Length	435	518	582	513	589	587	571
	Std. Error		3.4	1.3	7.6		12.3	1.6
	Sample Size	1	90	472	8	1	9	581

Appendix F.12. Age composition of sockeye salmon in the Kegan Lake escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1987	1986	1986	1985	1985	1984	
	1.1	1.2	2.1	1.3	2.2	2.3	Total
Statistical Week	39	(Sept. 23 - 29)					
Male							
Sample Size	12	174	4	74	85	22	371
Percent	2.1	30.5	0.7	13.0	14.9	3.9	65.1
Std. Error	0.6	1.9	0.3	1.4	1.5	0.8	2.0
Number	421	6,105	140	2,596	2,982	772	13,018
Female							
Sample Size		63		77	36	23	199
Percent		11.1		13.5	6.3	4.0	34.9
Std. Error		1.3		1.4	1.0	0.8	2.0
Number		2,211		2,702	1,263	807	6,982
All Fish							
Sample Size	12	237	4	151	121	45	570
Percent	2.1	41.6	0.7	26.5	21.2	7.9	100.0
Std. Error	0.6	2.0	0.3	1.8	1.7	1.1	
Number	421	8,316	140	5,298	4,246	1,579	20,000

Appendix F.13. Length composition of sockeye salmon in the Kegan Lake escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1987	1986	1986	1985	1985	1984	
		1.1	1.2	2.1	1.3	2.2	2.3	Total
Statistical Week	39	(Sept. 23 - 29)						
Male	Avg. Length	362	488	378	574	499	574	507
	Std. Error	10.8	2.7	13.3	2.4	3.2	3.0	2.9
	Sample Size	12	174	4	74	85	22	371
Female	Avg. Length		492		561	509	559	530
	Std. Error		3.6		2.6	3.8	5.2	2.9
	Sample Size		63		77	36	23	199
All Fish	Avg. Length	362	489	378	568	502	566	515
	Std. Error	10.8	2.2	13.3	1.8	2.5	3.2	2.2
	Sample Size	12	237	4	151	121	45	570

Appendix F.14. Age composition of sockeye salmon in the Karta River escapement by sex and age class, 1990.

	Brood Year and Age Class								
	1987	1986	1985	1985	1984	1984	1984	1983	
	1.1	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Weeks	35 - 36	(August 26 - Sept. 1)			Sept. 2 - 8				
Male									
Sample Size	5	34	156	10		1	2	1	209
Percent	0.8	5.8	26.4	1.7		0.2	0.3	0.2	35.4
Std. Error	0.4	0.9	1.8	0.5		0.2	0.2	0.2	1.9
Number	169	1,153	5,288	339		34	68	34	7,085
Female									
Sample Size		44	309	14	1	9	4		381
Percent		7.5	52.4	2.4	0.2	1.5	0.7		64.6
Std. Error		1.1	2.0	0.6	0.2	0.5	0.3		1.9
Number		1,492	10,475	475	34	305	136		12,915
All Fish									
Sample Size	5	78	465	24	1	10	6	1	590
Percent	0.8	13.2	78.8	4.1	0.2	1.7	1.0	0.2	100.0
Std. Error	0.4	1.4	1.7	0.8	0.2	0.5	0.4	0.2	
Number	169	2,644	15,763	814	34	339	203	34	20,000

Appendix F.15. Length composition of sockeye salmon in the Karta River escapement by sex and age class, 1990.

		Brood Year and Age Class								
		1987	1986	1985	1985	1984	1984	1984	1983	
		1.1	1.2	1.3	2.2	1.4	2.3	3.2	3.3	Total
Statistical Weeks		35 - 36	(August 26 - Sept. 1)			Sept. 2 - 8				
Male	Avg. Length	355	514	598	532		576	500	592	574
	Std. Error	7.2	6.5	2.7	17.8			5.5		4.1
	Sample Size	5	34	154	9		1	2	1	206
Female	Avg. Length		521	568	511	600	568	530		560
	Std. Error		3.4	1.5	9.5		6.2	10.0		1.6
	Sample Size		44	309	14	1	9	4		381
All Fish	Avg. Length	355	518	578	519	600	569	520	592	565
	Std. Error	7.2	3.4	1.5	9.1		5.6	9.1		1.8
	Sample Size	5	78	463	23	1	10	6	1	587

Appendix F.16. Age composition of sockeye salmon in the Klakas Lake escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1986	1985		1984		1983	
	1.2	1.3	2.2	2.3	3.2	3.3	Total
Sample Dates: (September 25 - 27)							
Male							
Sample Size	15	37	25	55			132
Percent	3.8	9.4	6.3	14.0			33.5
Std. Error	0.8	1.2	1.0	1.5			2.0
Female							
Sample Size	37	83	53	87	1	1	262
Percent	9.4	21.1	13.5	22.1	0.3	0.3	66.5
Std. Error	1.2	1.7	1.4	1.7	0.2	0.2	2.0
All Fish							
Sample Size	52	120	78	142	1	1	394
Percent	13.2	30.5	19.8	36.0	0.3	0.3	100.0
Std. Error	1.4	1.9	1.7	2.0	0.2	0.2	

Appendix F.17. Length composition of sockeye salmon in the Klakas Lake escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1986	1985		1984		1983	
		1.2	1.3	2.2	2.3	3.2	3.3	Total
Sample Dates: (September 25 - 27)								
Male	Avg. Length	515	584	527	572			560
	Std. Error	7.3	2.9	6.6	3.3			3.1
	Sample Size	15	37	25	55			132
Female	Avg. Length	495	540	503	541	509	524	526
	Std. Error	4.1	2.7	4.6	2.1			2.0
	Sample Size	37	83	53	87	1	1	262
All Fish	Avg. Length	501	554	511	553	509	524	538
	Std. Error	3.8	2.8	4.0	2.2			1.9
	Sample Size	52	120	78	142	1	1	394

Appendix F.18. Age composition of sockeye salmon in the Hetta Lake escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1987	1986		1985		1984	
	1.1	1.2	2.1	1.3	2.2	2.3	Total
Sample Dates: (September 12 - 14)							
Male							
Sample Size	13	125	1	107	5	4	255
Percent	2.7	26.4	0.2	22.6	1.1	0.8	53.9
Std. Error	0.7	2.0	0.2	1.9	0.5	0.4	2.2
Female							
Sample Size	1	62		153	1	1	218
Percent	0.2	13.1		32.3	0.2	0.2	46.1
Std. Error	0.2	1.5		2.1	0.2	0.2	2.2
All Fish							
Sample Size	14	187	1	260	6	5	473
Percent	3.0	39.5	0.2	55.0	1.3	1.1	100.0
Std. Error	0.8	2.2	0.2	2.2	0.5	0.5	

Appendix F.19. Length composition of sockeye salmon in the Hetta Lake escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1987	1986		1985		1984	
		1.1	1.2	2.1	1.3	2.2	2.3	Total
Sample Dates: (September 12 - 14)								
Male	Avg. Length	336	494	347	558	524	561	514
	Std. Error	16.5	3.1		1.7	5.8	9.3	3.8
	Sample Size	13	125	1	107	5	4	255
Female	Avg. Length	319	495		536	488	512	523
	Std. Error		3.9		1.3			2.1
	Sample Size	1	62		153	1	1	218
All Fish	Avg. Length	335	494	347	545	518	551	518
	Std. Error	15.3	2.4		1.3	7.6	12.2	2.3
	Sample Size	14	187	1	260	6	5	473

Appendix F.20. Age composition of sockeye salmon in the Klawock Lake escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984		
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 14, 20, 24, and October 1, 12)								
Male								
Sample Size	99	8	1	4	7		4	123
Percent	55.3	4.5	0.6	2.2	3.9		2.2	68.7
Std. Error	3.7	1.5	0.6	1.1	1.4		1.1	3.4
Female								
Sample Size		20		13	18	1	4	56
Percent		11.2		7.3	10.1	0.6	2.2	31.3
Std. Error		2.3		1.9	2.2	0.6	1.1	3.4
All Fish								
Sample Size	100	28	1	17	25	1	8	180
Percent	55.6	15.6	0.6	9.4	13.9	0.6	4.4	100.0
Std. Error	3.7	2.7	0.6	2.2	2.6	0.6	1.5	

Appendix F.21. Length composition of sockeye salmon in the Klawock Lake escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986		1985		1984		
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 14, 20, 24, and October 1, 12)									
Male	Avg. Length	361	481	440	553	509		569	391
	Std. Error	2.2	9.2		13.8	21.5		4.8	6.1
	Sample Size	99	8	1	4	7		4	123
Female	Avg. Length		499		539	495	580	551	512
	Std. Error		4.6		8.7	4.9		8.2	4.3
	Sample Size		20		13	18	1	4	56
All Fish	Avg. Length	361	494	440	542	499	580	560	429
	Std. Error	2.2	4.4		7.3	6.8		5.6	6.1
	Sample Size	100	28	1	17	25	1	8	180

Appendix F.22. Age composition of sockeye salmon in the Luck Lake escapement by sex and age class, 1990.

	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Sample Dates: (September 12 - 14)									
Male									
Sample Size	61	288	38	1	49	2	3		442
Percent	11.1	52.4	6.9	0.2	8.9	0.4	0.5		80.4
Std. Error	1.3	2.0	1.0	0.2	1.1	0.2	0.3		1.6
Female									
Sample Size		35		11	31	29	1	1	108
Percent		6.4		2.0	5.6	5.3	0.2	0.2	19.6
Std. Error		1.0		0.6	0.9	0.9	0.2	0.2	1.6
All Fish									
Sample Size	61	323	38	12	80	31	4	1	550
Percent	11.1	58.7	6.9	2.2	14.5	5.6	0.7	0.2	100.0
Std. Error	1.3	2.0	1.0	0.6	1.4	0.9	0.3	0.2	

Appendix F.23. Length composition of sockeye salmon in the Luck Lake escapement by sex and age class, 1990.

		Brood Year and Age Class								
		1987	1986		1985		1984		1983	
		1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Sample Dates: (September 12 - 14)										
Male	Avg. Length	364	433	349	590	447	582	452		419
	Std. Error	5.3	1.3	3.8		3.4	12.0	14.3		2.1
	Sample Size	61	288	38	1	49	2	3		442
Female	Avg. Length		478		545	499	562	510	579	515
	Std. Error		4.2		7.1	5.0	5.1			4.2
	Sample Size		35		11	31	29	1	1	108
All Fish	Avg. Length	364	438	349	549	467	563	466	579	438
	Std. Error	5.3	1.5	3.8	7.5	4.0	4.9	17.8		2.5
	Sample Size	61	323	38	12	80	31	4	1	550

Appendix F.24. Age composition of sockeye salmon in the Petersburg Lake escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984	1983	
	1.1	1.2	2.1	1.3	2.2	2.3	3.3	Total
Sample Dates: (August 27)								
Male								
Sample Size	16	92	20	7	68	23	1	227
Percent	4.1	23.7	5.2	1.8	17.5	5.9	0.3	58.5
Std. Error	1.0	2.1	1.1	0.7	1.9	1.2	0.3	2.5
Female								
Sample Size		42		26	49	44		161
Percent		10.8		6.7	12.6	11.3		41.5
Std. Error		1.5		1.2	1.7	1.6		2.5
All Fish								
Sample Size	16	134	20	33	117	67	1	388
Percent	4.1	34.5	5.2	8.5	30.2	17.3	0.3	100.0
Std. Error	1.0	2.4	1.1	1.4	2.3	1.9	0.3	

Appendix F.25. Length composition of sockeye salmon in the Petersburg Lake escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986		1985		1984	1983	
		1.1	1.2	2.1	1.3	2.2	2.3	3.3	Total
Sample Dates: (August 27)									
Male	Avg. Length	388	438	362	541	447	560	583	447
	Std. Error	6.4	2.8	7.0	27.4	4.1	5.2		3.9
	Sample Size	16	92	20	7	68	23	1	227
Female	Avg. Length		493		547	489	552		517
	Std. Error		3.1		4.7	3.5	3.7		3.0
	Sample Size		42		26	49	44		161
All Fish	Avg. Length	388	456	362	546	465	555	583	476
	Std. Error	6.4	3.1	7.0	6.6	3.4	3.0		3.1
	Sample Size	16	134	20	33	117	67	1	388

Appendix F.26. Age composition of sockeye salmon in the Thoms Lake escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984		
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	Total
Sample Dates: (September 12 - 14)								
Male								
Sample Size	13	14	81	21	142	21		292
Percent	2.3	2.5	14.6	3.8	25.6	3.8		52.7
Std. Error	0.6	0.6	1.5	0.8	1.8	0.8		2.1
Female								
Sample Size		18	2	61	147	31	3	262
Percent		3.2	0.4	11.0	26.5	5.6	0.5	47.3
Std. Error		0.7	0.2	1.3	1.8	0.9	0.3	2.1
All Fish								
Sample Size	13	32	83	82	289	52	3	554
Percent	2.3	5.8	15.0	14.8	52.2	9.4	0.5	100.0
Std. Error	0.6	1.0	1.5	1.5	2.1	1.2	0.3	

Appendix F.27. Length composition of sockeye salmon in the Thoms Lake escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986		1985		1984		
		1.1	1.2	2.1	1.3	2.2	2.3	3.2	Total
Sample Dates: (September 12 - 14)									
Male	Avg. Length	329	505	355	571	498	576		462
	Std. Error	6.3	6.5	3.0	3.6	2.3	4.9		5.0
	Sample Size	13	14	81	21	142	21		292
Female	Avg. Length		502	359	561	500	549	494	519
	Std. Error		4.0	5.0	2.6	2.0	3.3	4.9	2.3
	Sample Size		18	2	61	147	31	3	262
All Fish	Avg. Length	329	503	355	563	499	560	494	489
	Std. Error	6.3	3.6	2.9	2.2	1.5	3.3	4.9	3.1
	Sample Size	13	32	83	82	289	52	3	554

Appendix F.28. Daily sockeye salmon counts and associated statistics from Tahltan Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	6	0	0	0.0000	0.0000
July	7	0	0	0.0000	0.0000
July	8	0	0	0.0000	0.0000
July	9	0	0	0.0000	0.0000
July	10	0	0	0.0000	0.0000
July	11	0	0	0.0000	0.0000
July	12	0	0	0.0000	0.0000
July	12	0	0	0.0000	0.0000
July	14	0	0	0.0000	0.0000
July	15	1	1	0.0001	0.0001
July	16	0	1	0.0000	0.0001
July	17	0	1	0.0000	0.0001
July	18	0	1	0.0000	0.0001
July	19	0	1	0.0000	0.0001
July	20	1	2	0.0001	0.0001
July	21	27	29	0.0018	0.0019
July	22	829	858	0.0555	0.0575
July	23	3,076	3,934	0.2061	0.2635
July	24	1,723	5,657	0.1154	0.3790
July	25	1,743	7,400	0.1168	0.4957
July	26	1,673	9,073	0.1121	0.6078
July	27	792	9,865	0.0531	0.6609
July	28	1,074	10,939	0.0720	0.7328
July	29	763	11,702	0.0511	0.7839
July	30	670	12,372	0.0449	0.8288
July	31	401	12,773	0.0269	0.8557
Aug.	1	322	13,095	0.0216	0.8773
Aug.	2	286	13,381	0.0192	0.8964
Aug.	3	188	13,569	0.0126	0.9090
Aug.	4	20	13,589	0.0013	0.9104
Aug.	5	20	13,609	0.0013	0.9117
Aug.	6	80	13,689	0.0054	0.9171
Aug.	7	194	13,883	0.0130	0.9301
Aug.	8	376	14,259	0.0252	0.9552
Aug.	9	114	14,373	0.0076	0.9629
Aug.	10	14	14,387	0.0009	0.9638
Aug.	11	24	14,411	0.0016	0.9654
Aug.	12	2	14,413	0.0001	0.9656
Aug.	13	51	14,464	0.0034	0.9690
Aug.	14	34	14,498	0.0023	0.9713
Aug.	15	2	14,500	0.0001	0.9714
Aug.	16	41	14,541	0.0027	0.9741
Aug.	17	28	14,569	0.0019	0.9760
Aug.	18	7	14,576	0.0005	0.9765
Aug.	19	7	14,583	0.0005	0.9770
Aug.	20	5	14,588	0.0003	0.9773
Aug.	21	1	14,589	0.0001	0.9774
Aug.	22	0	14,589	0.0000	0.9774
Aug.	23	91	14,680	0.0061	0.9835
Aug.	24	201	14,881	0.0135	0.9969
Aug.	25	38	14,919	0.0025	0.9995
Aug.	26	1	14,920	0.0001	0.9995
Aug.	27	4	14,924	0.0003	0.9998
Aug.	28	3	14,927	0.0002	1.0000
Aug.	29	0	14,927	0.0000	1.0000
Aug.	30	0	14,927	0.0000	1.0000
Aug.	31	0	14,927	0.0000	1.0000
Sept.	1	0	14,927	0.0000	1.0000

Mean Day of Migration = July 27 Variance = 39.0 Days

Appendix F.29. Age composition of sockeye salmon in the Kutlaku Lake Creek escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984		
	1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 7 - 8)								
Male								
Sample Size	352	33	4	20	1		3	413
Percent	73.9	6.9	0.8	4.2	0.2		0.6	86.8
Std. Error	2.0	1.1	0.4	0.9	0.2		0.4	1.5
Female								
Sample Size		21		32	3	1	6	63
Percent		4.4		6.7	0.6	0.2	1.3	13.2
Std. Error		0.9		1.1	0.4	0.2	0.5	1.5
All Fish								
Sample Size	354	54	4	52	4	1	9	478
Percent	74.1	11.3	0.8	10.9	0.8	0.2	1.9	100.0
Std. Error	2.0	1.4	0.4	1.4	0.4	0.2	0.6	

Appendix F.30. Length composition of sockeye salmon in the Kutlaku Lake Creek escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986		1985		1984		
		1.1	1.2	2.1	1.3	2.2	1.4	2.3	Total
Sample Dates: (September 7 - 8)									
Male	Avg. Length	314	460	329	550	444		542	339
	Std. Error	0.9	6.4	15.4	8.6			15.5	3.4
	Sample Size	352	33	4	20	1		3	413
Female	Avg. Length		446		519	476	555	530	494
	Std. Error		6.7		4.7	20.6		8.7	5.7
	Sample Size		21		32	3	1	6	63
All Fish	Avg. Length	314	455	329	531	468	555	534	359
	Std. Error	0.9	4.8	15.4	4.8	16.6		7.5	3.8
	Sample Size	354	54	4	52	4	1	9	478

Appendix F.31. Age composition of sockeye salmon in the Alecks Lake escapement by sex and age class, 1990.

	Brood Year and Age Class									
	1987	1986			1985		1984		1983	
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Dates: (September 5 - 6)										
Male										
Sample Size	19	1	89	4	122	23	1	45	1	305
Percent	3.4	0.2	16.0	0.7	21.9	4.1	0.2	8.1	0.2	54.9
Std. Error	0.7	0.2	1.5	0.3	1.7	0.8	0.2	1.1	0.2	2.1
Female										
Sample Size	1		26		133	23	1	67		251
Percent	0.2		4.7		23.9	4.1	0.2	12.1		45.1
Std. Error	0.2		0.9		1.8	0.8	0.2	1.3		2.1
All Fish										
Sample Size	20	1	115	4	255	46	2	112	1	556
Percent	3.6	0.2	20.7	0.7	45.9	8.3	0.4	20.1	0.2	100.0
Std. Error	0.8	0.2	1.7	0.3	2.1	1.1	0.2	1.7	0.2	

Appendix F.32. Length composition of sockeye salmon in the Alecks Creek escapement by sex and age class, 1990.

		Brood Year and Age Class									
		1987	1986			1985		1984		1983	
		1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	2.4	Total
Sample Dates: (September 5 - 6)											
Male	Avg. Length	372	570	449	337	543	471	559	540	460	496
	Std. Error	8.1		3.5	4.0	2.3	6.8		4.8		3.6
	Sample Size	19	1	89	4	122	23	1	45	1	305
Female	Avg. Length	390		442		512	467	540	506		499
	Std. Error			5.8		2.5	7.5		3.2		2.4
	Sample Size	1		26		133	23	1	67		251
All Fish	Avg. Length	373	570	448	337	526	469	550	520	460	497
	Std. Error	7.7		3.0	4.0	1.9	5.0	9.5	3.1		2.3
	Sample Size	20	1	115	4	255	46	2	112	1	556

Appendix F.33. Age composition of sockeye salmon in the Windfall Creek escapement by sex and age class, 1990.

	Brood Year and Age Class					
	1987	1986	1985		1984	
	0.2	1.2	1.3	2.2	2.3	Total
Sample Dates: (August 22)						
Male						
Sample Size	1	2	40	1	1	45
Percent	0.6	1.1	23.0	0.6	0.6	25.9
Std. Error	0.6	0.8	3.2	0.6	0.6	3.3
Female						
Sample Size		1	126		2	129
Percent		0.6	72.4		1.1	74.1
Std. Error		0.6	3.4		0.8	3.3
All Fish						
Sample Size	1	3	166	1	3	174
Percent	0.6	1.7	95.4	0.6	1.7	100.0
Std. Error	0.6	1.0	1.6	0.6	1.0	

Appendix F.34. Length composition of sockeye salmon in the Windfall Creek escapement by sex and age class, 1990.

		Brood Year and Age Class					
		1987	1986	1985		1984	
		0.2	1.2	1.3	2.2	2.3	Total
Sample Dates: (August 22)							
Male	Avg. Length	445	413	593	561	586	580
	Std. Error		17.5	4.3			7.7
	Sample Size	1	2	38	1	1	43
Female	Avg. Length		462	539		563	539
	Std. Error			1.8		27.5	1.9
	Sample Size		1	125		2	128
All Fish	Avg. Length	445	429	552	561	570	549
	Std. Error		19.3	2.5		17.7	2.8
	Sample Size	1	3	163	1	3	171

Appendix F.35. Age composition of sockeye salmon in the Canyon Island (Taku River) fish wheel catch by sex, age class, and time period strata, 1990.

	Brood Year and Age Class												
	1988	1987		1986			1985			1984		1983	
	0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Weeks 23 - 25 (June 3 - 23)													
Male													
Sample Size		1		2	4			83			9		99
Percent		0.4		0.8	1.6			33.3			3.6		39.8
Std. Error		0.4		0.6	0.8			3.0			1.2		3.1
Female													
Sample Size				1	23			111	2		13		150
Percent				0.4	9.2			44.6	0.8		5.2		60.2
Std. Error				0.4	1.8			3.1	0.6		1.4		3.1
All Fish													
Sample Size		1		3	27			195	2		22		250
Percent		0.4		1.2	10.8			78.0	0.8		8.8		100.0
Std. Error		0.4		0.7	1.9			2.6	0.6		1.8		
Statistical Week 26 (June 24 - 30)													
Male													
Sample Size		5		6	49			116	9	1	4		190
Percent		1.4		1.7	14.0			33.0	2.6	0.3	1.1		54.1
Std. Error		0.6		0.7	1.8			2.5	0.8	0.3	0.6		2.6
Female													
Sample Size				2	55			92	8		4		161
Percent				0.6	15.7			26.2	2.3		1.1		45.9
Std. Error				0.4	1.9			2.3	0.8		0.6		2.6
All Fish													
Sample Size		5		8	104			208	17	1	8		351
Percent		1.4		2.3	29.6			59.3	4.8	0.3	2.3		100.0
Std. Error		0.6		0.8	2.4			2.6	1.1	0.3	0.8		
Statistical Week 27 (July 1 - 7)													
Male													
Sample Size	1	7	9	5	146			224	18	1	31		442
Percent	0.1	0.9	1.2	0.7	19.0			29.1	2.3	0.1	4.0		57.5
Std. Error	0.1	0.3	0.4	0.3	1.4			1.6	0.5	0.1	0.7		1.7
Female													
Sample Size		1		6	93			187	7	3	30		327
Percent		0.1		0.8	12.1			24.3	0.9	0.4	3.9		42.5
Std. Error		0.1		0.3	1.1			1.5	0.3	0.2	0.7		1.7
All Fish													
Sample Size	1	8	9	11	239			414	25	4	62		773
Percent	0.1	1.0	1.2	1.4	30.9			53.6	3.2	0.5	8.0		100.0
Std. Error	0.1	0.3	0.4	0.4	1.6			1.7	0.6	0.2	0.9		
Statistical Week 28 (July 8 - 14)													
Male													
Sample Size		18	11	9	106	1	1	134	22		20		322
Percent		3.1	1.9	1.6	18.3	0.2	0.2	23.2	3.8		3.5		55.7
Std. Error		0.7	0.6	0.5	1.6	0.2	0.2	1.7	0.8		0.7		2.0
Female													
Sample Size		1		6	73			146	13		17		256
Percent		0.2		1.0	12.6			25.3	2.2		2.9		44.3
Std. Error		0.2		0.4	1.3			1.8	0.6		0.7		2.0
All Fish													
Sample Size		19	11	15	180	1	1	280	35		37		579
Percent		3.3	1.9	2.6	31.1	0.2	0.2	48.4	6.0		6.4		100.0
Std. Error		0.7	0.6	0.6	1.9	0.2	0.2	2.0	1.0		1.0		
Statistical Week 29 (July 15 - 21)													
Male													
Sample Size	1	11	8	5	67	1		119	12		14		238
Percent	0.3	2.8	2.0	1.3	17.1	0.3		30.4	3.1		3.6		60.7
Std. Error	0.3	0.8	0.7	0.6	1.9	0.3		2.3	0.9		0.9		2.4
Female													
Sample Size				8	36			94	3		13		154
Percent				2.0	9.2			24.0	0.8		3.3		39.3
Std. Error				0.7	1.4			2.1	0.4		0.9		2.4
All Fish													
Sample Size	1	11	8	13	103	1		213	15		28		393
Percent	0.3	2.8	2.0	3.3	26.2	0.3		54.2	3.8		7.1		100.0
Std. Error	0.2	0.8	0.7	0.9	2.2	0.2		2.5	0.9		1.3		

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	Brood Year and Age Class												
	1988	1987		1986			1985			1984		1983	
	0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 30 (July 22 - 28)													
Male													
Sample Size	2	45	23	10	80	1		77	24	1	8		271
Percent	0.4	9.5	4.9	2.1	16.9	0.2		16.3	5.1	0.2	1.7		57.4
Std. Error	0.3	1.3	1.0	0.6	1.7	0.2		1.7	1.0	0.2	0.6		2.2
Female													
Sample Size		4		25	52			82	25	2	11		201
Percent		0.8		5.3	11.0			17.4	5.3	0.4	2.3		42.6
Std. Error		0.4		1.0	1.4			1.7	1.0	0.3	0.7		2.2
All Fish													
Sample Size	2	49	23	35	133	1		161	49	3	19		475
Percent	0.4	10.3	4.8	7.4	28.0	0.2		33.9	10.3	0.6	4.0		100.0
Std. Error	0.3	1.4	1.0	1.2	2.0	0.2		2.1	1.4	0.4	0.9		
Statistical Week 31 (July 29 - August 4)													
Male													
Sample Size	5	52	37	22	88	3		103	15		7		332
Percent	0.8	7.9	5.6	3.3	13.3	0.5		15.6	2.3		1.1		50.2
Std. Error	0.3	1.0	0.9	0.7	1.3	0.3		1.4	0.6		0.4		1.9
Female													
Sample Size		14	2	32	90		1	156	29	1	5		330
Percent		2.1	0.3	4.8	13.6		0.2	23.6	4.4	0.2	0.8		49.8
Std. Error		0.5	0.2	0.8	1.3		0.1	1.6	0.8	0.1	0.3		1.9
All Fish													
Sample Size	5	66	39	54	178	3	1	262	44	1	12		665
Percent	0.8	9.9	5.9	8.1	26.8	0.5	0.2	39.4	6.6	0.2	1.8		100.0
Std. Error	0.3	1.1	0.9	1.0	1.7	0.3	0.1	1.8	0.9	0.1	0.5		
Statistical Week 32 (August 5 - 11)													
Male													
Sample Size	5	35	16	9	43			87	20	2	11		228
Percent	1.1	7.8	3.5	2.0	9.5			19.3	4.4	0.4	2.4		50.6
Std. Error	0.5	1.2	0.9	0.6	1.4			1.8	0.9	0.3	0.7		2.3
Female													
Sample Size		2		25	50			126	12		8		223
Percent		0.4		5.5	11.1			27.9	2.7		1.8		49.4
Std. Error		0.3		1.1	1.4			2.1	0.7		0.6		2.3
All Fish													
Sample Size	5	37	16	34	93			213	32	2	19		451
Percent	1.1	8.2	3.5	7.5	20.6			47.2	7.1	0.4	4.2		100.0
Std. Error	0.5	1.3	0.9	1.2	1.9			2.3	1.2	0.3	0.9		
Statistical Week 33 (August 12 - 18)													
Male													
Sample Size	2	17	21	6	30	1		63	11		5		156
Percent	0.7	6.0	7.4	2.1	10.5	0.4		22.1	3.9		1.8		54.7
Std. Error	0.5	1.4	1.5	0.8	1.8	0.3		2.4	1.1		0.8		2.9
Female													
Sample Size		1		15	35			64	14				129
Percent		0.4		5.3	12.3			22.5	4.9				45.3
Std. Error		0.3		1.3	1.9			2.4	1.3				2.9
All Fish													
Sample Size	2	18	21	21	65	1		127	25		5		285
Percent	0.7	6.3	7.4	7.4	22.8	0.4		44.6	8.8		1.8		100.0
Std. Error	0.5	1.4	1.5	1.5	2.5	0.3		2.9	1.7		0.8		
Statistical Week 34 (August 19 - 25)													
Male													
Sample Size	1	4	21	4	17	1	1	17	7		2		75
Percent	0.7	2.7	14.3	2.7	11.6	0.7	0.7	11.6	4.8		1.4		51.0
Std. Error	0.7	1.3	2.9	1.3	2.6	0.7	0.7	2.6	1.7		1.0		4.1
Female													
Sample Size				3	16			37	16				72
Percent				2.0	10.9			25.2	10.9				49.0
Std. Error				1.2	2.6			3.6	2.6				4.1
All Fish													
Sample Size	1	4	21	7	33	1	1	54	23		2		147
Percent	0.7	2.7	14.3	4.8	22.4	0.7	0.7	36.7	15.6		1.4		100.0
Std. Error	0.7	1.3	2.9	1.7	3.4	0.7	0.7	4.0	3.0		1.0		

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	Brood Year and Age Class												
	1988	1987		1986			1985			1984		1983	
	0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Weeks	35 - 38 (August 26 - Sept. 22)												
Male													
Sample Size	1	1	12	2	8			16	2		1		43
Percent	0.8	0.8	10.0	1.7	6.7			13.3	1.7		0.8		35.8
Std. Error	0.8	0.8	2.7	1.2	2.3			3.1	1.2		0.8		4.4
Female													
Sample Size				8	18			33	17			1	77
Percent				6.7	15.0			27.5	14.2			0.8	64.2
Std. Error				2.3	3.3			4.1	3.2			0.8	4.4
All Fish													
Sample Size	1	1	12	10	26			49	19		1	1	120
Percent	0.8	0.8	10.0	8.3	21.7			40.8	15.8		0.8	0.8	100.0
Std. Error	0.8	0.8	2.7	2.5	3.8			4.5	3.3		0.8	0.8	
Combined Periods (Catches unweighted)													
Male													
Sample Size	18	196	158	80	638	8	2	1,039	140	5	112		2,396
Percent	0.4	3.9	4.6	1.8	12.6	0.2	0.1	22.5	3.1	0.1	2.3		51.6
Std. Error	0.1	0.3	0.4	0.2	0.5	0.1	0.1	0.7	0.3	<0.1	0.2		0.8
Female													
Sample Size		23	2	131	541		1	1,128	146	6	101	1	2,080
Percent		0.4	<0.1	3.1	12.1		<0.1	26.2	4.5	0.1	1.9	0.1	48.4
Std. Error		0.1	<0.1	0.3	0.6		<0.1	0.8	0.4	<0.1	0.2	0.1	0.8
All Fish													
Sample Size	18	219	160	211	1,181	8	3	2,176	286	11	215	1	4,489
Percent	0.4	4.3	4.6	4.9	24.6	0.2	0.1	48.7	7.5	0.2	4.2	0.1	100.0
Std. Error	0.1	0.3	0.4	0.4	0.7	0.1	0.1	0.8	0.5	0.1	0.3	0.1	

Appendix F.36. Length composition of sockeye salmon in the Canyon Island (Taku River) fish wheel catch by sex, age class, and time period strata, 1990.

		Brood Year and Age Class												
		1988	1987		1986			1985			1984		1983	
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Weeks 23 - 25 (June 3 - 23)														
Male	Avg. Length		400		583	478			577			577		571
	Std. Error				12.5	33.8			3.0			8.9		3.9
	Sample Size		1		2	4			83			9		99
Female	Avg. Length				565	506			561	540		559		552
	Std. Error					7.1			2.1	30.0		7.3		2.6
	Sample Size				1	23			111	2		13		150
All Fish	Avg. Length		400		577	502			567	540		566		559
	Std. Error				9.3	7.7			1.9	30.0		5.9		2.3
	Sample Size		1		3	27			194	2		22		249
Statistical Week 26 (June 24 - 30)														
Male	Avg. Length		426		585	468			583	492	570	557		544
	Std. Error		12.4		21.1	6.4			2.9	16.0		11.7		4.8
	Sample Size		5		6	49			116	9	1	3		189
Female	Avg. Length				578	477			563	493		595		531
	Std. Error				2.5	4.2			2.9	11.6		10.6		4.0
	Sample Size				2	54			92	8		4		160
All Fish	Avg. Length		426		583	473			574	492	570	579		538
	Std. Error		12.4		15.5	3.8			2.2	9.8		10.6		3.2
	Sample Size		5		8	103			208	17	1	7		349
Statistical Week 27 (July 1 - 7)														
Male	Avg. Length	325	442	313	590	459			586	473	620	591		531
	Std. Error		22.4	3.3	13.9	3.6			2.0	10.8		5.3		3.7
	Sample Size	1	7	9	5	145			223	18	1	31		440
Female	Avg. Length		405		555	475			564	480	575	571		537
	Std. Error				13.4	3.6			2.3	9.8	10.4	6.1		2.9
	Sample Size		1		6	92			186	7	3	30		325
All Fish	Avg. Length	325	438	313	571	465			576	475	586	581		534
	Std. Error		20.0	3.3	10.7	2.6			1.6	8.1	13.4	4.2		2.5
	Sample Size	1	8	9	11	237			410	25	4	61		766
Statistical Week 28 (July 8 - 14)														
Male	Avg. Length		423	329	582	450	335	580	587	451		579		514
	Std. Error		4.9	4.6	12.1	3.2			2.5	8.3		9.1		4.6
	Sample Size		18	10	9	106	1	1	134	22		20		321
Female	Avg. Length		480		553	477			567	466		542		534
	Std. Error				11.7	3.9			2.3	7.6		10.3		3.3
	Sample Size		1		6	73			145	13		17		255
All Fish	Avg. Length		426	329	570	461	335	580	577	456		562		523
	Std. Error		5.5	4.6	9.2	2.6			1.8	6.0		7.4		3.0
	Sample Size		19	10	15	179	1	1	279	35		37		576
Statistical Week 29 (July 15 - 21)														
Male	Avg. Length	280	434	334	587	448	345		587	453		589		524
	Std. Error		5.7	8.4	9.4	5.3			2.4	9.4		6.4		5.5
	Sample Size	1	11	8	5	67	1		119	12		14		238
Female	Avg. Length				554	473			562	458		562		538
	Std. Error				10.0	4.7			2.7	10.9		3.8		3.8
	Sample Size				8	36			94	3		13		154
All Fish	Avg. Length	280	434	334	567	457	345		576	454		576		529
	Std. Error		5.7	8.4	8.3	4.0			2.0	7.7		4.6		3.7
	Sample Size	1	11	8	13	103	1		213	15		27		392
Statistical Week 30 (July 22 - 28)														
Male	Avg. Length	303	433	328	601	454	315		599	468	560	606		491
	Std. Error	7.5	5.7	5.8	6.5	4.9			3.7	10.4		10.7		5.8
	Sample Size	2	45	23	10	80	1		77	24	1	8		271
Female	Avg. Length		421		567	476			553	506	560	562		527
	Std. Error		9.2		3.7	4.5			4.5	8.0	10.0	11.1		3.7
	Sample Size		4		25	52			82	25	2	11		201
All Fish	Avg. Length	303	432	328	577	463	315		575	487	560	581		506
	Std. Error	7.5	5.3	5.8	4.1	3.6			3.4	7.0	5.8	9.1		3.8
	Sample Size	2	49	23	35	132	1		159	49	3	19		472
Statistical Week 31 (July 29 - August 4)														
Male	Avg. Length	307	426	325	579	468	313		584	483		599		488
	Std. Error	3.0	4.0	2.9	3.7	5.3	7.3		4.4	15.4		7.5		5.4
	Sample Size	5	52	37	22	88	3		103	15		7		332
Female	Avg. Length		435	355	557	482		615	559	485	600	559		525
	Std. Error		8.5	45.0	3.7	3.6			2.0	6.1		10.9		2.8
	Sample Size		14	2	32	89		1	156	29	1	5		329
All Fish	Avg. Length	307	428	327	566	475	313	615	569	484	600	582		507
	Std. Error	3.0	3.6	3.4	3.0	3.3	7.3		2.3	6.5		8.4		3.1
	Sample Size	5	66	39	54	177	3	1	260	44	1	12		662

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		Brood Year and Age Class												
		1988	1987		1986			1985			1984		1983	
		0.1	0.2	1.1	0.3	1.2	2.1	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Week 32 (August 5 - 11)														
Male	Avg. Length	332	419	325	586	463			596	497	580	587		510
	Std. Error	15.2	5.4	4.6	5.1	7.2			2.8	12.8	60.0	4.6		6.5
	Sample Size	5	35	16	9	42			87	19	2	11		226
Female	Avg. Length		388		569	495			568	492		588		547
	Std. Error		2.5		4.4	5.9			2.2	7.1		10.5		3.1
	Sample Size		2		25	50			126	12		8		223
All Fish	Avg. Length	332	417	325	573	480			580	495	580	587		528
	Std. Error	15.2	5.2	4.6	3.7	4.8			1.9	8.2	60.0	5.0		3.7
	Sample Size	5	37	16	34	92			213	31	2	19		449
Statistical Week 33 (August 12 - 18)														
Male	Avg. Length	335	411	331	595	496	330		587	517		582		500
	Std. Error		6.1	7.4	7.1	13.6			4.8	16.5		14.1		8.9
	Sample Size	2	17	21	5	26	1		53	10		5		140
Female	Avg. Length		395		556	481			564	490				531
	Std. Error				5.1	6.3			3.3	9.2				4.6
	Sample Size		1		14	34			58	11				118
All Fish	Avg. Length	335	410	331	567	488	330		575	503		582		514
	Std. Error		5.8	7.4	5.7	6.9			3.1	9.5		14.1		5.3
	Sample Size	2	18	21	19	60	1		111	21		5		258
Statistical Week 34 (August 19 - 25)														
Male	Avg. Length	310	421	315	581	497	310	640	583	529		568		466
	Std. Error		14.8	3.3	10.7	12.7			5.7	11.3		12.5		13.4
	Sample Size	1	4	21	4	17	1	1	16	7		2		74
Female	Avg. Length				558	497			554	497				529
	Std. Error				16.9	9.9			4.2	8.3				4.9
	Sample Size				3	16			37	16				72
All Fish	Avg. Length	310	421	315	571	497	310	640	563	506		568		497
	Std. Error		14.8	3.3	9.7	8.0			3.9	7.3		12.5		7.6
	Sample Size	1	4	21	7	33	1	1	53	23		2		146
Statistical Weeks 35 - 38 (August 26 - Sept. 22)														
Male	Avg. Length	305	430	329	570	473			581	520		595		478
	Std. Error			3.7	10.0	18.5			6.4	10.0				17.2
	Sample Size	1	1	12	2	8			16	2		1		43
Female	Avg. Length				546	492			566	491			555	530
	Std. Error				9.9	6.7			5.8	9.7				5.5
	Sample Size				8	18			33	17			1	77
All Fish	Avg. Length	305	430	329	551	486			571	494		595	555	511
	Std. Error			3.7	8.6	7.4			4.5	8.9				7.4
	Sample Size	1	1	12	10	26			49	19		1	1	120
Combined Periods (Lengths unweighted)														
Male	Avg. Length	312	424	325	585	469	325	610	586	488	583	584		511
	Std. Error	5.5	2.3	1.8	2.8	1.8	5.2	30.0	1.0	4.4	21.5	2.8		1.9
	Sample Size	18	196	157	79	632	8	2	1027	138	5	111		2373
Female	Avg. Length		421	355	560	485		615	562	491	578	567	555	535
	Std. Error		6.7	45.0	2.0	1.5			0.8	2.9	8.0	3.4		1.1
	Sample Size		23	2	130	537		1	1120	143	6	101	1	2064
All Fish	Avg. Length	312	424	326	570	477	325	612	573	490	579	578	555	522
	Std. Error	5.5	2.2	1.8	1.8	1.2	5.2	17.4	0.7	2.6	10.2	2.3		1.1
	Sample Size	18	219	159	209	1169	8	3	2149	281	11	212	1	4439

Appendix F.37. Catches, numbers tagged, and CPUE (catch/wheel hour) of sockeye salmon in fish wheels at Canyon Island, 1990. Tagging totals were reduced to account for tagged fish recovered in downstream fisheries.

	Daily Sockeye Catch	Cumul. Sockeye Catch	Daily Sockeye Tagged	Cumul. Sockeye Tagged	Daily Cpue	Daily Proport. Cpue	Cumul. Proport. Cpue
07-Jun	2	2	2	2	0.042	0.000	0.000
08-Jun	2	4	1	3	0.044	0.000	0.001
09-Jun	7	11	6	9	0.150	0.001	0.002
10-Jun	10	21	9	18	0.214	0.001	0.003
11-Jun	11	32	10	28	0.248	0.002	0.005
12-Jun	24	56	23	51	0.528	0.004	0.009
13-Jun	20	76	17	68	0.437	0.003	0.012
14-Jun	15	91	14	82	0.350	0.002	0.014
15-Jun	48	139	48	130	1.048	0.007	0.021
16-Jun	40	179	39	169	0.857	0.006	0.027
17-Jun	30	209	28	197	0.662	0.005	0.032
18-Jun	36	245	30	227	0.778	0.005	0.037
19-Jun	35	280	35	262	0.767	0.005	0.042
20-Jun	0	280	0	262	0.000	0.000	0.042
21-Jun	21	301	15	277	0.458	0.003	0.046
22-Jun	18	319	17	294	0.388	0.003	0.048
23-Jun	32	351	31	325	0.691	0.005	0.053
24-Jun	48	399	45	370	1.063	0.007	0.061
25-Jun	96	495	70	440	2.268	0.016	0.076
26-Jun	88	583	84	524	1.970	0.014	0.090
27-Jun	72	655	65	589	1.594	0.011	0.101
28-Jun	36	691	36	625	0.799	0.006	0.107
29-Jun	57	748	49	674	1.291	0.009	0.115
30-Jun	125	873	116	790	2.857	0.020	0.135
01-Jul	147	1,020	134	924	3.373	0.023	0.159
02-Jul	231	1,251	193	1,117	5.612	0.039	0.198
03-Jul	202	1,453	187	1,304	4.627	0.032	0.230
04-Jul	185	1,638	171	1,475	4.213	0.029	0.259
05-Jul	92	1,730	77	1,552	2.087	0.014	0.273
06-Jul	68	1,798	57	1,609	1.546	0.011	0.284
07-Jul	99	1,897	90	1,699	2.221	0.015	0.300
08-Jul	107	2,004	95	1,794	2.441	0.017	0.316
09-Jul	136	2,140	119	1,913	3.121	0.022	0.338
10-Jul	178	2,318	162	2,075	4.140	0.029	0.367
11-Jul	159	2,477	133	2,208	3.627	0.025	0.392
12-Jul	118	2,595	100	2,308	2.657	0.018	0.410
13-Jul	53	2,648	41	2,349	1.191	0.008	0.419
14-Jul	48	2,696	39	2,388	1.059	0.007	0.426
15-Jul	56	2,752	48	2,436	1.222	0.008	0.435
16-Jul	96	2,848	89	2,525	2.149	0.015	0.449
17-Jul	146	2,994	131	2,656	3.666	0.025	0.475
18-Jul	105	3,099	97	2,753	2.845	0.020	0.495
19-Jul	4	3,103	4	2,757	0.448	0.003	0.498
20-Jul	16	3,119	13	2,770	0.853	0.006	0.504
21-Jul	81	3,200	72	2,842	1.828	0.013	0.516
22-Jul	96	3,296	89	2,931	2.203	0.015	0.532
23-Jul	109	3,405	97	3,028	2.777	0.019	0.551
24-Jul	70	3,475	66	3,094	3.256	0.023	0.573
25-Jul	74	3,549	58	3,152	2.260	0.016	0.589
26-Jul	124	3,673	109	3,261	2.959	0.021	0.610
27-Jul	96	3,769	74	3,335	2.318	0.016	0.626
28-Jul	63	3,832	43	3,378	1.392	0.010	0.635
29-Jul	88	3,920	69	3,447	1.970	0.014	0.649
30-Jul	209	4,129	183	3,630	4.750	0.033	0.682
31-Jul	208	4,337	179	3,809	4.837	0.034	0.716

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	Daily Sockeye Catch	Cumul. Sockeye Catch	Daily Sockeye Tagged	Cumul. Sockeye Tagged	Daily Cpue	Daily Proport. Cpue	Cumul. Proport. Cpue
01-Aug	201	4,538	182	3,991	4.702	0.033	0.748
02-Aug	80	4,618	70	4,061	1.812	0.013	0.761
03-Aug	46	4,664	41	4,102	1.009	0.007	0.768
04-Aug	61	4,725	53	4,155	1.353	0.009	0.777
05-Aug	106	4,831	94	4,249	2.343	0.016	0.793
06-Aug	90	4,921	84	4,333	2.007	0.014	0.807
07-Aug	74	4,995	64	4,397	1.630	0.011	0.819
08-Aug	63	5,058	57	4,454	1.377	0.010	0.828
09-Aug	74	5,132	62	4,516	1.630	0.011	0.839
10-Aug	125	5,257	118	4,634	2.804	0.019	0.859
11-Aug	55	5,312	52	4,686	1.196	0.008	0.867
12-Aug	57	5,369	53	4,739	1.235	0.009	0.876
13-Aug	63	5,432	57	4,796	1.385	0.010	0.885
14-Aug	94	5,526	90	4,886	2.153	0.015	0.900
15-Aug	97	5,623	81	4,967	2.256	0.016	0.916
16-Aug	46	5,669	35	5,002	1.628	0.011	0.927
17-Aug	16	5,685	13	5,015	0.669	0.005	0.932
18-Aug	17	5,702	14	5,029	0.595	0.004	0.936
19-Aug	11	5,713	10	5,039	0.459	0.003	0.939
20-Aug	0	5,713	0	5,039	0.000	0.000	0.939
21-Aug	17	5,730	17	5,056	0.731	0.005	0.944
22-Aug	65	5,795	54	5,110	1.461	0.010	0.954
23-Aug	64	5,859	54	5,164	1.417	0.010	0.964
24-Aug	25	5,884	17	5,181	0.540	0.004	0.968
25-Aug	9	5,893	8	5,189	0.192	0.001	0.969
26-Aug	23	5,916	18	5,207	0.493	0.003	0.973
27-Aug	11	5,927	9	5,216	0.281	0.002	0.975
28-Aug	29	5,956	24	5,240	0.638	0.004	0.979
29-Aug	55	6,011	47	5,287	1.289	0.009	0.988
30-Aug	16	6,027	10	5,297	0.358	0.002	0.991
31-Aug	5	6,032	4	5,301	0.113	0.001	0.991
01-Sep	3	6,035	2	5,303	0.064	0.000	0.992
02-Sep	0	6,035	0	5,303	0.000	0.000	0.992
03-Sep	0	6,035	0	5,303	0.000	0.000	0.992
04-Sep	10	6,045	8	5,311	0.214	0.001	0.993
05-Sep	4	6,049	3	5,314	0.090	0.001	0.994
06-Sep	3	6,052	3	5,317	0.067	0.000	0.994
07-Sep	10	6,062	8	5,325	0.220	0.002	0.996
08-Sep	4	6,066	3	5,328	0.086	0.001	0.996
09-Sep	1	6,067	1	5,329	0.021	0.000	0.997
10-Sep	0	6,067	0	5,329	0.000	0.000	0.997
11-Sep	1	6,068	1	5,330	0.022	0.000	0.997
12-Sep	1	6,069	1	5,331	0.021	0.000	0.997
13-Sep	1	6,070	1	5,332	0.021	0.000	0.997
14-Sep	2	6,072	2	5,334	0.044	0.000	0.997
15-Sep	3	6,075	2	5,336	0.065	0.000	0.998
16-Sep	8	6,083	6	5,342	0.182	0.001	0.999
17-Sep	2	6,085	1	5,343	0.043	0.000	0.999
18-Sep	0	6,085	0	5,343	0.000	0.000	0.999
19-Sep	0	6,085	0	5,343	0.000	0.000	0.999
20-Sep	0	6,085	0	5,343	0.000	0.000	0.999
21-Sep	0	6,085	0	5,343	0.000	0.000	0.999
22-Sep	3	6,088	2	5,345	0.088	0.001	1.000
23-Sep	0	6,088	0	5,345	0.000	0.000	1.000

Appendix F.38. Age composition of sockeye salmon in the Fish Creek (Taku River) escapement by sex and age class, 1990.

	Brood Year and Age Class					
	1987	1986		1985	1984	
	1.1	0.3	1.2	1.3	2.3	Total
Sample Dates: (September 19 and October 14)						
Male						
Sample Size	1		9	20	1	31
Percent	1.6		14.1	31.3	1.6	48.4
Std. Error	1.6		4.4	5.8	1.6	6.3
Female						
Sample Size		2	2	28	1	33
Percent		3.1	3.1	43.8	1.6	51.6
Std. Error		2.2	2.2	6.2	1.6	6.3
All Fish						
Sample Size	1	2	11	48	2	64
Percent	1.6	3.1	17.2	75.0	3.1	100.0
Std. Error	1.6	2.2	4.7	5.4	2.2	

Appendix F.39. Length composition of sockeye salmon in the Fish Creek (Taku River) escapement by sex and age class, 1990.

		Brood Year and Age Class					
		1987	1986		1985	1984	
		1.1	0.3	1.2	1.3	2.3	Total
Sample Dates: (September 19 and October 14)							
Male	Avg. Length	350		438	586	610	539
	Std. Error			7.4	8.0		14.9
	Sample Size	1		8	20	1	30
Female	Avg. Length		580	445	559	575	554
	Std. Error		20.0	25.0	3.5		6.0
	Sample Size		2	2	28	1	33
All Fish	Avg. Length	350	580	439	570	593	547
	Std. Error		20.0	7.0	4.3	17.5	7.8
	Sample Size	1	2	10	48	2	63

Appendix F.40. Age composition of sockeye salmon in the Yehring Creek escapement by sex and age class, 1990.

	Brood Year and Age Class		
	1986	1985	
	1.2	1.3	Total
Escapement Dates: (Aug. 25 - Sept. 30)			
Sample Dates: (Aug. 25 - Sept. 30)			
Male			
Sample Size	9	17	26
Percent	19.1	36.2	55.3
Std. Error	5.8	7.1	7.3
Female			
Sample Size	3	18	21
Percent	6.4	38.3	44.7
Std. Error	3.6	7.2	7.3
All Fish			
Sample Size	12	35	47
Percent	25.5	74.5	100.0
Std. Error	6.4	6.4	

Appendix F.41. Length composition of sockeye salmon in the Yehring Creek escapement by sex and age class, 1990.

		Brood Year and Age Class		
		1986	1985	
		1.2	1.3	Total
Escapement Dates: (Aug. 25 - Sept. 30)				
Sample Dates: (Aug. 25 - Sept. 30)				
Male	Avg. Length	452	564	528
	Std. Error	8.9	10.5	13.1
	Sample Size	8	17	25
Female	Avg. Length	460	543	531
	Std. Error	15.0	5.6	8.3
	Sample Size	3	18	21
All Fish	Avg. Length	454	554	530
	Std. Error	7.3	6.0	8.0
	Sample Size	11	35	46

Appendix F.42. Daily sockeye salmon counts and associated statistics from Yehring Creek weir, 1990[a].

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Aug.	25	0	0	0.0000	0.0000
Aug.	26	1	1	0.0018	0.0018
Aug.	27	4	5	0.0071	0.0088
Aug.	28	142	147	0.2509	0.2597
Aug.	29	22	169	0.0389	0.2986
Aug.	30	1	170	0.0018	0.3004
Aug.	31	0	170	0.0000	0.3004
Sept.	1	0	170	0.0000	0.3004
Sept.	2	8	178	0.0141	0.3145
Sept.	3	1	179	0.0018	0.3163
Sept.	4	111	290	0.1961	0.5124
Sept.	5	42	332	0.0742	0.5866
Sept.	6	12	344	0.0212	0.6078
Sept.	7	2	346	0.0035	0.6113
Sept.	8	1	347	0.0018	0.6131
Sept.	9	0	347	0.0000	0.6131
Sept.	10	0	347	0.0000	0.6131
Sept.	11	14	361	0.0247	0.6378
Sept.	12	0	361	0.0000	0.6378
Sept.	13	10	371	0.0177	0.6555
Sept.	14	34	405	0.0601	0.7155
Sept.	15	81	486	0.1431	0.8587
Sept.	16	14	500	0.0247	0.8834
Sept.	17	0	500	0.0000	0.8834
Sept.	18	0	500	0.0000	0.8834
Sept.	19	15	515	0.0265	0.9099
Sept.	20	1	516	0.0018	0.9117
Sept.	21	21	537	0.0371	0.9488
Sept.	22	21	558	0.0371	0.9859
Sept.	23	0	558	0.0000	0.9859
Sept.	24	0	558	0.0000	0.9859
Sept.	25	0	558	0.0000	0.9859
Sept.	26	1	559	0.0018	0.9876
Sept.	27	1	560	0.0018	0.9894
Sept.	28	4	564	0.0071	0.9965
Sept.	29	0	564	0.0000	0.9965
Sept.	30	2	566	0.0035	1.0000

Mean Day of Migration = Sept. 7 Variance = 73.1 Days squared

[a] Incomplete count. Unknown number of fish passed upriver prior to 25 August.

Appendix F.43. Age composition of sockeye salmon in the Stuhini Creek (S. Fork Lake; Taku River) escapement by sex and age class, 1990.

	Brood Year and Age Class						
	1987		1986		1985		
	0.2	1.1	0.3	1.2	1.3	2.2	Total
Sample Dates: (October 4, 14)							
Male							
Sample Size	7	3	8	12	41	1	72
Percent	5.5	2.4	6.3	9.4	32.3	0.8	56.7
Std. Error	2.0	1.3	2.2	2.6	4.1	0.8	4.4
Female							
Sample Size			13	5	37		55
Percent			10.2	3.9	29.1		43.3
Std. Error			2.7	1.7	4.0		4.4
All Fish							
Sample Size	7	3	21	17	78	1	127
Percent	5.5	2.4	16.5	13.4	61.4	0.8	100.0
Std. Error	2.0	1.3	3.3	3.0	4.3	0.8	

Appendix F.44. Length composition of sockeye salmon in the Stuhini Creek (S. Fork Lake; Taku River) escapement by sex and age class, 1990.

		Brood Year and Age Class						
		1987		1986		1985		
		0.2	1.1	0.3	1.2	1.3	2.2	Total
Sample Dates: (October 4, 14)								
Male	Avg. Length	415	340	590	441	592	460	515
	Std. Error	16.1	20.0	5.4	10.5	5.2		18.7
	Sample Size	3	2	4	5	10	1	25
Female	Avg. Length			541	475	548		535
	Std. Error			3.5	7.6	5.7		6.7
	Sample Size			6	3	11		20
All Fish	Avg. Length	415	340	561	454	569	460	524
	Std. Error	16.1	20.0	8.5	9.2	6.2		10.8
	Sample Size	3	2	10	8	21	1	45

Appendix F.45. Age composition of sockeye salmon in the Tuskwa Slough (Taku River) escapement by sex and age class, 1990.

	Brood Year and Age Class								
	1988	1987		1986		1985		1984	
	0.1	0.2	1.1	0.3	1.2	0.4	1.3	1.4	Total
Sample Dates: (October 4)									
Male									
Sample Size	2	26	6	11	17		15		77
Percent	1.6	21.0	4.8	8.9	13.7		12.1		62.1
Std. Error	1.1	3.6	1.9	2.5	3.1		2.9		4.3
Female									
Sample Size				13	2	1	30	1	47
Percent				10.5	1.6	0.8	24.2	0.8	37.9
Std. Error				2.7	1.1	0.8	3.8	0.8	4.3
All Fish									
Sample Size	2	26	6	24	19	1	45	1	124
Percent	1.6	21.0	4.8	19.4	15.3	0.8	36.3	0.8	100.0
Std. Error	1.1	3.6	1.9	3.5	3.2	0.8	4.3	0.8	

Appendix F.46. Length composition of sockeye salmon in the Tuskwa Slough (Taku River) escapement by sex and age class, 1990.

		Brood Year and Age Class								
		1988	1987		1986		1985		1984	
		0.1	0.2	1.1	0.3	1.2	0.4	1.3	1.4	Total
Sample Dates: (October 4)										
Male	Avg. Length	313	426	315	595	438		594		474
	Std. Error	17.5	5.3	9.7	8.0	7.7		7.2		11.1
	Sample Size	2	26	6	11	17		15		77
Female	Avg. Length				558	470	630	571	570	564
	Std. Error				4.7	20.0		4.6		4.7
	Sample Size				13	2	1	30	1	47
All Fish	Avg. Length	313	426	315	575	441	630	579	570	508
	Std. Error	17.5	5.3	9.7	5.8	7.4		4.2		8.1
	Sample Size	2	26	6	24	19	1	45	1	124

Appendix F.47. Age composition of sockeye salmon in the Shustahini Slough (Taku River) escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1988	1987		1986		1985		
	0.1	0.2	1.1	0.3	1.2	1.3	2.2	Total
Sample Dates: (October 4)								
Male								
Sample Size	2	4	2	3	3	3	1	18
Percent	6.5	12.9	6.5	9.7	9.7	9.7	3.2	58.1
Std. Error	4.5	6.1	4.5	5.4	5.4	5.4	3.2	9.0
Female								
Sample Size		1		6	1	5		13
Percent		3.2		19.4	3.2	16.1		41.9
Std. Error		3.2		7.2	3.2	6.7		9.0
All Fish								
Sample Size	2	5	2	9	4	8	1	31
Percent	6.5	16.1	6.5	29.0	12.9	25.8	3.2	100.0
Std. Error	4.5	6.7	4.5	8.3	6.1	8.0	3.2	

Appendix F.48. Length composition of sockeye salmon in the Shustahini Slough (Taku River) escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1988	1987		1986		1985		
		0.1	0.2	1.1	0.3	1.2	1.3	2.2	Total
Sample Dates: (October 4)									
Male	Avg. Length	320	418	313	570	477	620	455	466
	Std. Error	5.0	6.3	7.5	10.4	3.3	10.4		25.9
	Sample Size	2	4	2	3	3	3	1	18
Female	Avg. Length		470		561	485	557		547
	Std. Error				7.9		13.3		10.4
	Sample Size		1		6	1	5		13
All Fish	Avg. Length	320	428	313	564	479	581	455	500
	Std. Error	5.0	11.6	7.5	6.1	3.1	14.4		17.1
	Sample Size	2	5	2	9	4	8	1	31

Appendix F.49. Age composition of sockeye salmon in the Kuthai Lake (Taku River) escapement by sex and age class, 1990.

	Brood Year and Age Class				
	1986	1985		1984	
	1.2	1.3	2.2	2.3	Total
Statistical Week	36	(Sept. 2 - 8)			
Male					
Sample Size	8	106	3	16	133
Percent	2.5	32.6	0.9	4.9	40.9
Std. Error	0.8	2.6	0.5	1.2	2.7
Number	246	3,262	92	492	4,092
Female					
Sample Size	26	132	6	28	192
Percent	8.0	40.6	1.8	8.6	59.1
Std. Error	1.5	2.7	0.7	1.5	2.7
Number	800	4,062	185	862	5,908
All Fish					
Sample Size	34	238	9	44	325
Percent	10.5	73.2	2.8	13.5	100.0
Std. Error	1.7	2.4	0.9	1.9	
Number	1,046	7,323	277	1,354	10,000

Appendix F.50. Length composition of sockeye salmon in the Kuthai Lake (Taku River) escapement by sex and age class, 1990.

		Brood Year and Age Class				
		1986	1985		1984	
		1.2	1.3	2.2	2.3	Total
Statistical Week	36	(Sept. 2 - 8)				
Male	Avg. Length	473	578	463	578	569
	Std. Error	10.0	3.0	8.8	7.8	3.7
	Sample Size	8	105	3	16	132
Female	Avg. Length	460	546	492	542	532
	Std. Error	5.8	2.3	16.3	3.3	2.9
	Sample Size	26	132	5	28	191
All Fish	Avg. Length	463	560	481	555	547
	Std. Error	5.1	2.1	11.4	4.4	2.5
	Sample Size	34	237	8	44	323

Appendix F.51. Age composition of sockeye salmon in the Little Trapper Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class					
	1986	1985		1984		
	1.2	1.3	2.2	1.4	2.3	Total
Escapement Dates: (July 22 - 28)						
Sample Dates: (July 26 - 28)						
Male						
Sample Size	3	54			6	63
Percent	3.0	53.5			5.9	62.4
Std. Error	1.6	4.8			2.3	4.7
Number	40	712			79	831
Female						
Sample Size	2	35			1	38
Percent	2.0	34.7			1.0	37.6
Std. Error	1.3	4.6			1.0	4.7
Number	26	462			13	501
All Fish						
Sample Size	6	96			8	110
Percent	5.5	87.3			7.3	100.0
Std. Error	2.1	3.1			2.4	
Number	79	1,266			106	1,451
Escapement Dates: (July 29 - August 4)						
Sample Dates: (July 29 - August 4)						
Male						
Sample Size	7	110		1	9	127
Percent	3.4	52.9		0.5	4.3	61.1
Std. Error	1.2	3.3		0.5	1.4	3.3
Number	93	1,458		13	119	1,683
Female						
Sample Size	2	74		1	4	81
Percent	1.0	35.6		0.5	1.9	38.9
Std. Error	0.7	3.2		0.5	0.9	3.3
Number	27	981		13	53	1,074
All Fish						
Sample Size	9	184		2	13	208
Percent	4.3	88.5		1.0	6.3	100.0
Std. Error	1.4	2.1		0.7	1.6	
Number	119	2,439		27	172	2,757
Escapement Dates: (August 5 - 11)						
Sample Dates: (August 5 - 11)						
Male						
Sample Size	22	54	14		13	103
Percent	11.2	27.6	7.1		6.6	52.6
Std. Error	2.2	3.1	1.8		1.7	3.5
Number	344	845	219		204	1,612
Female						
Sample Size	5	71	4		13	93
Percent	2.6	36.2	2.0		6.6	47.4
Std. Error	1.1	3.3	1.0		1.7	3.5
Number	78	1,111	63		203	1,455
All Fish						
Sample Size	27	125	18		26	196
Percent	13.8	63.8	9.2		13.3	100.0
Std. Error	2.4	3.3	2.0		2.4	
Number	422	1,956	282		407	3,067

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	Brood Year and Age Class					
	1986	1985		1984		
	1.2	1.3	2.2	1.4	2.3	Total
Escapement Dates: (August 12 - Sept. 15)						
Sample Dates: (August 12, 13, 17, 20, 26, 30)						
Male						
Sample Size	17	33	15		21	86
Percent	9.3	18.1	8.2		11.5	47.3
Std. Error	2.1	2.7	2.0		2.3	3.6
Number	203	392	179		250	1,024
Female						
Sample Size	12	45	18		21	96
Percent	6.6	24.7	9.9		11.5	52.7
Std. Error	1.8	3.1	2.1		2.3	3.6
Number	143	537	214		250	1,144
All Fish						
Sample Size	29	78	33		42	182
Percent	15.9	42.9	18.1		23.1	100.0
Std. Error	2.6	3.5	2.7		3.0	
Number	346	929	393		500	2,168
Combined Periods (Percentages are weighted by period escapements)						
Male						
Sample Size	49	251	29	1	49	379
Percent	7.3	36.6	4.3	0.1	7.0	55.2
Std. Error	1.0	1.7	0.7	0.1	0.9	1.8
Number	680	3,407	398	13	652	5,150
Female						
Sample Size	21	225	22	1	39	308
Percent	2.9	33.1	3.0	0.1	5.6	44.8
Std. Error	0.6	1.7	0.6	0.1	0.8	1.8
Number	274	3,091	277	13	519	4,174
All Fish						
Sample Size	71	483	51	2	89	696
Percent	10.2	69.8	7.1	0.3	12.5	100.0
Std. Error	1.1	1.6	0.9	0.2	1.2	
Number	966	6,590	675	27	1,185	9,443

Appendix F.52. Length composition of sockeye salmon in the Little Trapper Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class					
		1986	1985		1984		
		1.2	1.3	2.2	1.4	2.3	Total
Escapement Dates: (July 22 - 28) Sample Dates: (July 26 - 28)							
Male	Avg. Length	413	511			516	507
	Std. Error	27.5	3.2			10.0	4.1
	Sample Size	3	54			6	63
Female	Avg. Length	455	498			494	495
	Std. Error	18.0	2.6				2.9
	Sample Size	2	35			1	38
All Fish	Avg. Length	425	505			516	502
	Std. Error	16.4	2.2			8.7	2.8
	Sample Size	6	96			8	110
Escapement Dates: (July 29 - August 4) Sample Dates: (July 29 - August 4)							
Male	Avg. Length	408	502		527	509	497
	Std. Error	14.3	2.1			6.2	2.8
	Sample Size	7	110		1	9	127
Female	Avg. Length	447	487		497	501	487
	Std. Error	11.0	2.2			8.2	2.2
	Sample Size	2	74		1	4	81
All Fish	Avg. Length	417	496		512	506	493
	Std. Error	12.5	1.6		15.0	4.9	1.9
	Sample Size	9	184		2	13	208
Escapement Dates: (August 5 - 11) Sample Dates: (August 5 - 11)							
Male	Avg. Length	403	500	404		505	467
	Std. Error	10.3	3.5	8.4		4.7	5.5
	Sample Size	22	54	14		13	103
Female	Avg. Length	432	482	421		489	478
	Std. Error	9.2	2.1	12.3		4.0	2.5
	Sample Size	5	71	4		13	93
All Fish	Avg. Length	408	490	408		497	472
	Std. Error	8.8	2.1	7.1		3.4	3.2
	Sample Size	27	125	18		26	196
Escapement Dates: (August 12 - Sept. 15) Sample Dates: (August 12, 13, 17, 20, 26, 30)							
Male	Avg. Length	399	502	406		500	464
	Std. Error	9.9	3.5	6.6		6.0	6.0
	Sample Size	17	33	15		21	86
Female	Avg. Length	416	482	418		471	459
	Std. Error	5.7	3.2	3.9		6.2	3.7
	Sample Size	12	45	18		21	96
All Fish	Avg. Length	406	490	412		485	462
	Std. Error	6.4	2.6	3.8		4.8	3.4
	Sample Size	29	78	33		42	182
Combined Periods (Lengths weighted by period escapements)							
Male	Avg. Length	405	503	405	527	506	481
	Std. Error	6.2	1.5	5.2		3.3	2.5
	Sample Size	49	251	29	1	49	379
Female	Avg. Length	436	486	420	497	489	479
	Std. Error	5.1	1.3	3.8		4.1	1.7
	Sample Size	21	225	22	1	39	308
All Fish	Avg. Length	413	494	410	512	500	480
	Std. Error	4.7	1.1	3.5	15.0	2.9	1.6
	Sample Size	71	483	51	2	89	696

Appendix F.53. Daily sockeye salmon counts and associated statistics from Little Trapper Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	22	0	0	0.0000	0.0000
July	23	0	0	0.0000	0.0000
July	24	0	0	0.0000	0.0000
July	25	69	69	0.0073	0.0073
July	26	450	519	0.0477	0.0550
July	27	557	1,076	0.0590	0.1139
July	28	375	1,451	0.0397	0.1537
July	29	530	1,981	0.0561	0.2098
July	30	586	2,567	0.0621	0.2718
July	31	389	2,956	0.0412	0.3130
Aug.	1	178	3,134	0.0188	0.3319
Aug.	2	295	3,429	0.0312	0.3631
Aug.	3	198	3,627	0.0210	0.3841
Aug.	4	581	4,208	0.0615	0.4456
Aug.	5	324	4,532	0.0343	0.4799
Aug.	6	312	4,844	0.0330	0.5130
Aug.	7	336	5,180	0.0356	0.5486
Aug.	8	294	5,474	0.0311	0.5797
Aug.	9	530	6,004	0.0561	0.6358
Aug.	10	706	6,710	0.0748	0.7106
Aug.	11	565	7,275	0.0598	0.7704
Aug.	12	561	7,836	0.0594	0.8298
Aug.	13	293	8,129	0.0310	0.8608
Aug.	14	208	8,337	0.0220	0.8829
Aug.	15	206	8,543	0.0218	0.9047
Aug.	16	60	8,603	0.0064	0.9110
Aug.	17	52	8,655	0.0055	0.9166
Aug.	18	91	8,746	0.0096	0.9262
Aug.	19	93	8,839	0.0098	0.9360
Aug.	20	48	8,887	0.0051	0.9411
Aug.	21	15	8,902	0.0016	0.9427
Aug.	22	41	8,943	0.0043	0.9471
Aug.	23	46	8,989	0.0049	0.9519
Aug.	24	56	9,045	0.0059	0.9579
Aug.	25	33	9,078	0.0035	0.9613
Aug.	26	20	9,098	0.0021	0.9635
Aug.	27	22	9,120	0.0023	0.9658
Aug.	28	9	9,129	0.0010	0.9667
Aug.	29	22	9,151	0.0023	0.9691
Aug.	30	34	9,185	0.0036	0.9727
Aug.	31	29	9,214	0.0031	0.9757
Sept.	1	11	9,225	0.0012	0.9769
Sept.	2	20	9,245	0.0021	0.9790
Sept.	3	11	9,256	0.0012	0.9802
Sept.	4	21	9,277	0.0022	0.9824
Sept.	5	7	9,284	0.0007	0.9832
Sept.	6	7	9,291	0.0007	0.9839
Sept.	7	12	9,303	0.0013	0.9852
Sept.	8	47	9,350	0.0050	0.9902
Sept.	9	11	9,361	0.0012	0.9913
Sept.	10	13	9,374	0.0014	0.9927
Sept.	11	14	9,388	0.0015	0.9942
Sept.	12	13	9,401	0.0014	0.9956
Sept.	13	34	9,435	0.0036	0.9992
Sept.	14	8	9,443	0.0008	1.0000
Sept.	15	0	9,443	0.0000	1.0000

Mean Day of Migration = Aug. 7 Variance = 80.8 Days squared

Appendix F.54. Age composition of sockeye salmon in the Little Tatsamenie Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class						
	1987	1986		1985		1984	
	0.2	0.3	1.2	1.3	2.2	2.3	Total
Escapement Dates: (July 29 - Sept. 1)							
Sample Dates: (August 6, 15, 22, 25-31)							
Male							
Sample Size	20		82	86	10	3	201
Percent	5.2		21.4	22.5	2.6	0.8	52.5
Std. Error	1.0		1.8	1.9	0.7	0.4	2.2
Number	85		351	368	43	13	860
Female							
Sample Size	2	1	88	82	7	2	182
Percent	0.5	0.3	23.0	21.4	1.8	0.5	47.5
Std. Error	0.3	0.2	1.9	1.8	0.6	0.3	2.2
Number	9	4	376	350	30	9	778
All Fish							
Sample Size	22	1	170	168	17	5	383
Percent	5.7	0.3	44.4	43.9	4.4	1.3	100.0
Std. Error	1.0	0.2	2.2	2.2	0.9	0.5	
Number	94	4	727	718	73	22	1,638
Escapement Dates: (Sept. 2 - 8)							
Sample Dates: (Sept. 1 - 8)							
Male							
Sample Size	21	1	24	35	10	2	93
Percent	8.6	0.4	9.9	14.4	4.1	0.8	38.3
Std. Error	1.7	0.4	1.8	2.1	1.2	0.5	2.9
Number	192	9	219	320	91	19	850
Female							
Sample Size	1	1	75	41	30	2	150
Percent	0.4	0.4	30.9	16.9	12.3	0.8	61.7
Std. Error	0.4	0.4	2.8	2.3	2.0	0.5	2.9
Number	9	9	685	375	274	18	1,370
All Fish							
Sample Size	22	2	99	76	40	4	243
Percent	9.1	0.8	40.7	31.3	16.5	1.6	100.0
Std. Error	1.7	0.5	3.0	2.8	2.2	0.8	
Number	201	18	904	695	365	37	2,220

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	Brood Year and Age Class						
	1987	1986		1985		1984	
	0.2	0.3	1.2	1.3	2.2	2.3	Total
Escapement Dates: (Sept. 9 - Nov. 3)							
Sample Dates: (Sept. 9, 14, 16, 21, 24, Oct. 1)							
Male							
Sample Size	1		7	18	6	9	41
Percent	0.9		6.0	15.4	5.1	7.7	35.0
Std. Error	0.8		2.1	3.2	2.0	2.4	4.3
Number	16		110	282	94	140	642
Female							
Sample Size	2	1	24	18	22	9	76
Percent	1.7	0.9	20.5	15.4	18.8	7.7	65.0
Std. Error	1.2	0.8	3.6	3.2	3.5	2.4	4.3
Number	31	16	375	282	345	141	1,190
All Fish							
Sample Size	3	1	31	36	28	19	118
Percent	2.5	0.8	26.3	30.5	23.7	16.1	100.0
Std. Error	1.4	0.8	3.9	4.1	3.8	3.3	
Number	47	16	485	564	439	297	1,848
Combined Periods (Percentages are weighted by period escapements)							
Male							
Sample Size	42	1	113	139	26	14	335
Percent	5.1	0.2	11.9	17.0	4.0	3.0	41.3
Std. Error	0.8	0.2	1.1	1.4	0.8	0.8	1.9
Number	293	9	680	970	228	172	2,351
Female							
Sample Size	5	3	187	141	59	13	408
Percent	0.9	0.5	25.3	17.7	11.4	2.9	58.7
Std. Error	0.4	0.3	1.7	1.5	1.4	0.8	1.9
Number	49	29	1,436	1,007	649	168	3,339
All Fish							
Sample Size	47	4	300	280	85	28	744
Percent	6.0	0.7	37.1	34.6	15.4	6.2	100.0
Std. Error	0.9	0.3	1.8	1.8	1.5	1.1	
Number	342	38	2,116	1,977	877	356	5,706

Appendix F.55. Length composition of sockeye salmon in the Little Tatsamenie Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class						
		1987	1986		1985		1984	
		0.2	0.3	1.2	1.3	2.2	2.3	Total
Escapement Dates: (July 29 - Sept. 1) Sample Dates: (August 6, 15, 22, 25 - 31, Sept. 1))								
Male	Avg. Length	378		412	535	471	541	466
	Std. Error	3.9		6.1	2.4	10.7	11.1	5.3
	Sample Size	20		82	86	10	3	201
Female	Avg. Length	399	492	450	503	441	519	474
	Std. Error	32.5		2.8	2.3	9.8	3.5	2.7
	Sample Size	2	1	88	82	7	2	182
All Fish	Avg. Length	379	492	432	520	458	532	470
	Std. Error	4.3		3.6	2.1	8.2	8.3	3.1
	Sample Size	22	1	170	168	17	5	383
Escapement Dates: (Sept. 2 - 8) Sample Dates: (Sept. 2 - 8)								
Male	Avg. Length	373	540	436	527	464	522	462
	Std. Error	4.2		11.5	3.7	15.0	26.5	7.3
	Sample Size	21	1	24	35	10	2	93
Female	Avg. Length	428	528	445	500	449	500	462
	Std. Error			1.9	4.0	3.0	9.5	2.6
	Sample Size	1	1	75	41	30	2	150
All Fish	Avg. Length	376	534	443	512	453	511	462
	Std. Error	4.7	6.0	3.1	3.1	4.4	13.1	3.2
	Sample Size	22	2	99	76	40	4	243
Escapement Dates: (Sept. 9 - Nov. 3) Sample Dates: (Sept. 9, 14, 16, 21, 24, Oct. 1)								
Male	Avg. Length	342		428	517	441	505	483
	Std. Error			18.3	6.6	13.9	11.1	8.5
	Sample Size	1		7	18	6	9	41
Female	Avg. Length	436	502	432	479	437	450	448
	Std. Error	11.0		2.9	7.8	3.1	8.2	3.3
	Sample Size	2	1	24	18	22	9	76
All Fish	Avg. Length	405	502	431	498	438	478	460
	Std. Error	32.0		4.5	6.0	3.7	8.9	4.0
	Sample Size	3	1	31	36	28	19	118
Combined Periods (Lengths weighted by period escapements)								
Male	Avg. Length	364	540	426	526	458	522	470
	Std. Error	2.9		5.2	2.0	7.8	8.8	3.9
	Sample Size	42	1	113	139	26	14	335
Female	Avg. Length	422	509	442	494	443	489	461
	Std. Error	13.9	10.7	1.6	2.1	2.3	9.8	1.7
	Sample Size	5	3	187	141	59	13	408
All Fish	Avg. Length	386	512	436	510	450	506	464
	Std. Error	3.6	11.1	2.3	1.7	3.0	7.6	2.0
	Sample Size	47	4	300	280	85	28	744

[a] Length measurements from post orbit to hypural plate.

Appendix F.56. Daily sockeye salmon counts and associated statistics from Little Tatsamenie Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	30	1	1	0.0002	0.0002
July	31	1	2	0.0002	0.0004
Aug.	1	1	3	0.0002	0.0005
Aug.	2	4	7	0.0007	0.0012
Aug.	3	0	7	0.0000	0.0012
Aug.	4	0	7	0.0000	0.0012
Aug.	5	3	10	0.0005	0.0018
Aug.	6	4	14	0.0007	0.0025
Aug.	7	5	19	0.0009	0.0033
Aug.	8	4	23	0.0007	0.0040
Aug.	9	6	29	0.0011	0.0051
Aug.	10	3	32	0.0005	0.0056
Aug.	11	2	34	0.0004	0.0060
Aug.	12	47	81	0.0082	0.0142
Aug.	13	31	112	0.0054	0.0196
Aug.	14	33	145	0.0058	0.0254
Aug.	15	15	160	0.0026	0.0280
Aug.	16	6	166	0.0011	0.0291
Aug.	17	7	173	0.0012	0.0303
Aug.	18	4	177	0.0007	0.0310
Aug.	19	6	183	0.0011	0.0321
Aug.	20	3	186	0.0005	0.0326
Aug.	21	16	202	0.0028	0.0354
Aug.	22	35	237	0.0061	0.0415
Aug.	23	30	267	0.0053	0.0468
Aug.	24	44	311	0.0077	0.0545
Aug.	25	32	343	0.0056	0.0601
Aug.	26	94	437	0.0165	0.0766
Aug.	27	172	609	0.0301	0.1067
Aug.	28	198	807	0.0347	0.1414
Aug.	29	249	1,056	0.0436	0.1851
Aug.	30	275	1,331	0.0482	0.2333
Aug.	31	172	1,503	0.0301	0.2634
Sept.	1	135	1,638	0.0237	0.2871
Sept.	2	191	1,829	0.0335	0.3205
Sept.	3	357	2,186	0.0626	0.3831
Sept.	4	517	2,703	0.0906	0.4737
Sept.	5	307	3,010	0.0538	0.5275
Sept.	6	520	3,530	0.0911	0.6186
Sept.	7	267	3,797	0.0468	0.6654
Sept.	8	61	3,858	0.0107	0.6761
Sept.	9	75	3,933	0.0131	0.6893
Sept.	10	141	4,074	0.0247	0.7140
Sept.	11	50	4,124	0.0088	0.7227
Sept.	12	191	4,315	0.0335	0.7562
Sept.	13	203	4,518	0.0356	0.7918
Sept.	14	109	4,627	0.0191	0.8109
Sept.	15	132	4,759	0.0231	0.8340
Sept.	16	122	4,881	0.0214	0.8554
Sept.	17	97	4,978	0.0170	0.8724
Sept.	18	116	5,094	0.0203	0.8927
Sept.	19	107	5,201	0.0188	0.9115
Sept.	20	40	5,241	0.0070	0.9185
Sept.	21	72	5,313	0.0126	0.9311
Sept.	22	95	5,408	0.0166	0.9478
Sept.	23	52	5,460	0.0091	0.9569
Sept.	24	50	5,510	0.0088	0.9657
Sept.	25	29	5,539	0.0051	0.9707
Sept.	26	31	5,570	0.0054	0.9762
Sept.	27	8	5,578	0.0014	0.9776
Sept.	28	9	5,587	0.0016	0.9791
Sept.	29	3	5,590	0.0005	0.9797
Sept.	30	3	5,593	0.0005	0.9802

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Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Oct.	1	5	5,598	0.0009	0.9811
Oct.	2	6	5,604	0.0011	0.9821
Oct.	3	1	5,605	0.0002	0.9823
Oct.	4	9	5,614	0.0016	0.9839
Oct.	5	0	5,614	0.0000	0.9839
Oct.	6	8	5,622	0.0014	0.9853
Oct.	7	4	5,626	0.0007	0.9860
Oct.	8	8	5,634	0.0014	0.9874
Oct.	9	5	5,639	0.0009	0.9883
Oct.	10	11	5,650	0.0019	0.9902
Oct.	11	3	5,653	0.0005	0.9907
Oct.	12	4	5,657	0.0007	0.9914
Oct.	13	2	5,659	0.0004	0.9918
Oct.	14	2	5,661	0.0004	0.9921
Oct.	15	4	5,665	0.0007	0.9928
Oct.	16	4	5,669	0.0007	0.9935
Oct.	17	2	5,671	0.0004	0.9939
Oct.	18	3	5,674	0.0005	0.9944
Oct.	19	2	5,676	0.0004	0.9947
Oct.	20	3	5,679	0.0005	0.9953
Oct.	21	4	5,683	0.0007	0.9960
Oct.	22	6	5,689	0.0011	0.9970
Oct.	23	3	5,692	0.0005	0.9975
Oct.	24	11	5,703	0.0019	0.9995
Oct.	25	0	5,703	0.0000	0.9995
Oct.	26	0	5,703	0.0000	0.9995
Oct.	27	2	5,705	0.0004	0.9998
Oct.	28	1	5,706	0.0002	1.0000
Oct.	29	0	5,706	0.0000	1.0000

Mean Day of Migration = Sept. 6 Variance = 106.0 Days squared

Appendix F.57. Age composition of sockeye salmon in the Nahlin River escapement by sex and age class, 1990.

	Brood Year and Age Class				
	1986		1985	1984	
	0.3	1.2	1.3	2.3	Total
Escapement Dates: (June 17 - August 4)					
Sample Dates: (July 1 - 5, 8 - 9, 14 - 27, Aug. 2)					
Male					
Sample Size		3	211	9	223
Percent		0.7	47.6	2.0	50.3
Std. Error		0.4	2.2	0.6	2.2
Number		17	1,193	50	1,260
Female					
Sample Size	1	2	207	10	220
Percent	0.2	0.5	46.7	2.3	49.7
Std. Error	0.2	0.3	2.2	0.6	2.2
Number	6	11	1,169	57	1,243
All Fish					
Sample Size	1	5	420	19	445
Percent	0.2	1.1	94.4	4.3	100.0
Std. Error	0.2	0.5	1.0	0.9	
Number	6	28	2,374	107	2,515

Appendix F.58. Length composition of sockeye salmon in the Nahlin River escapement by sex and age class, 1990.

		Brood Year and Age Class				
		1986		1985	1984	
		0.3	1.2	1.3	2.3	Total
Escapement Dates: (June 17 - August 4)						
Sample Dates: (July 1 - 5, 8 - 9, 14 - 27, Aug. 2)						
Male	Avg. Length		428	584	590	582
	Std. Error		18.3	1.4	7.7	1.9
	Sample Size		3	210	9	222
Female	Avg. Length	545	495	557	560	557
	Std. Error		25.0	1.5	7.8	1.5
	Sample Size	1	2	206	10	219
All Fish	Avg. Length	545	455	571	574	570
	Std. Error		20.7	1.2	6.4	1.3
	Sample Size	1	5	418	19	443

Appendix F.59. Daily sockeye salmon counts and associated statistics from the Nahlin River weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June	19	0	0	0.0000	0.0000
June	20	0	0	0.0000	0.0000
June	21	0	0	0.0000	0.0000
June	22	0	0	0.0000	0.0000
June	23	0	0	0.0000	0.0000
June	24	0	0	0.0000	0.0000
June	25	0	0	0.0000	0.0000
June	26	0	0	0.0000	0.0000
June	27	0	0	0.0000	0.0000
June	28	0	0	0.0000	0.0000
June	29	3	3	0.0012	0.0012
June	30	2	5	0.0008	0.0020
July	1	23	28	0.0091	0.0111
July	2	92	120	0.0366	0.0477
July	3	200	320	0.0795	0.1272
July	4	417	737	0.1658	0.2930
July	5	207	944	0.0823	0.3753
July	6	139	1,083	0.0553	0.4306
July	7	90	1,173	0.0358	0.4664
July	8	74	1,247	0.0294	0.4958
July	9	61	1,308	0.0243	0.5201
July	10	84	1,392	0.0334	0.5535
July	11	27	1,419	0.0107	0.5642
July	12	20	1,439	0.0080	0.5722
July	13	21	1,460	0.0083	0.5805
July	14	15	1,475	0.0060	0.5865
July	15	20	1,495	0.0080	0.5944
July	16	19	1,514	0.0076	0.6020
July	17	37	1,551	0.0147	0.6167
July	18	44	1,595	0.0175	0.6342
July	19	30	1,625	0.0119	0.6461
July	20	57	1,682	0.0227	0.6688
July	21	63	1,745	0.0250	0.6938
July	22	82	1,827	0.0326	0.7264
July	23	133	1,960	0.0529	0.7793
July	24	141	2,101	0.0561	0.8354
July	25	89	2,190	0.0354	0.8708
July	26	78	2,268	0.0310	0.9018
July	27	66	2,334	0.0262	0.9280
July	28	56	2,390	0.0223	0.9503
July	29	44	2,434	0.0175	0.9678
July	30	33	2,467	0.0131	0.9809
July	31	29	2,496	0.0115	0.9924
Aug.	1	8	2,504	0.0032	0.9956
Aug.	2	10	2,514	0.0040	0.9996
Aug.	3	1	2,515	0.0004	1.0000
Aug.	4	0	2,515	0.0000	1.0000

Mean Day of Migration = July 13 Variance = 92.3 Days squared

Appendix F.60. Daily sockeye salmon counts and associated statistics from Nakina River weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	28	0	0	0.0000	0.0000
July	29	0	0	0.0000	0.0000
July	30	0	0	0.0000	0.0000
July	31	0	0	0.0000	0.0000
Aug.	1	0	0	0.0000	0.0000
Aug.	2	0	0	0.0000	0.0000
Aug.	3	2	2	0.0026	0.0026
Aug.	4	2	4	0.0026	0.0051
Aug.	5	1	5	0.0013	0.0064
Aug.	6	9	14	0.0116	0.0180
Aug.	7	1	15	0.0013	0.0193
Aug.	8	8	23	0.0103	0.0296
Aug.	9	8	31	0.0103	0.0398
Aug.	10	8	39	0.0103	0.0501
Aug.	11	13	52	0.0167	0.0668
Aug.	12	59	111	0.0758	0.1427
Aug.	13	86	197	0.1105	0.2532
Aug.	14	83	280	0.1067	0.3599
Aug.	15	43	323	0.0553	0.4152
Aug.	16	63	386	0.0810	0.4961
Aug.	17	53	439	0.0681	0.5643
Aug.	18	62	501	0.0797	0.6440
Aug.	19	93	594	0.1195	0.7635
Aug.	20	75	669	0.0964	0.8599
Aug.	21	69	738	0.0887	0.9486
Aug.	22	0	738	0.0000	0.9486
Aug.	23	27	765	0.0347	0.9833
Aug.	24	0	765	0.0000	0.9833
Aug.	25	13	778	0.0167	1.0000
Aug.	26	0	778	0.0000	1.0000

Mean Day of Migration = Aug. 16 Variance = 15.0 Days squared

Appendix F.61. Age composition of sockeye salmon in the Speel Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class								
	1987	1986			1985		1984		
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Escapement Dates: (July 15 - 28)									
Sample Dates: (July 15 - 28)									
Male									
Sample Size	1		139	1	63	4		1	209
Percent	0.3		46.5	0.3	21.1	1.3		0.3	69.9
Std. Error	0.3		2.4	0.3	2.0	0.6		0.3	2.2
Number	3		482	3	220	14		3	725
Female									
Sample Size			4		82			4	90
Percent			1.3		27.4			1.3	30.1
Std. Error			0.6		2.2			0.6	2.2
Number			14		284			14	312
All Fish									
Sample Size	1		143	1	145	4		5	299
Percent	0.3		47.8	0.3	48.5	1.3		1.7	100.0
Std. Error	0.3		2.4	0.3	2.4	0.6		0.6	
Number	3		496	3	504	14		17	1,037
Escapement Dates: (July 29 - August 4)									
Sample Dates: (July 29 - August 4)									
Male									
Sample Size	1		256		88	4			349
Percent	0.2		44.0		15.1	0.7			60.0
Std. Error	0.2		2.0		1.4	0.3			1.9
Number	12		3,157		1,086	49			4,304
Female									
Sample Size			16		202		1	14	233
Percent			2.7		34.7		0.2	2.4	40.0
Std. Error			0.7		1.9		0.2	0.6	1.9
Number			198		2,491		12	173	2,874
All Fish									
Sample Size	1		272		290	4	1	14	582
Percent	0.2		46.7		49.8	0.7	0.2	2.4	100.0
Std. Error	0.2		2.0		2.0	0.3	0.2	0.6	
Number	12		3,355		3,577	49	12	173	7,178
Escapement Dates: (August 5 - 11)									
Sample Dates: (August 5 - 11)									
Male									
Sample Size	1		107		37	3		1	149
Percent	0.4		41.3		14.3	1.2		0.4	57.5
Std. Error	0.4		2.9		2.1	0.6		0.4	2.9
Number	12		1,237		427	35		12	1,723
Female									
Sample Size		1	13		90	2	1	3	110
Percent		0.4	5.0		34.7	0.8	0.4	1.2	42.5
Std. Error		0.4	1.3		2.8	0.5	0.4	0.6	2.9
Number		12	150		1,041	23	12	34	1,272
All Fish									
Sample Size	1	1	120		127	5	1	4	259
Percent	0.4	0.4	46.3		49.0	1.9	0.4	1.5	100.0
Std. Error	0.4	0.4	3.0		3.0	0.8	0.4	0.7	
Number	12	12	1,387		1,468	58	12	46	2,995
Escapement Dates: (August 12 - 18)									
Sample Dates : (August 12 - 18)									
Male									
Sample Size	4		96		41	5		2	148
Percent	1.2		29.0		12.4	1.5		0.6	44.7
Std. Error	0.6		2.4		1.7	0.6		0.4	2.6
Number	37		878		374	46		18	1,353
Female									
Sample Size			30		142	2	1	8	183
Percent			9.1		42.9	0.6	0.3	2.4	55.3
Std. Error			1.5		2.6	0.4	0.3	0.8	2.6
Number			274		1,300	18	9	73	1,674
All Fish									
Sample Size	4		126		183	7	1	10	331
Percent	1.2		38.1		55.3	2.1	0.3	3.0	100.0
Std. Error	0.6		2.5		2.6	0.7	0.3	0.9	
Number	37		1,152		1,674	64	9	91	3,027

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	Brood Year and Age Class								
	1987	1986			1985		1984		
	0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Escapement Dates: (August 19 - 25)									
Sample Dates: (August 19 - 25)									
Male									
Sample Size	2		77		23	1		1	104
Percent	0.8		31.8		9.5	0.4		0.4	43.0
Std. Error	0.6		2.9		1.8	0.4		0.4	3.1
Number	24		918		273	12		12	1,239
Female									
Sample Size			33		94	3		8	138
Percent			13.6		38.8	1.2		3.3	57.0
Std. Error			2.1		3.0	0.7		1.1	3.1
Number			393		1,121	36		95	1,645
All Fish									
Sample Size	2		110		117	4		9	242
Percent	0.8		45.5		48.3	1.7		3.7	100.0
Std. Error	0.6		3.1		3.1	0.8		1.2	
Number	24		1,311		1,394	48		107	2,884
Escapement Dates: (August 26 - Sept. 1)									
Sample Dates: (August 26 - Sept. 1)									
Male									
Sample Size			51		18	1			70
Percent			34.2		12.1	0.7			47.0
Std. Error			3.6		2.5	0.6			3.8
Number			333		118	7			458
Female									
Sample Size			22		55	1		1	79
Percent			14.8		36.9	0.7		0.7	53.0
Std. Error			2.7		3.7	0.6		0.6	3.8
Number			144		359	6		7	516
All Fish									
Sample Size			73		73	2		1	149
Percent			49.0		49.0	1.3		0.7	100.0
Std. Error			3.8		3.8	0.9		0.6	
Number			477		477	13		7	974
Combined Periods (Percentages are weighted by period escapements)									
Male									
Sample Size	9		726	1	270	18		5	1,029
Percent	0.5		38.7	<0.1	13.8	0.9		0.3	54.2
Std. Error	0.2		1.1	<0.1	0.8	0.2		0.1	1.1
Number	88		7,005	3	2,498	163		45	9,803
Female									
Sample Size		1	118		665	8	3	38	833
Percent		0.1	6.5		36.4	0.5	0.2	2.2	45.8
Std. Error		0.1	0.6		1.1	0.2	0.1	0.3	1.1
Number		12	1,173		6,596	83	33	396	8,292
All Fish									
Sample Size	9	1	844	1	935	26	3	43	1,862
Percent	0.5	0.1	45.2	<0.1	50.3	1.4	0.2	2.4	100.0
Std. Error	0.2	0.1	1.2	<0.1	1.2	0.3	0.1	0.4	
Number	88	12	8,178	3	9,094	246	33	441	18,095

Appendix F.62. Length composition of sockeye salmon in the Speel Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class								
		1987	1986			1985		1984		
		0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Escapement Dates: (July 15 - 28) Sample Dates: (July 15 -28)										
Male	Avg. Length	450		450	335	594	461		600	494
	Std. Error			2.2		3.8	16.3			5.0
	Sample Size	1		139	1	63	4		1	209
Female	Avg. Length			528		569			570	568
	Std. Error			7.6		2.4			6.8	2.4
	Sample Size			4		82			4	90
All Fish	Avg. Length	450		452	335	580	461		576	516
	Std. Error			2.4		2.3	16.3		8.0	4.1
	Sample Size	1		143	1	145	4		5	299
Escapement Dates: (July 29 - August 4) Sample Dates: (July 29 - August 4)										
Male	Avg. Length	435		445		587	458			481
	Std. Error			1.7		3.9	12.7			3.7
	Sample Size	1		256		88	4			349
Female	Avg. Length			505		569		585	564	564
	Std. Error			8.4		1.6			5.5	1.8
	Sample Size			16		202		1	14	233
All Fish	Avg. Length	435		448		574	458	585	564	514
	Std. Error			1.9		1.7	12.7		5.5	2.9
	Sample Size	1		272		290	4	1	14	582
Escapement Dates: (August 5 - 11) Sample Dates: (August 5 - 11)										
Male	Avg. Length	435		448		581	475		580	482
	Std. Error			2.5		8.1	34.0			5.5
	Sample Size	1		107		37	3		1	149
Female	Avg. Length		600	483		576	503	610	607	565
	Std. Error			9.2		2.3	22.5		7.3	3.8
	Sample Size		1	13		90	2	1	3	110
All Fish	Avg. Length	435	600	451		577	486	610	600	517
	Std. Error			2.6		2.9	21.1		8.4	4.4
	Sample Size	1	1	120		127	5	1	4	259
Escapement Dates: (August 12 - 18) Sample Dates: (August 12 - 18)										
Male	Avg. Length	423		442		570	450		598	479
	Std. Error	10.1		2.5		7.5	17.4		7.5	5.6
	Sample Size	4		96		41	5		2	148
Female	Avg. Length			491		577	538	565	576	562
	Std. Error			4.5		1.8	12.5		7.7	2.8
	Sample Size			30		142	2	1	8	183
All Fish	Avg. Length	423		454		576	475	565	581	525
	Std. Error	10.1		2.9		2.2	20.3		6.8	3.7
	Sample Size	4		126		183	7	1	10	331
Escapement Dates: (August 19 - 25) Sample Dates: (August 19 - 25)										
Male	Avg. Length	430		461		591	440		610	490
	Std. Error	5.0		4.9		7.4				6.8
	Sample Size	2		77		23	1		1	104
Female	Avg. Length			495		574	520		585	554
	Std. Error			5.5		2.7	32.5		9.7	3.8
	Sample Size			33		93	3		8	137
All Fish	Avg. Length	430		471		577	500		588	527
	Std. Error	5.0		4.1		2.7	30.5		9.0	4.2
	Sample Size	2		110		116	4		9	241

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		Brood Year and Age Class								
		1987	1986			1985		1984		
		0.2	0.3	1.2	2.1	1.3	2.2	1.4	2.3	Total
Escapement Dates: (August 26 - Sept. 1) Sample Dates: (August 26 - Sept. 1)										
Male	Avg. Length			440		600	440			481
	Std. Error			3.6		6.4				9.0
	Sample Size			51		18	1			70
Female	Avg. Length			487		572	485		535	547
	Std. Error			6.3		2.8				5.1
	Sample Size			22		55	1		1	79
All Fish	Avg. Length			454		579	463		535	516
	Std. Error			4.0		3.0	22.5			5.7
	Sample Size			73		73	2		1	149
Combined Periods (Lengths weighted by period escapements)										
Male	Avg. Length	433		447	335	585	456		596	483
	Std. Error	5.2		1.1		2.4	8.1		5.4	2.2
	Sample Size	9		726	1	270	18		5	1029
Female	Avg. Length		600	498		572	517	586	575	562
	Std. Error			2.8		0.9	13.3	13.0	4.0	1.3
	Sample Size		1	118		664	8	3	38	832
All Fish	Avg. Length	433	600	454	335	576	472	586	576	519
	Std. Error	5.2		1.2		1.0	8.7	13.0	3.7	1.6
	Sample Size	9	1	844	1	934	26	3	43	1861

Appendix F.63. Daily sockeye salmon counts and associated from Speel Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	13	0	0	0.0000	0.0000
July	14	0	0	0.0000	0.0000
July	15	3	3	0.0002	0.0002
July	16	10	13	0.0006	0.0007
July	17	9	22	0.0005	0.0012
July	18	24	46	0.0013	0.0025
July	19	40	86	0.0022	0.0048
July	20	19	105	0.0011	0.0058
July	21	15	120	0.0008	0.0066
July	22	21	141	0.0012	0.0078
July	23	36	177	0.0020	0.0098
July	24	46	223	0.0025	0.0123
July	25	55	278	0.0030	0.0154
July	26	39	317	0.0022	0.0175
July	27	580	897	0.0321	0.0496
July	28	140	1,037	0.0077	0.0573
July	29	524	1,561	0.0290	0.0863
July	30	3,331	4,892	0.1841	0.2704
July	31	94	4,986	0.0052	0.2755
Aug.	1	93	5,079	0.0051	0.2807
Aug.	2	123	5,202	0.0068	0.2875
Aug.	3	101	5,303	0.0056	0.2931
Aug.	4	2,912	8,215	0.1609	0.4540
Aug.	5	37	8,252	0.0020	0.4560
Aug.	6	65	8,317	0.0036	0.4596
Aug.	7	53	8,370	0.0029	0.4626
Aug.	8	56	8,426	0.0031	0.4657
Aug.	9	2,239	10,665	0.1237	0.5894
Aug.	10	23	10,688	0.0013	0.5907
Aug.	11	522	11,210	0.0288	0.6195
Aug.	12	305	11,515	0.0169	0.6364
Aug.	13	56	11,571	0.0031	0.6395
Aug.	14	1,042	12,613	0.0576	0.6970
Aug.	15	415	13,028	0.0229	0.7200
Aug.	16	825	13,853	0.0456	0.7656
Aug.	17	176	14,029	0.0097	0.7753
Aug.	18	208	14,237	0.0115	0.7868
Aug.	19	818	15,055	0.0452	0.8320
Aug.	20	677	15,732	0.0374	0.8694
Aug.	21	93	15,825	0.0051	0.8746
Aug.	22	170	15,995	0.0094	0.8839
Aug.	23	476	16,471	0.0263	0.9103
Aug.	24	488	16,959	0.0270	0.9372
Aug.	25	162	17,121	0.0090	0.9462
Aug.	26	139	17,260	0.0077	0.9539
Aug.	27	91	17,351	0.0050	0.9589
Aug.	28	713	18,064	0.0394	0.9983
Aug.	29	31	18,095	0.0017	1.0000

Mean Day of Migration = Aug. 9 Variance = 89.6 Days squared

Appendix F.64. Age composition of sockeye salmon in the Crescent Lake escapement by sex, age class, and fishing period, 1990.

	Brood Year and Age Class									
	1987	1986		1985			1984		1983	
	0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Weeks 29 - 30 (July 15 - July 28)										
Male										
Sample Size		4	12		52	1	2	10		81
Percent		1.6	4.8		20.6	0.4	0.8	4.0		32.1
Std. Error		0.5	0.9		1.8	0.3	0.4	0.9		2.0
Number		8	23		101	2	4	19		157
Female										
Sample Size		6			146	1	3	14	1	171
Percent		2.4			57.9	0.4	1.2	5.6	0.4	67.9
Std. Error		0.7			2.2	0.3	0.5	1.0	0.3	2.0
Number		12			282	2	6	27	2	331
All Fish										
Sample Size		10	12		198	2	5	24	1	252
Percent		4.0	4.8		78.6	0.8	2.0	9.5	0.4	100.0
Std. Error		0.9	0.9		1.8	0.4	0.6	1.3	0.3	
Number		20	23		383	4	10	46	2	488
Statistical Weeks 31 - 32 (July 29 - August 11)										
Male										
Sample Size	1		28		48	2	2	6		87
Percent	0.4		10.1		17.4	0.7	0.7	2.2		31.5
Std. Error	0.2		1.2		1.5	0.3	0.3	0.6		1.8
Number	2		48		84	3	3	10		150
Female										
Sample Size		3	4		151		4	27		189
Percent		1.1	1.4		54.7		1.4	9.8		68.5
Std. Error		0.4	0.5		1.9		0.5	1.2		1.8
Number		5	7		260		7	47		326
All Fish										
Sample Size	1	3	32		199	2	6	33		276
Percent	0.4	1.1	11.6		72.1	0.7	2.2	12.0		100.0
Std. Error	0.2	0.4	1.3		1.8	0.3	0.6	1.3		
Number	2	5	55		344	3	10	57		476
Statistical Weeks 33 - 35 (August 12 - Sept. 1)										
Male										
Sample Size	1		22		33	1		3		60
Percent	0.5		10.7		16.1	0.5		1.5		29.3
Std. Error	0.3		1.2		1.4	0.3		0.5		1.8
Number	1		32		48	1		5		87
Female										
Sample Size	1	7	3	1	101		3	29		145
Percent	0.5	3.4	1.5	0.5	49.3		1.5	14.1		70.7
Std. Error	0.3	0.7	0.5	0.3	2.0		0.5	1.4		1.8
Number	2	10	4	1	148		4	42		211
All Fish										
Sample Size	2	7	25	1	134	1	3	32		205
Percent	1.0	3.4	12.2	0.5	65.4	0.5	1.5	15.6		100.0
Std. Error	0.4	0.7	1.3	0.3	1.9	0.3	0.5	1.4		
Number	3	10	36	1	196	1	4	47		298
Combined Periods (Percentages are weighted by period escapements)										
Male										
Sample Size	2	4	62		133	4	4	19		228
Percent	0.3	0.6	8.2		18.3	0.5	0.6	2.7		31.2
Std. Error	0.1	0.2	0.6		0.9	0.2	0.2	0.4		1.1
Number	3	8	103		233	6	7	34		394
Female										
Sample Size	1	16	7	1	398	1	10	70	1	505
Percent	0.1	2.1	0.9	0.1	54.7	0.2	1.4	9.2	0.2	68.8
Std. Error	0.1	0.3	0.2	0.1	1.2	0.1	0.3	0.7	0.1	1.1
Number	2	27	11	1	690	2	17	116	2	868
All Fish										
Sample Size	3	20	69	1	531	5	14	89	1	733
Percent	0.4	2.8	9.1	0.1	73.0	0.7	1.9	11.9	0.2	100.0
Std. Error	0.1	0.4	0.7	0.1	1.1	0.2	0.3	0.8	0.1	
Number	5	35	114	1	923	8	24	150	2	1,262

Appendix F.65. Length composition of sockeye salmon in the Crescent Lake escapement by sex, age class, and fishing period, 1990.

		Brood Year and Age Class									
		1987	1986		1985			1984		1983	
		0.2	0.3	1.2	0.4	1.3	2.2	1.4	2.3	2.4	Total
Statistical Weeks 29 - 30 (July 15 - 28)											
Male	Avg. Length		610	449		587	470	653	578		567
	Std. Error		5.4	10.0		4.2		32.5	6.0		6.6
	Sample Size		4	12		52	1	2	10		81
Female	Avg. Length		571			567	510	600	563	575	567
	Std. Error		5.4			1.9			6.6		1.8
	Sample Size		6			146	1	3	14	1	171
All Fish	Avg. Length		587	449		572	490	621	569	575	567
	Std. Error		7.4	10.0		1.9	20.0	16.5	4.7		2.5
	Sample Size		10	12		198	2	5	24	1	252
Statistical Weeks 31 - 32 (July 29 - August 11)											
Male	Avg. Length	460		435		598	423	608	584		539
	Std. Error			5.6		3.1	12.5	37.5	8.3		8.8
	Sample Size	1		28		48	2	2	6		87
Female	Avg. Length		560	515		560		619	567		561
	Std. Error		17.6	12.4		1.9		11.3	3.1		1.8
	Sample Size		3	4		151		4	27		189
All Fish	Avg. Length	460	560	445		569	423	615	570		554
	Std. Error		17.6	6.9		2.0	12.5	12.2	3.1		3.1
	Sample Size	1	3	32		199	2	6	33		276
Statistical Weeks 33 - 35 (August 12 - Sept. 1)											
Male	Avg. Length	440		439		586	445		608		529
	Std. Error			8.0		5.1			15.9		10.4
	Sample Size	1		22		33	1		3		60
Female	Avg. Length	435	554	475	615	564		593	559		561
	Std. Error		10.3	13.2		2.3		13.0	4.7		2.4
	Sample Size	1	7	3	1	101		3	29		145
All Fish	Avg. Length	438	554	443	615	570	445	593	564		552
	Std. Error	2.5	10.3	7.5		2.3		13.0	5.1		3.6
	Sample Size	2	7	25	1	134	1	3	32		205
Combined Periods (Lengths weighted by period catches)											
Male	Avg. Length	452	610	441		591	446	630	587		548
	Std. Error	10.0	5.4	4.2		2.4	12.4	24.1	5.1		5.0
	Sample Size	2	4	62		133	4	4	19		228
Female	Avg. Length	435	563	500	615	563	510	605	563	575	563
	Std. Error		5.8	11.6		1.2		6.5	2.6		1.2
	Sample Size	1	16	7	1	398	1	10	70	1	505
All Fish	Avg. Length	451	569	446	615	570	454	612	568	575	558
	Std. Error	7.6	6.5	4.5		1.2	17.0	8.3	2.5		1.8
	Sample Size	3	20	69	1	531	5	14	89	1	733

Appendix F.66. Daily sockeye salmon counts and associated statistics from Crescent Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
July	13	0	0	0.0000	0.0000
July	14	0	0	0.0000	0.0000
July	15	2	2	0.0016	0.0016
July	16	0	2	0.0000	0.0016
July	17	0	2	0.0000	0.0016
July	18	0	2	0.0000	0.0016
July	19	0	2	0.0000	0.0016
July	20	23	25	0.0182	0.0198
July	21	143	168	0.1133	0.1331
July	22	64	232	0.0507	0.1838
July	23	85	317	0.0674	0.2512
July	24	45	362	0.0357	0.2868
July	25	52	414	0.0412	0.3281
July	26	49	463	0.0388	0.3669
July	27	17	480	0.0135	0.3803
July	28	8	488	0.0063	0.3867
July	29	32	520	0.0254	0.4120
July	30	97	617	0.0769	0.4889
July	31	11	628	0.0087	0.4976
Aug.	1	14	642	0.0111	0.5087
Aug.	2	5	647	0.0040	0.5127
Aug.	3	9	656	0.0071	0.5198
Aug.	4	144	800	0.1141	0.6339
Aug.	5	56	856	0.0444	0.6783
Aug.	6	15	871	0.0119	0.6902
Aug.	7	7	878	0.0055	0.6957
Aug.	8	38	916	0.0301	0.7258
Aug.	9	48	964	0.0380	0.7639
Aug.	10	0	964	0.0000	0.7639
Aug.	11	0	964	0.0000	0.7639
Aug.	12	0	964	0.0000	0.7639
Aug.	13	0	964	0.0000	0.7639
Aug.	14	0	964	0.0000	0.7639
Aug.	15	2	966	0.0016	0.7655
Aug.	16	15	981	0.0119	0.7773
Aug.	17	36	1,017	0.0285	0.8059
Aug.	18	68	1,085	0.0539	0.8597
Aug.	19	7	1,092	0.0055	0.8653
Aug.	20	0	1,092	0.0000	0.8653
Aug.	21	0	1,092	0.0000	0.8653
Aug.	22	3	1,095	0.0024	0.8677
Aug.	23	36	1,131	0.0285	0.8962
Aug.	24	37	1,168	0.0293	0.9255
Aug.	25	39	1,207	0.0309	0.9564
Aug.	26	27	1,234	0.0214	0.9778
Aug.	27	19	1,253	0.0151	0.9929
Aug.	28	9	1,262	0.0071	1.0000

Mean Day of Migration = Aug. 3 Variance = 139.5 Days squared

Appendix F.67. Age composition of sockeye salmon in the Auke Lake escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986			1985		1984	
	0.2	0.3	1.2	2.1	1.3	2.2	2.3	Total
Escapement Dates: (June 26 - Sept. 11)								
Sample Dates: (July 9 - August 7)								
Male								
Sample Size	4		40	11	16	3	116	190
Percent	1.1		11.1	3.1	4.5	0.8	32.3	52.9
Std. Error	0.5		1.6	0.9	1.0	0.5	2.3	2.5
Number	39		392	108	157	29	1,136	1,861
Female								
Sample Size		2	18		16	9	124	169
Percent		0.6	5.0		4.5	2.5	34.5	47.1
Std. Error		0.4	1.1		1.0	0.8	2.4	2.5
Number		20	176		157	88	1,215	1,656
All Fish								
Sample Size	4	2	58	11	32	12	241	360
Percent	1.1	0.6	16.1	3.1	8.9	3.3	66.9	100.0
Std. Error	0.5	0.4	1.8	0.9	1.4	0.9	2.4	
Number	39	20	568	108	314	118	2,361	3,527

Appendix F.68. Length composition of sockeye salmon in the Auke Lake escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986			1985		1984	
		0.2	0.3	1.2	2.1	1.3	2.2	2.3	Total
Escapement Dates: (June 26 - Sept. 11)									
Sample Dates: (July 9 - August 7)									
Male	Avg. Length	455		481	337	550	478	544	516
	Std. Error	16.2		5.6	4.9	5.9	9.3	2.4	4.3
	Sample Size	4		40	11	16	3	116	190
Female	Avg. Length		550	476		534	487	531	523
	Std. Error		10.0	6.2		5.9	6.7	1.8	2.2
	Sample Size		2	18		16	9	124	169
All Fish	Avg. Length	455	550	479	337	542	485	537	520
	Std. Error	16.2	10.0	4.3	4.9	4.3	5.5	1.5	2.5
	Sample Size	4	2	58	11	32	12	241	360

Appendix F.69. Daily sockeye salmon counts and associated statistics from Auke Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June	26	1	1	0.0003	0.0003
June	27	0	1	0.0000	0.0003
June	28	0	1	0.0000	0.0003
June	29	0	1	0.0000	0.0003
June	30	0	1	0.0000	0.0003
July	1	6	7	0.0017	0.0020
July	2	13	20	0.0037	0.0057
July	3	18	38	0.0051	0.0108
July	4	1	39	0.0003	0.0111
July	5	0	39	0.0000	0.0111
July	6	0	39	0.0000	0.0111
July	7	0	39	0.0000	0.0111
July	8	0	39	0.0000	0.0111
July	9	812	851	0.2302	0.2413
July	10	1113	1964	0.3156	0.5568
July	11	333	2297	0.0944	0.6513
July	12	113	2410	0.0320	0.6833
July	13	170	2580	0.0482	0.7315
July	14	62	2642	0.0176	0.7491
July	15	41	2683	0.0116	0.7607
July	16	59	2742	0.0167	0.7774
July	17	31	2773	0.0088	0.7862
July	18	11	2784	0.0031	0.7893
July	19	0	2784	0.0000	0.7893
July	20	7	2791	0.0020	0.7913
July	21	0	2791	0.0000	0.7913
July	22	0	2791	0.0000	0.7913
July	23	0	2791	0.0000	0.7913
July	24	0	2791	0.0000	0.7913
July	25	0	2791	0.0000	0.7913
July	26	0	2791	0.0000	0.7913
July	27	0	2791	0.0000	0.7913
July	28	0	2791	0.0000	0.7913
July	29	0	2791	0.0000	0.7913
July	30	0	2791	0.0000	0.7913
July	31	93	2884	0.0264	0.8177
Aug.	1	79	2963	0.0224	0.8401
Aug.	2	110	3073	0.0312	0.8713
Aug.	3	51	3124	0.0145	0.8857
Aug.	4	144	3268	0.0408	0.9266
Aug.	5	65	3333	0.0184	0.9450
Aug.	6	19	3352	0.0054	0.9504
Aug.	7	14	3366	0.0040	0.9544
Aug.	8	1	3367	0.0003	0.9546
Aug.	9	4	3371	0.0011	0.9558
Aug.	10	25	3396	0.0071	0.9629
Aug.	11	8	3404	0.0023	0.9651
Aug.	12	5	3409	0.0014	0.9665
Aug.	13	5	3414	0.0014	0.9680
Aug.	14	2	3416	0.0006	0.9685
Aug.	15	2	3418	0.0006	0.9691
Aug.	16	3	3421	0.0009	0.9699
Aug.	17	1	3422	0.0003	0.9702
Aug.	18	1	3423	0.0003	0.9705
Aug.	19	0	3423	0.0000	0.9705
Aug.	20	12	3435	0.0034	0.9739

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Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Aug.	21	17	3452	0.0048	0.9787
Aug.	22	6	3458	0.0017	0.9804
Aug.	23	1	3459	0.0003	0.9807
Aug.	24	4	3463	0.0011	0.9819
Aug.	25	4	3467	0.0011	0.9830
Aug.	26	1	3468	0.0003	0.9833
Aug.	27	1	3469	0.0003	0.9836
Aug.	28	2	3471	0.0006	0.9841
Aug.	29	5	3476	0.0014	0.9855
Aug.	30	2	3478	0.0006	0.9861
Aug.	31	1	3479	0.0003	0.9864
Sept.	1	0	3479	0.0000	0.9864
Sept.	2	0	3479	0.0000	0.9864
Sept.	3	4	3483	0.0011	0.9875
Sept.	4	29	3512	0.0082	0.9957
Sept.	5	7	3519	0.0020	0.9977
Sept.	6	5	3524	0.0014	0.9991
Sept.	7	0	3524	0.0000	0.9991
Sept.	8	0	3524	0.0000	0.9991
Sept.	9	1	3525	0.0003	0.9994
Sept.	10	1	3526	0.0003	0.9997
Sept.	11	1	3527	0.0003	1.0000

Mean Day of Migration = July 16 Variance = 149.4 Days squared

Appendix F.70. Age composition of sockeye salmon in the Steep Creek escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987	1986		1985		1984	1983	
	1.1	1.2	2.1	1.3	2.2	2.3	2.4	Total
Sample Dates: (August 20, 29)								
Male								
Sample Size	1	5	1	19	3			29
Percent	1.1	5.4	1.1	20.4	3.2			31.2
Std. Error	1.1	2.3	1.1	4.2	1.8			4.8
Female								
Sample Size		1		55		7	1	64
Percent		1.1		59.1		7.5	1.1	68.8
Std. Error		1.1		5.1		2.7	1.1	4.8
All Fish								
Sample Size	1	6	1	78	3	7	1	97
Percent	1.0	6.2	1.0	80.4	3.1	7.2	1.0	100.0
Std. Error	1.0	2.4	1.0	4.0	1.8	2.6	1.0	

Appendix F.71. Length composition of sockeye salmon in the Steep Creek escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987	1986		1985		1984	1983	
		1.1	1.2	2.1	1.3	2.2	2.3	2.4	Total
Sample Dates: (August 20, 29)									
Male	Avg. Length	395	508	390	580	502			544
	Std. Error		17.1		5.5	19.2			12.3
	Sample Size	1	4	1	16	3			25
Female	Avg. Length				549		544	590	549
	Std. Error				2.9		9.2		2.8
	Sample Size				55		7	1	63
All Fish	Avg. Length	395	508	390	555	502	544	590	547
	Std. Error		17.1		2.9	19.2	9.2		3.9
	Sample Size	1	4	1	74	3	7	1	91

Appendix F.72. Age composition of sockeye salmon in the Redoubt Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class									
	1987	1986			1985		1984			
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Escapement Dates: (June 20 - 30)										
Sample Dates: (June 24 - 30)										
Male										
Sample Size			5		22	26		19		72
Percent			2.2		9.6	11.4		8.3		31.6
Std. Error			0.9		1.8	1.9		1.6		2.8
Number			25		109	129		95		358
Female										
Sample Size			12		50	56		38		156
Percent			5.3		21.9	24.6		16.7		68.4
Std. Error			1.3		2.5	2.6		2.2		2.8
Number			60		249	278		189		776
All Fish										
Sample Size			17		72	82		57		228
Percent			7.5		31.6	36.0		25.0		100.0
Std. Error			1.6		2.8	2.8		2.6		
Number			85		358	407		284		1,134
Escapement Dates: (July 1 - 7)										
Sample Dates: (July 1 - 7)										
Male										
Sample Size			4		24	43	1	19		91
Percent			1.7		10.5	18.8	0.4	8.3		39.7
Std. Error			0.8		2.0	2.5	0.4	1.8		3.2
Number			89		534	958	22	423		2,026
Female										
Sample Size			9		24	65		39	1	138
Percent			3.9		10.5	28.4		17.0	0.4	60.3
Std. Error			1.3		2.0	2.9		2.4	0.4	3.2
Number			200		535	1,448		868	22	3,073
All Fish										
Sample Size			13		48	108	1	58	1	229
Percent			5.7		21.0	47.2	0.4	25.3	0.4	100.0
Std. Error			1.5		2.6	3.2	0.4	2.8	0.4	
Number			289		1,069	2,406	22	1,291	22	5,099
Escapement Dates: (July 8 - 14)										
Sample Dates: (July 8 - 14)										
Male										
Sample Size			4		16	64		23	2	109
Percent			1.7		6.7	26.9		9.7	0.8	45.8
Std. Error			0.8		1.6	2.8		1.9	0.6	3.2
Number			97		387	1,545		556	48	2,633
Female										
Sample Size	1		7		13	84		24		129
Percent	0.4		2.9		5.5	35.3		10.1		54.2
Std. Error	0.4		1.1		1.4	3.0		1.9		3.2
Number	24		169		314	2,030		580		3,117
All Fish										
Sample Size	1		11		29	148		47	2	238
Percent	0.4		4.6		12.2	62.2		19.7	0.8	100.0
Std. Error	0.4		1.3		2.1	3.1		2.5	0.6	
Number	24		266		701	3,575		1,136	48	5,750
Escapement Dates: (July 15 - 21)										
Sample Dates: (July 15 - 21)										
Male										
Sample Size			5		5	82		32		124
Percent			1.9		1.9	30.5		11.9		46.1
Std. Error			0.8		0.8	2.8		2.0		3.0
Number			242		241	3,964		1,547		5,994
Female										
Sample Size	2		15		11	90		27		145
Percent	0.7		5.6		4.1	33.5		10.0		53.9
Std. Error	0.5		1.4		1.2	2.9		1.8		3.0
Number	97		725		532	4,351		1,305		7,010
All Fish										
Sample Size	2		20		16	172		59		269
Percent	0.7		7.4		5.9	63.9		21.9		100.0
Std. Error	0.5		1.6		1.4	2.9		2.5		
Number	97		967		773	8,315		2,852		13,004

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	Brood Year and Age Class									
	1987	1986			1985		1984			
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Escapement Dates: (July 22 - 28)										
Sample Dates: (July 22 - 28)										
Male										
Sample Size			10		3	58		8		79
Percent			5.0		1.5	28.7		4.0		39.1
Std. Error			1.5		0.8	3.2		1.4		3.4
Number			889		267	5,156		711		7,023
Female										
Sample Size			14	1	4	82		22		123
Percent			6.9	0.5	2.0	40.6		10.9		60.9
Std. Error			1.8	0.5	1.0	3.4		2.2		3.4
Number			1,245	89	355	7,290		1,956		10,935
All Fish										
Sample Size			24	1	7	140		30		202
Percent			11.9	0.5	3.5	69.3		14.9		100.0
Std. Error			2.3	0.5	1.3	3.2		2.5		
Number			2,134	89	622	12,446		2,667		17,958
Escapement Dates: (July 29 - August 4)										
Sample Dates: (July 29 - August 4)										
Male										
Sample Size		1	3		7	72		12	1	96
Percent		0.4	1.2		2.8	28.6		4.8	0.4	38.1
Std. Error		0.4	0.7		1.0	2.8		1.3	0.4	3.0
Number		58	174		407	4,184		697	58	5,578
Female										
Sample Size	1		3	1	4	116		30	1	156
Percent	0.4		1.2	0.4	1.6	46.0		11.9	0.4	61.9
Std. Error	0.4		0.7	0.4	0.8	3.1		2.0	0.4	3.0
Number	58		175	58	232	6,740		1,744	58	9,065
All Fish										
Sample Size	1	1	6	1	11	188		42	2	252
Percent	0.4	0.4	2.4	0.4	4.4	74.6		16.7	0.8	100.0
Std. Error	0.4	0.4	1.0	0.4	1.3	2.7		2.3	0.6	
Number	58	58	349	58	639	10,924		2,441	116	14,643
Escapement Dates: (August 5 - 11)										
Sample Dates: (August 5 - 11)										
Male										
Sample Size	2		3		5	53		48		111
Percent	0.9		1.3		2.1	22.6		20.5		47.4
Std. Error	0.6		0.7		0.9	2.7		2.6		3.2
Number	65		97		162	1,717		1,555		3,596
Female										
Sample Size			2		5	72		43	1	123
Percent			0.9		2.1	30.8		18.4	0.4	52.6
Std. Error			0.6		0.9	3.0		2.5	0.4	3.2
Number			65		162	2,332		1,393	32	3,984
All Fish										
Sample Size	2		5		10	125		91	1	234
Percent	0.9		2.1		4.3	53.4		38.9	0.4	100.0
Std. Error	0.6		0.9		1.3	3.2		3.1	0.4	
Number	65		162		324	4,049		2,948	32	7,580
Escapement Dates: (August 12 - 25)										
Sample Dates: (August 12 - 25)										
Male										
Sample Size	4		8	1	9	113		94	1	230
Percent	0.8		1.7	0.2	1.9	23.8		19.8	0.2	48.5
Std. Error	0.4		0.6	0.2	0.6	1.9		1.8	0.2	2.2
Number	55		109	14	123	1,545		1,285	14	3,145
Female										
Sample Size			11		12	140	1	80		244
Percent			2.3		2.5	29.5	0.2	16.9		51.5
Std. Error			0.7		0.7	2.0	0.2	1.7		2.2
Number			150		164	1,915	14	1,094		3,337
All Fish										
Sample Size	4		19	1	21	253	1	174	1	474
Percent	0.8		4.0	0.2	4.4	53.4	0.2	36.7	0.2	100.0
Std. Error	0.4		0.9	0.2	0.9	2.2	0.2	2.1	0.2	
Number	55		259	14	287	3,460	14	2,379	14	6,482

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	Brood Year and Age Class									
	1987	1986			1985		1984			
	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Escapement Dates: (August 26 - Sept. 29)										
Sample Dates: (August 26 - Sept. 29)										
Male										
Sample Size	6		8		5	102		47	1	169
Percent	1.6		2.1		1.3	26.6		12.2	0.3	44.0
Std. Error	0.5		0.6		0.5	1.9		1.4	0.2	2.1
Number	19		25		16	324		150	3	537
Female										
Sample Size			7	1	7	147		51	2	215
Percent			1.8	0.3	1.8	38.3		13.3	0.5	56.0
Std. Error			0.6	0.2	0.6	2.1		1.4	0.3	2.1
Number			22	3	22	468		162	7	684
All Fish										
Sample Size	6		15	1	12	249		98	3	384
Percent	1.6		3.9	0.3	3.1	64.8		25.5	0.8	100.0
Std. Error	0.5		0.8	0.2	0.7	2.0		1.8	0.4	
Number	19		47	3	38	792		312	10	1,221
Combined Periods (Percentages are weighted by period escapements)										
Male										
Sample Size	12	1	50	1	96	613	1	302	5	1,081
Percent	0.2	0.1	2.4	<0.1	3.1	26.8	<0.1	9.6	0.2	42.4
Std. Error	0.1	0.1	0.4	<0.1	0.4	1.2	<0.1	0.7	0.1	1.3
Number	139	58	1,747	14	2,246	19,522	22	7,019	123	30,890
Female										
Sample Size	4		80	3	130	852	1	354	5	1,429
Percent	0.2		3.9	0.2	3.5	36.8	<0.1	12.7	0.2	57.6
Std. Error	0.1		0.5	0.1	0.4	1.3	<0.1	0.8	0.1	1.3
Number	179		2,811	150	2,565	26,852	14	9,291	119	41,981
All Fish										
Sample Size	16	1	130	4	226	1,465	2	656	10	2,510
Percent	0.4	0.1	6.3	0.2	6.6	63.6	<0.1	22.4	0.3	100.0
Std. Error	0.1	0.1	0.7	0.1	0.6	1.2	<0.1	1.0	0.1	
Number	318	58	4,558	164	4,811	46,374	36	16,310	242	72,871

Appendix F.73. Length composition of sockeye salmon in the Redoubt Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class									
		1987	1986			1985		1984			
		1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Escapement Dates: (June 17 - 30) Sample Dates: (June 24 - 30)											
Male	Avg. Length			508		587	510		570		549
	Std. Error			20.4		4.6	5.8		6.0		5.3
	Sample Size			5		22	26		19		72
Female	Avg. Length			501		554	496		547		527
	Std. Error			5.0		3.6	2.7		4.2		2.8
	Sample Size			12		50	56		38		156
All Fish	Avg. Length			503		564	500		554		534
	Std. Error			6.6		3.4	2.7		3.7		2.6
	Sample Size			17		72	82		57		228
Escapement Dates: (July 1 - 7) Smaple Dates: (July 1 - 7)											
Male	Avg. Length			506		593	508	610	577		546
	Std. Error			12.6		5.0	4.1		4.4		4.9
	Sample Size			4		24	43	1	19		91
Female	Avg. Length			493		559	493		545	520	520
	Std. Error			6.6		5.0	2.9		4.3		3.2
	Sample Size			9		24	65		39	1	138
All Fish	Avg. Length			497		576	499	610	556	520	530
	Std. Error			6.0		4.3	2.5		3.8		2.9
	Sample Size			13		48	108	1	58	1	229
Escapement Dates: (July 8 - 14) Sample Dates: (July 8 - 14)											
Male	Avg. Length			493		578	497		567	480	523
	Std. Error			7.8		4.8	3.2		4.9		4.1
	Sample Size			4		16	64		23	2	109
Female	Avg. Length	345		489		545	486		543		501
	Std. Error			5.9		8.5	2.6		4.9		3.3
	Sample Size	1		7		12	84		24		128
All Fish	Avg. Length	345		490		564	490		555	480	511
	Std. Error			4.5		5.4	2.0		3.8		2.7
	Sample Size	1		11		28	148		47	2	237
Escapement Dates: (July 15 - 21) Sample Dates: (July 15 - 21)											
Male	Avg. Length			484		568	501		558		518
	Std. Error			11.2		4.6	2.8		4.2		3.3
	Sample Size			5		5	82		32		124
Female	Avg. Length	350		480		539	478		535		492
	Std. Error			6.0		4.9	2.3		4.4		3.1
	Sample Size	2		15		11	90		27		145
All Fish	Avg. Length	350		481		548	489		547		504
	Std. Error			5.2		5.0	2.0		3.4		2.4
	Sample Size	2		20		16	172		59		269
Escapement Dates: (July 22 - 28) Sample Dates: (July 22 - 28)											
Male	Avg. Length			489		580	495		556		504
	Std. Error			9.3		27.5	3.1		2.6		3.8
	Sample Size			10		3	58		8		79
Female	Avg. Length			481	360	551	483		540		494
	Std. Error			6.6		10.1	2.3		5.2		3.1
	Sample Size			14	1	4	82		22		123
All Fish	Avg. Length			484	360	564	488		544		498
	Std. Error			5.4		13.1	1.9		4.1		2.4
	Sample Size			24	1	7	140		30		202
Escapement Dates: (July 29 - August 4) Sample Dates: (July 29 - August 4)											
Male	Avg. Length		560	525		563	491		565	520	508
	Std. Error			17.3		3.8	2.7		7.3		3.8
	Sample Size		1	3		7	72		12	1	96
Female	Avg. Length	375		477	410	533	481		536	500	492
	Std. Error			12.0		18.3	2.1		4.8		2.7
	Sample Size	1		3	1	4	116		30	1	156
All Fish	Avg. Length	375	560	501	410	552	485		544	510	498
	Std. Error			14.3		8.0	1.7		4.4	10.0	2.3
	Sample Size	1	1	6	1	11	188		42	2	252

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		Brood Year and Age Class									
		1987	1986			1985		1984			
		1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	Total
Escapement Dates: (August 5 - 11) Sample Dates: (August 5 - 11)											
Male	Avg. Length	393		497		579	503		563		530
	Std. Error	2.5		18.6		8.3	2.8		3.3		4.0
	Sample Size	2		3		5	53		48		111
Female	Avg. Length			488		542	480		541	460	504
	Std. Error			2.5		11.5	3.4		2.9		3.5
	Sample Size			2		5	72		43	1	123
All Fish	Avg. Length	393		493		561	490		552	460	516
	Std. Error	2.5		10.4		9.1	2.5		2.5		2.8
	Sample Size	2		5		10	125		91	1	234
Escapement Dates: (August 12 - 25) Sample Dates: (August 12 - 25)											
Male	Avg. Length	386		516	375	580	502		575	510	533
	Std. Error	3.8		10.3		8.4	2.5		2.5		3.2
	Sample Size	4		8	1	9	113		94	1	230
Female	Avg. Length			477		548	482	560	548		507
	Std. Error			6.9		9.5	1.8		1.9		2.4
	Sample Size			11		12	140	1	80		244
All Fish	Avg. Length	386		493	375	561	491	560	562	510	519
	Std. Error	3.8		7.3		7.3	1.6		1.9		2.1
	Sample Size	4		19	1	21	253	1	174	1	474
Escapement Dates: (August 26 - Sept. 29) Sample Dates: (August 26 - Sept. 12)											
Male	Avg. Length	379		488		567	494		560	530	510
	Std. Error	7.5		13.9		23.1	2.9		3.9		3.8
	Sample Size	6		8		5	102		47	1	169
Female	Avg. Length			479	485	539	473		542	460	492
	Std. Error			9.2		8.0	2.0		3.8	10.0	2.7
	Sample Size			7	1	7	147		51	2	215
All Fish	Avg. Length	379		484	485	551	481		551	483	500
	Std. Error	7.5		8.4		10.9	1.8		2.9	24.0	2.3
	Sample Size	6		15	1	12	249		98	3	384
Combined Periods (Lengths weighted by period escapements)											
Male	Avg. Length	389	560	500	375	575	498	610	563	510	518
	Std. Error	4.0		4.5		2.6	1.1		1.4	10.3	1.4
	Sample Size	12	1	50	1	96	613	1	302	5	1081
Female	Avg. Length	360		482	386	544	482	560	540	491	498
	Std. Error	6.8		2.5	36.3	2.3	0.8		1.2	13.0	1.0
	Sample Size	4		80	3	129	852	1	354	5	1428
All Fish	Avg. Length	369	560	490	384	559	489	582	549	497	507
	Std. Error	4.6		2.4	27.9	2.0	0.7	25.0	1.0	8.8	0.9
	Sample Size	16	1	130	4	225	1465	2	656	10	2509

Appendix F.74. Daily sockeye salmon counts and associated statistics from Redoubt Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June	20	15	15	0.0002	0.0002
June	21	65	80	0.0009	0.0011
June	22	22	102	0.0003	0.0014
June	23	210	312	0.0029	0.0043
June	24	28	340	0.0004	0.0047
June	25	32	372	0.0004	0.0051
June	26	147	519	0.0020	0.0071
June	27	85	604	0.0012	0.0083
June	28	109	713	0.0015	0.0098
June	29	219	932	0.0030	0.0128
June	30	202	1,134	0.0028	0.0156
July	1	680	1,814	0.0093	0.0249
July	2	826	2,640	0.0113	0.0362
July	3	341	2,981	0.0047	0.0409
July	4	614	3,595	0.0084	0.0493
July	5	1,026	4,621	0.0141	0.0634
July	6	691	5,312	0.0095	0.0729
July	7	921	6,233	0.0126	0.0855
July	8	1,430	7,663	0.0196	0.1052
July	9	162	7,825	0.0022	0.1074
July	10	1,059	8,884	0.0145	0.1219
July	11	702	9,586	0.0096	0.1315
July	12	1,083	10,669	0.0149	0.1464
July	13	295	10,964	0.0040	0.1505
July	14	1,019	11,983	0.0140	0.1644
July	15	1,763	13,746	0.0242	0.1886
July	16	2,019	15,765	0.0277	0.2163
July	17	1,110	16,875	0.0152	0.2316
July	18	1,830	18,705	0.0251	0.2567
July	19	805	19,510	0.0110	0.2677
July	20	1,734	21,244	0.0238	0.2915
July	21	3,743	24,987	0.0514	0.3429
July	22	1,469	26,456	0.0202	0.3631
July	23	3,841	30,297	0.0527	0.4158
July	24	1,493	31,790	0.0205	0.4363
July	25	1,865	33,655	0.0256	0.4618
July	26	7,041	40,696	0.0966	0.5585
July	27	1,016	41,712	0.0139	0.5724
July	28	1,233	42,945	0.0169	0.5893
July	29	5,502	48,447	0.0755	0.6648
July	30	1,941	50,388	0.0266	0.6915
July	31	406	50,794	0.0056	0.6970
Aug.	1	1,134	51,928	0.0156	0.7126
Aug.	2	1,906	53,834	0.0262	0.7388
Aug.	3	689	54,523	0.0095	0.7482
Aug.	4	3,065	57,588	0.0421	0.7903
Aug.	5	1,312	58,900	0.0180	0.8083
Aug.	6	2,320	61,220	0.0318	0.8401
Aug.	7	1,479	62,699	0.0203	0.8604
Aug.	8	519	63,218	0.0071	0.8675
Aug.	9	222	63,440	0.0030	0.8706
Aug.	10	877	64,317	0.0120	0.8826
Aug.	11	851	65,168	0.0117	0.8943
Aug.	12	445	65,613	0.0061	0.9004
Aug.	13	910	66,523	0.0125	0.9129
Aug.	14	661	67,184	0.0091	0.9220
Aug.	15	287	67,471	0.0039	0.9259
Aug.	16	569	68,040	0.0078	0.9337
Aug.	17	806	68,846	0.0111	0.9448
Aug.	18	426	69,272	0.0058	0.9506
Aug.	19	941	70,213	0.0129	0.9635

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Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Aug.	20	108	70,321	0.0015	0.9650
Aug.	21	237	70,558	0.0033	0.9683
Aug.	22	303	70,861	0.0042	0.9724
Aug.	23	298	71,159	0.0041	0.9765
Aug.	24	338	71,497	0.0046	0.9811
Aug.	25	153	71,650	0.0021	0.9832
Aug.	26	155	71,805	0.0021	0.9854
Aug.	27	79	71,884	0.0011	0.9865
Aug.	28	81	71,965	0.0011	0.9876
Aug.	29	140	72,105	0.0019	0.9895
Aug.	30	72	72,177	0.0010	0.9905
Aug.	31	42	72,219	0.0006	0.9911
Sept.	1	70	72,289	0.0010	0.9920
Sept.	2	79	72,368	0.0011	0.9931
Sept.	3	21	72,389	0.0003	0.9934
Sept.	4	253	72,642	0.0035	0.9969
Sept.	5	7	72,649	0.0001	0.9970
Sept.	6	8	72,657	0.0001	0.9971
Sept.	7	3	72,660	0.0000	0.9971
Sept.	8	14	72,674	0.0002	0.9973
Sept.	9	36	72,710	0.0005	0.9978
Sept.	10	7	72,717	0.0001	0.9979
Sept.	11	17	72,734	0.0002	0.9981
Sept.	12	32	72,766	0.0004	0.9986
Sept.	13	63	72,829	0.0009	0.9994
Sept.	14	0	72,829	0.0000	0.9994
Sept.	15	7	72,836	0.0001	0.9995
Sept.	16	7	72,843	0.0001	0.9996
Sept.	17	7	72,850	0.0001	0.9997
Sept.	18	0	72,850	0.0000	0.9997
Sept.	19	7	72,857	0.0001	0.9998
Sept.	20	0	72,857	0.0000	0.9998
Sept.	21	0	72,857	0.0000	0.9998
Sept.	22	7	72,864	0.0001	0.9999
Sept.	23	0	72,864	0.0000	0.9999
Sept.	24	0	72,864	0.0000	0.9999
Sept.	25	0	72,864	0.0000	0.9999
Sept.	26	7	72,871	0.0001	1.0000

Mean Day of Migration = July 26 Variance = 170.9 Days squared

[a] Weir was operated from June 24 through September 14. Total escapement was expanded at the beginning and end of the season to account for missed fish. Expansion was based on the percent of average weir counts from 1953, 1983, and 1984 when weir was operated throughout entire migration season.

Appendix F.75. Age composition of sockeye salmon in the Ford Arm Lake escapement by sex and age class, 1990.

	Brood Year and Age Class								
	1987	1986		1985		1984		1983	
	1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Escapement Dates: (August 12 - Sept. 15)									
Sample Dates: (August 17, 23, 29, 31, Sept. 1, 2, 4, 6-8, 10, 13, 15)									
Male									
Sample Size	21	56	11	62	39	23	1	1	214
Percent	5.2	14.0	2.7	15.5	9.7	5.7	0.2	0.2	53.4
Std. Error	1.0	1.6	0.8	1.7	1.4	1.1	0.2	0.2	2.3
Number	154	411	81	455	286	169	7	7	1,570
Female									
Sample Size	1	37	1	81	34	31	1	1	187
Percent	0.2	9.2	0.2	20.2	8.5	7.7	0.2	0.2	46.6
Std. Error	0.2	1.3	0.2	1.9	1.3	1.2	0.2	0.2	2.3
Number	7	271	7	594	249	227	8	8	1,371
All Fish									
Sample Size	22	93	12	143	73	54	2	2	401
Percent	5.5	23.2	3.0	35.7	18.2	13.5	0.5	0.5	100.0
Std. Error	1.1	2.0	0.8	2.2	1.8	1.6	0.3	0.3	
Number	161	682	88	1,049	535	396	15	15	2,941

Appendix F.76. Length composition of sockeye salmon in the Ford Arm Lake escapement by sex and age class, 1990.

		Brood Year and Age Class								
		1987	1986		1985		1984		1983	
		1.1	1.2	2.1	1.3	2.2	2.3	3.2	3.3	Total
Escapement Dates: (August 12 - Sept. 15)										
Sample Dates: (August 17, 23, 29, 31, Sept. 1, 2, 4, 6-8, 10, 13, 15)										
Male	Avg. Length	349	474	363	550	481	547	364	532	487
	Std. Error	5.3	4.6	6.6	3.2	3.5	4.7			4.9
	Sample Size	21	56	11	62	39	23	1	1	214
Female	Avg. Length	358	457	334	517	463	519	482	492	493
	Std. Error		4.8		2.4	4.1	5.2			3.0
	Sample Size	1	37	1	81	34	31	1	1	187
All Fish	Avg. Length	350	467	360	531	472	531	423	512	490
	Std. Error	5.1	3.5	6.5	2.4	2.9	4.0	59.0	20.0	2.9
	Sample Size	22	93	12	143	73	54	2	2	401

Appendix F.77. Age composition of sockeye salmon in the Berners, Lace, and Antler/Gilkey Rivers escapement by sex and age class, 1990.

	Brood Year and Age Class							
	1987		1986		1985		1984	
	0.2	1.1	0.3	1.2	1.3	2.2	2.3	Total
Sample Dates: (August 14 - 16)								
Male								
Sample Size	3	5	10	39	22	1	3	83
Percent	2.2	3.7	7.4	28.9	16.3	0.7	2.2	61.5
Std. Error	1.3	1.6	2.2	3.9	3.2	0.7	1.3	4.2
Female								
Sample Size			9	16	24		3	52
Percent			6.7	11.9	17.8		2.2	38.5
Std. Error			2.1	2.8	3.3		1.3	4.2
All Fish								
Sample Size	3	5	20	55	46	1	6	136
Percent	2.2	3.7	14.7	40.4	33.8	0.7	4.4	100.0
Std. Error	1.3	1.6	3.0	4.2	4.0	0.7	1.8	

Appendix F.78. Length composition of sockeye salmon in the Berners, Lace, and Antler/Gilkey Rivers escapement by sex and age class, 1990.

		Brood Year and Age Class							
		1987		1986		1985		1984	
		0.2	1.1	0.3	1.2	1.3	2.2	2.3	Total
Sample Dates: (August 14 - 16)									
Male	Avg. Length	440	312	592	440	574	420	598	491
	Std. Error	18.9	5.6	8.6	5.1	6.4		15.9	9.6
	Sample Size	3	5	10	39	22	1	3	83
Female	Avg. Length			539	471	555		558	527
	Std. Error			8.3	4.9	6.2		12.0	6.4
	Sample Size			9	16	24		3	52
All Fish	Avg. Length	440	312	566	449	564	420	578	505
	Std. Error	18.9	5.6	8.1	4.3	4.6		12.6	6.5
	Sample Size	3	5	20	55	46	1	6	136

Appendix F.79. Age composition of sockeye salmon in the Chilkat Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class									
	1986		1985		1984			1983		
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates:	(June 16 - July 14)									
Sample Dates:	(June 25 - July 14)									
Male										
Sample Size	1	9	74	9	4	212				309
Percent	0.2	1.7	13.7	1.7	0.7	39.1				57.0
Std. Error	0.2	0.5	1.4	0.5	0.4	2.0				2.1
Number	19	174	1,427	173	77	4,087				5,957
Female										
Sample Size		1	73	3	2	154				233
Percent		0.2	13.5	0.6	0.4	28.4				43.0
Std. Error		0.2	1.4	0.3	0.3	1.9				2.1
Number		19	1,407	58	39	2,969				4,492
All Fish										
Sample Size	1	10	147	12	6	367				543
Percent	0.2	1.8	27.1	2.2	1.1	67.6				100.0
Std. Error	0.2	0.6	1.9	0.6	0.4	2.0				
Number	19	193	2,834	231	116	7,076				10,469
Escapement Dates:	(July 15 - 21)									
Sample Dates:	(June 15 - 20)									
Male										
Sample Size		5	30	30	2	212				279
Percent		1.0	5.7	5.7	0.4	40.6				53.4
Std. Error		0.4	1.0	1.0	0.3	2.1				2.1
Number		92	550	550	36	3,885				5,113
Female										
Sample Size		4	58	18	2	161				243
Percent		0.8	11.1	3.4	0.4	30.8				46.6
Std. Error		0.4	1.3	0.8	0.3	2.0				2.1
Number		73	1,063	330	37	2,950				4,453
All Fish										
Sample Size		9	88	48	4	373				522
Percent		1.7	16.9	9.2	0.8	71.5				100.0
Std. Error		0.6	1.6	1.2	0.4	1.9				
Number		165	1,613	880	73	6,835				9,566
Escapement Dates:	(July 22 - August 18)									
Sample Dates:	(July 25 - August 18)									
Male										
Sample Size		4	28	12		64				108
Percent		2.1	15.0	6.4		34.2				57.8
Std. Error		1.0	2.6	1.8		3.4				3.6
Number		132	918	394		2,099				3,543
Female										
Sample Size		3	19	10	2	45				79
Percent		1.6	10.2	5.3	1.1	24.1				42.2
Std. Error		0.9	2.2	1.6	0.7	3.1				3.6
Number		98	623	328	66	1,476				2,591
All Fish										
Sample Size		7	47	22	2	109				187
Percent		3.7	25.1	11.8	1.1	58.3				100.0
Std. Error		1.4	3.1	2.3	0.7	3.6				
Number		230	1,541	722	66	3,575				6,134
Escapement Dates:	(August 19 - 25)									
Sample Dates:	(August 20 - 24)									
Male										
Sample Size		2	26	12		25				65
Percent		1.7	21.8	10.1		21.0				54.6
Std. Error		1.2	3.7	2.7		3.7				4.5
Number		50	644	297		619				1,610
Female										
Sample Size			16	5		33				54
Percent			13.4	4.2		27.7				45.4
Std. Error			3.1	1.8		4.0				4.5
Number			396	124		818				1,338
All Fish										
Sample Size		2	42	17		58				119
Percent		1.7	35.3	14.3		48.7				100.0
Std. Error		1.2	4.3	3.2		4.5				
Number		50	1,040	421		1,437				2,948

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	Brood Year and Age Class									
	1986		1985		1984			1983		
	0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates:	(August 26 - Sept. 15)									
Sample Dates:	(August 27 - Sept. 14)									
Male										
Sample Size		8	18	169		111	3			309
Percent		1.3	2.9	27.3		17.9	0.5			49.9
Std. Error		0.4	0.7	1.8		1.5	0.3			2.0
Number		221	496	4,661		3,062	83			8,523
Female										
Sample Size	1	5	20	163	1	112	7		1	310
Percent	0.2	0.8	3.2	26.3	0.2	18.1	1.1		0.2	50.1
Std. Error	0.2	0.4	0.7	1.7	0.2	1.5	0.4		0.2	2.0
Number	28	138	552	4,494	28	3,089	193		28	8,550
All Fish										
Sample Size	1	13	38	332	1	223	10		1	619
Percent	0.2	2.1	6.1	53.6	0.2	36.0	1.6		0.2	100.0
Std. Error	0.2	0.6	0.9	2.0	0.2	1.9	0.5		0.2	
Number	28	359	1,048	9,155	28	6,151	276		28	17,073
Escapement Dates:	(Sept. 16 - November 13)									
Sample Dates:	(Sept. 19 - November 5)									
Male										
Sample Size		5	3	126		255	7	2		398
Percent		0.8	0.5	19.5		39.5	1.1	0.3		61.7
Std. Error		0.3	0.3	1.5		1.9	0.4	0.2		1.9
Number		109	65	2,743		5,551	152	44		8,664
Female										
Sample Size		1	3	96		144	3			247
Percent		0.2	0.5	14.9		22.3	0.5			38.3
Std. Error		0.2	0.3	1.4		1.6	0.3			1.9
Number		22	65	2,090		3,135	65			5,377
All Fish										
Sample Size		6	6	222		399	10	2		645
Percent		0.9	0.9	34.4		61.9	1.6	0.3		100.0
Std. Error		0.4	0.4	1.8		1.9	0.5	0.2		
Number		131	130	4,833		8,686	217	44		14,041
Combined Periods (Percentages are weighted by period escapements)										
Male										
Sample Size	1	33	179	358	6	879	10	2		1,468
Percent	<0.1	1.3	6.8	14.6	0.2	32.1	0.4	0.1		55.5
Std. Error	<0.1	0.2	0.5	0.7	0.1	0.9	0.1	<0.1		1.0
Number	19	778	4,100	8,818	113	19,303	235	44		33,410
Female										
Sample Size	1	14	189	295	7	649	10		1	1,166
Percent	<0.1	0.6	6.8	12.3	0.3	24.0	0.4		<0.1	44.5
Std. Error	<0.1	0.2	0.5	0.6	0.1	0.8	0.1		<0.1	1.0
Number	28	350	4,106	7,424	170	14,437	258		28	26,801
All Fish										
Sample Size	2	47	368	653	13	1,529	20	2	1	2,635
Percent	0.1	1.9	13.6	27.0	0.5	56.1	0.8	0.1	<0.1	100.0
Std. Error	0.1	0.3	0.6	0.8	0.1	0.9	0.2	<0.1	<0.1	
Number	47	1,128	8,206	16,242	283	33,760	493	44	28	60,231

Appendix F.80. Length composition of sockeye salmon in the Chilkat Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class									
		1986		1985		1984			1983		
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates: (June 16 - July 14)											
Sample Dates: (June 25 - July 14)											
Male	Avg. Length	590	501	590	505	573	565				567
	Std. Error		15.5	4.1	11.0	19.0	3.0				2.6
	Sample Size	1	9	74	9	4	212				309
Female	Avg. Length		565	579	548	608	578				578
	Std. Error			2.4	1.7	2.5	1.9				1.5
	Sample Size		1	73	3	2	153				232
All Fish	Avg. Length	590	508	584	516	584	570				572
	Std. Error		15.3	2.4	9.9	14.1	1.9				1.6
	Sample Size	1	10	147	12	6	366				542
Escapement Dates: (July 15 - 21)											
Sample Dates: (July 15 - 20)											
Male	Avg. Length		485	573	516	603	537				538
	Std. Error		23.7	8.6	7.0	17.5	2.4				2.4
	Sample Size		5	30	30	2	212				279
Female	Avg. Length		510	580	516	573	571				568
	Std. Error		17.0	3.0	7.7	32.5	2.2				2.1
	Sample Size		4	58	18	2	161				243
All Fish	Avg. Length		496	577	516	588	552				552
	Std. Error		14.9	3.5	5.2	17.4	1.9				1.7
	Sample Size		9	88	48	4	373				522
Escapement Dates: (July 22 - August 18)											
Sample Dates: (July 25 - August 18)											
Male	Avg. Length		519	581	554		555				560
	Std. Error		34.7	6.6	12.4		6.1				4.5
	Sample Size		4	28	12		64				108
Female	Avg. Length		535	578	530	620	569				566
	Std. Error		15.3	7.1	11.9	25.0	4.0				3.8
	Sample Size		3	19	10	2	45				79
All Fish	Avg. Length		526	580	543	620	561				563
	Std. Error		19.7	4.8	8.9	25.0	4.0				3.1
	Sample Size		7	47	22	2	109				187
Escapement Dates: (August 19 - 25)											
Sample Dates: (August 20 - 24)											
Male	Avg. Length		543	581	546		602				581
	Std. Error		22.5	7.6	10.5		6.7				5.1
	Sample Size		2	26	12		25				65
Female	Avg. Length			579	533		586				579
	Std. Error			8.3	14.5		6.0				5.0
	Sample Size			16	5		33				54
All Fish	Avg. Length		543	580	542		593				580
	Std. Error		22.5	5.6	8.4		4.5				3.6
	Sample Size		2	42	17		58				119
Escapement Dates: (August 26 - Sept. 15)											
Sample Dates: (August 27 - Sept. 14)											
Male	Avg. Length		511	588	535		607	485			563
	Std. Error		10.3	10.5	2.9		3.4	5.0			2.9
	Sample Size		8	18	169		111	3			309
Female	Avg. Length	570	513	567	523	575	583	540		605	548
	Std. Error		11.2	5.5	2.0		2.8	12.1			2.2
	Sample Size	1	5	20	162	1	112	7		1	309
All Fish	Avg. Length	570	512	577	529	575	595	524		605	556
	Std. Error		7.3	5.9	1.8		2.3	11.8			1.9
	Sample Size	1	13	38	331	1	223	10		1	618

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		Brood Year and Age Class									
		1986		1985		1984			1983		
		0.3	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates: (Sept. 16 - November 13) Sample Dates: (Sept. 19 - November 5)											
Male	Avg. Length		527	613	541		621	549	640		593
	Std. Error		17.4	17.6	2.2		1.5	6.6	5.0		2.3
	Sample Size		5	3	126		255	7	2		398
Female	Avg. Length		510	592	528		588	535			564
	Std. Error			13.0	2.6		2.3	17.3			2.5
	Sample Size		1	3	96		144	3			247
All Fish	Avg. Length		524	603	535		609	545	640		582
	Std. Error		14.5	10.9	1.8		1.5	6.7	5.0		1.8
	Sample Size		6	6	222		399	10	2		645
Combined Periods (Lengths weighted by period escapements)											
Male	Avg. Length	590	511	591	531	587	586	514	640		567
	Std. Error		7.8	2.9	1.8	14.3	1.7	10.8	5.0		1.3
	Sample Size	1	33	179	358	6	879	10	2		1468
Female	Avg. Length	570	524	579	529	589	580	538		605	564
	Std. Error		7.7	1.8	1.5	12.3	1.1	9.4			1.1
	Sample Size	1	14	189	294	7	648	10		1	1164
All Fish	Avg. Length	578	514	585	528	586	583	533	640	605	566
	Std. Error	10.0	5.9	1.7	1.2	9.2	1.1	7.0	5.0		0.9
	Sample Size	2	47	368	652	13	1528	20	2	1	2633

Appendix F.81. Daily sockeye salmon counts and associated statistics from Chilkat Lake weir, 1990.

Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
June	16	202	202	0.0034	0.0034
June	17	0	202	0.0000	0.0034
June	18	11	213	0.0002	0.0035
June	19	129	342	0.0021	0.0057
June	20	313	655	0.0052	0.0109
June	21	0	655	0.0000	0.0109
June	22	116	771	0.0019	0.0128
June	23	70	841	0.0012	0.0140
June	24	118	959	0.0020	0.0159
June	25	307	1,266	0.0051	0.0210
June	26	318	1,584	0.0053	0.0263
June	27	838	2,422	0.0139	0.0402
June	28	348	2,770	0.0058	0.0460
June	29	594	3,364	0.0099	0.0559
June	30	1,092	4,456	0.0181	0.0740
July	1	0	4,456	0.0000	0.0740
July	2	0	4,456	0.0000	0.0740
July	3	497	4,953	0.0083	0.0822
July	4	145	5,098	0.0024	0.0846
July	5	221	5,319	0.0037	0.0883
July	6	355	5,674	0.0059	0.0942
July	7	442	6,116	0.0073	0.1015
July	8	572	6,688	0.0095	0.1110
July	9	366	7,054	0.0061	0.1171
July	10	0	7,054	0.0000	0.1171
July	11	671	7,725	0.0111	0.1283
July	12	610	8,335	0.0101	0.1384
July	13	928	9,263	0.0154	0.1538
July	14	1,206	10,469	0.0200	0.1738
July	15	3,097	13,566	0.0514	0.2252
July	16	1,842	15,408	0.0306	0.2558
July	17	2,228	17,636	0.0370	0.2928
July	18	1,136	18,772	0.0189	0.3117
July	19	1,093	19,865	0.0181	0.3298
July	20	142	20,007	0.0024	0.3322
July	21	28	20,035	0.0005	0.3326
July	22	3	20,038	0.0000	0.3327
July	23	0	20,038	0.0000	0.3327
July	24	27	20,065	0.0004	0.3331
July	25	67	20,132	0.0011	0.3342
July	26	250	20,382	0.0042	0.3384
July	27	1,431	21,813	0.0238	0.3622
July	28	602	22,415	0.0100	0.3722
July	29	256	22,671	0.0043	0.3764
July	30	0	22,671	0.0000	0.3764
July	31	0	22,671	0.0000	0.3764
Aug.	1	25	22,696	0.0004	0.3768
Aug.	2	571	23,267	0.0095	0.3863
Aug.	3	119	23,386	0.0020	0.3883
Aug.	4	478	23,864	0.0079	0.3962
Aug.	5	143	24,007	0.0024	0.3986
Aug.	6	978	24,985	0.0162	0.4148
Aug.	7	523	25,508	0.0087	0.4235
Aug.	8	281	25,789	0.0047	0.4282
Aug.	9	0	25,789	0.0000	0.4282
Aug.	10	0	25,789	0.0000	0.4282
Aug.	11	0	25,789	0.0000	0.4282
Aug.	12	0	25,789	0.0000	0.4282
Aug.	13	0	25,789	0.0000	0.4282
Aug.	14	0	25,789	0.0000	0.4282
Aug.	15	3	25,792	0.0000	0.4282
Aug.	16	47	25,839	0.0008	0.4290
Aug.	17	7	25,846	0.0001	0.4291
Aug.	18	323	26,169	0.0054	0.4345
Aug.	19	0	26,169	0.0000	0.4345
Aug.	20	51	26,220	0.0008	0.4353
Aug.	21	263	26,483	0.0044	0.4397
Aug.	22	289	26,772	0.0048	0.4445
Aug.	23	404	27,176	0.0067	0.4512
Aug.	24	811	27,987	0.0135	0.4647
Aug.	25	1,130	29,117	0.0188	0.4834
Aug.	26	1,252	30,369	0.0208	0.5042
Aug.	27	86	30,455	0.0014	0.5056
Aug.	28	79	30,534	0.0013	0.5069
Aug.	29	21	30,555	0.0003	0.5073
Aug.	30	2,612	33,167	0.0434	0.5507
Aug.	31	723	33,890	0.0120	0.5627

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Date		Daily Count	Cumulative Count	Daily Proportion of Total	Cumulative Proportion of Total
Sept.	1	2,394	36,284	0.0397	0.6024
Sept.	2	3,368	39,652	0.0559	0.6583
Sept.	3	4,159	43,811	0.0691	0.7274
Sept.	4	1,075	44,886	0.0178	0.7452
Sept.	5	966	45,852	0.0160	0.7613
Sept.	6	0	45,852	0.0000	0.7613
Sept.	7	60	45,912	0.0010	0.7623
Sept.	8	19	45,931	0.0003	0.7626
Sept.	9	0	45,931	0.0000	0.7626
Sept.	10	135	46,066	0.0022	0.7648
Sept.	11	26	46,092	0.0004	0.7653
Sept.	12	6	46,098	0.0001	0.7654
Sept.	13	86	46,184	0.0014	0.7668
Sept.	14	6	46,190	0.0001	0.7669
Sept.	15	0	46,190	0.0000	0.7669
Sept.	16	0	46,190	0.0000	0.7669
Sept.	17	138	46,328	0.0023	0.7692
Sept.	18	410	46,738	0.0068	0.7760
Sept.	19	116	46,854	0.0019	0.7779
Sept.	20	0	46,854	0.0000	0.7779
Sept.	21	0	46,854	0.0000	0.7779
Sept.	22	0	46,854	0.0000	0.7779
Sept.	23	0	46,854	0.0000	0.7779
Sept.	24	0	46,854	0.0000	0.7779
Sept.	25	893	47,747	0.0148	0.7927
Sept.	26	893	48,640	0.0148	0.8076
Sept.	27	893	49,533	0.0148	0.8224
Sept.	28	893	50,426	0.0148	0.8372
Sept.	29	893	51,319	0.0148	0.8520
Sept.	30	893	52,212	0.0148	0.8669
Oct.	1	893	53,105	0.0148	0.8817
Oct.	2	716	53,821	0.0119	0.8936
Oct.	3	505	54,326	0.0084	0.9020
Oct.	4	175	54,501	0.0029	0.9049
Oct.	5	248	54,749	0.0041	0.9090
Oct.	6	122	54,871	0.0020	0.9110
Oct.	7	111	54,982	0.0018	0.9129
Oct.	8	667	55,649	0.0111	0.9239
Oct.	9	3,191	58,840	0.0530	0.9769
Oct.	10	217	59,057	0.0036	0.9805
Oct.	11	137	59,194	0.0023	0.9828
Oct.	12	74	59,268	0.0012	0.9840
Oct.	13	48	59,316	0.0008	0.9848
Oct.	14	30	59,346	0.0005	0.9853
Oct.	15	42	59,388	0.0007	0.9860
Oct.	16	48	59,436	0.0008	0.9868
Oct.	17	22	59,458	0.0004	0.9872
Oct.	18	22	59,480	0.0004	0.9875
Oct.	19	35	59,515	0.0006	0.9881
Oct.	20	18	59,533	0.0003	0.9884
Oct.	21	93	59,626	0.0015	0.9900
Oct.	22	114	59,740	0.0019	0.9918
Oct.	23	135	59,875	0.0022	0.9941
Oct.	24	50	59,925	0.0008	0.9949
Oct.	25	29	59,954	0.0005	0.9954
Oct.	26	56	60,010	0.0009	0.9963
Oct.	27	25	60,035	0.0004	0.9967
Oct.	28	43	60,078	0.0007	0.9975
Oct.	29	26	60,104	0.0004	0.9979
Oct.	30	19	60,123	0.0003	0.9982
Oct.	31	12	60,135	0.0002	0.9984
Nov.	1	12	60,147	0.0002	0.9986
Nov.	2	13	60,160	0.0002	0.9988
Nov.	3	3	60,163	0.0000	0.9989
Nov.	4	8	60,171	0.0001	0.9990
Nov.	5	13	60,184	0.0002	0.9992
Nov.	6	14	60,198	0.0002	0.9995
Nov.	7	14	60,212	0.0002	0.9997
Nov.	8	8	60,220	0.0001	0.9998
Nov.	9	0	60,220	0.0000	0.9998
Nov.	10	2	60,222	0.0000	0.9999
Nov.	11	0	60,222	0.0000	0.9999
Nov.	12	7	60,229	0.0001	1.0000
Nov.	13	2	60,231	0.0000	1.0000

Mean Day of Migration = Aug. 19 Variance = 1134.9 Days squared

Appendix F.82. Age composition of sockeye salmon in the Chilkat River mainstem escapement by sex and age class, 1990.

	Brood Year and Age Class				
	1987	1986		1985	
	0.2	0.3	1.2	1.3	Total
Sample Dates:	(September 26 - 27)				
Male					
Sample Size	7	2	1	4	14
Percent	31.8	9.1	4.5	18.2	63.6
Std. Error	10.2	6.3	4.5	8.4	10.5
Female					
Sample Size	1	5		2	8
Percent	4.5	22.7		9.1	36.4
Std. Error	4.5	9.1		6.3	10.5
All Fish					
Sample Size	8	7	1	6	22
Percent	36.4	31.8	4.5	27.3	100.0
Std. Error	10.5	10.2	4.5	9.7	

Appendix F.83. Length composition of sockeye salmon in the Chilkat River mainstem escapement by sex and age class, 1990.

		Brood Year and Age Class				
		1987	1986		1985	
		0.2	0.3	1.2	1.3	Total
Sample Dates:	(September 26 - 27)					
Male	Avg. Length	423	623	400	596	499
	Std. Error	6.0	7.5		12.3	25.9
	Sample Size	7	2	1	4	14
Female	Avg. Length	505	559		580	558
	Std. Error		6.8		15.0	9.6
	Sample Size	1	5		2	8
All Fish	Avg. Length	433	577	400	591	520
	Std. Error	11.5	12.7		9.3	17.7
	Sample Size	8	7	1	6	22

Appendix F.84. Age composition of sockeye salmon in the Tahini River escapement by sex and age class, 1990.

	Brood Year and Age Class				
	1986		1985	1984	
	0.3	1.2	1.3	2.3	Total
Sample Dates: (July 24 - August 2)					
Male					
Sample Size	4	1	23	2	30
Percent	11.4	2.9	65.7	5.7	85.7
Std. Error	5.4	2.9	8.1	4.0	6.0
Female					
Sample Size		1	4		5
Percent		2.9	11.4		14.3
Std. Error		2.9	5.4		6.0
All Fish					
Sample Size	4	2	27	2	35
Percent	11.4	5.7	77.1	5.7	100.0
Std. Error	5.4	4.0	7.2	4.0	

Appendix F.85. Length composition of sockeye salmon in the Tahini River escapement by sex and age class, 1990.

		Brood Year and Age Class				
		1986		1985	1984	
		0.3	1.2	1.3	2.3	Total
Sample Dates: (July 24 - August 2)						
Male	Avg. Length	623	430	612	610	607
	Std. Error	21.0		5.8		8.0
	Sample Size	4	1	23	2	30
Female	Avg. Length		520	593		578
	Std. Error			19.3		20.8
	Sample Size		1	4		5
All Fish	Avg. Length	623	475	609	610	603
	Std. Error	21.0	45.0	5.7		7.5
	Sample Size	4	2	27	2	35

Appendix F.86. Age composition of sockeye salmon caught in the Chilkat River fish wheels by sex, age class, and escapement period, 1990.

	Brood Year and Age Class									
	1987		1986			1985		1984		
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	2.3	3.2	Total
Statistical Weeks 33 - 34 (August 12 - 25)										
Male										
Sample Size	3	5	7	4	10	15	31	34		109
Percent	1.2	2.1	2.9	1.7	4.1	6.2	12.8	14.0		45.0
Std. Error	0.7	0.9	1.1	0.8	1.3	1.5	2.1	2.2		3.2
Female										
Sample Size			11	3		17	68	33	1	133
Percent			4.5	1.2		7.0	28.1	13.6	0.4	55.0
Std. Error			1.3	0.7		1.6	2.9	2.2	0.4	3.2
All Fish										
Sample Size	3	5	19	7	10	32	100	67	1	244
Percent	1.2	2.0	7.8	2.9	4.1	13.1	41.0	27.5	0.4	100.0
Std. Error	0.7	0.9	1.7	1.1	1.3	2.2	3.1	2.8	0.4	
Statistical Weeks 35 - 43 (August 26 - October 27)										
Male										
Sample Size	2			3	13		125	45	2	190
Percent	0.4			0.6	2.5		24.5	8.8	0.4	37.2
Std. Error	0.3			0.3	0.7		1.9	1.2	0.3	2.1
Female										
Sample Size			1	7		2	246	62	3	321
Percent			0.2	1.4		0.4	48.1	12.1	0.6	62.8
Std. Error			0.2	0.5		0.3	2.2	1.4	0.3	2.1
All Fish										
Sample Size	2		1	10	13	2	371	107	5	511
Percent	0.4		0.2	2.0	2.5	0.4	72.6	20.9	1.0	100.0
Std. Error	0.3		0.2	0.6	0.7	0.3	1.9	1.8	0.4	
Combined Periods (Percentages are weighted by period escapements)										
Male										
Sample Size	5	5	7	7	23	15	156	79	2	299
Percent	0.8	1.0	1.4	1.1	3.3	3.1	18.7	11.4	0.2	41.1
Std. Error	0.4	0.5	0.5	0.4	0.7	0.8	1.4	1.3	0.1	1.9
Female										
Sample Size			12	10		19	314	95	4	454
Percent			2.4	1.3		3.7	38.2	12.9	0.5	58.9
Std. Error			0.7	0.4		0.8	1.8	1.3	0.3	1.9
All Fish										
Sample Size	5	5	20	17	23	34	471	174	6	755
Percent	0.8	1.0	4.0	2.4	3.3	6.8	56.8	24.2	0.7	100.0
Std. Error	0.4	0.5	0.9	0.6	0.7	1.1	1.8	1.7	0.3	

Appendix F.87. Length composition of sockeye salmon caughts in the Chilkat River fish wheels by sex, age class, and escapement period, 1990.

		Brood Year and Age Class									
		1987		1986			1985		1984		
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	2.3	3.2	Total
Statistical Weeks 33 - 34 (August 12 - 25)											
Male	Avg. Length	420	312	574	470	358	598	526	605		533
	Std. Error	20.2	5.8	13.5	41.4	4.3	7.6	9.0	7.4		9.5
	Sample Size	3	5	7	4	10	14	31	34		108
Female	Avg. Length			561	495		564	512	580	490	539
	Std. Error			4.9	7.6		9.9	3.9	6.5		3.9
	Sample Size			11	3		17	68	33	1	133
All Fish	Avg. Length	420	312	566	481	358	579	517	593	490	536
	Std. Error	20.2	5.8	6.0	22.9	4.3	7.0	3.9	5.1		4.7
	Sample Size	3	5	18	7	10	31	100	67	1	242
Statistical Weeks 35 - 43 (August 26 - October 27)											
Male	Avg. Length	480			480	349		531	606	528	535
	Std. Error	80.0			40.0	6.8		3.6	5.3	12.5	5.2
	Sample Size	2			3	13		124	45	2	189
Female	Avg. Length			580	494		553	511	573	498	523
	Std. Error				11.3		42.5	1.8	4.0	17.4	2.2
	Sample Size			1	7		2	246	62	3	321
All Fish	Avg. Length	480		580	490	349	553	518	587	510	527
	Std. Error	80.0			13.1	6.8	42.5	1.8	3.6	12.5	2.4
	Sample Size	2		1	10	13	2	370	107	5	510
Combined Periods (Lengths unweighted)											
Male	Avg. Length	450	312	574	475	353	598	528	605	528	534
	Std. Error	31.2	5.8	13.5	26.9	4.3	7.6	3.4	4.3	12.5	4.8
	Sample Size	5	5	7	7	23	14	155	79	2	297
Female	Avg. Length			570	495		558	511	577	494	531
	Std. Error			4.8	7.9		9.5	1.7	3.5	12.5	1.9
	Sample Size			12	10		19	314	95	4	454
All Fish	Avg. Length	450	312	573	485	353	566	517	590	500	532
	Std. Error	31.2	5.8	5.7	11.8	4.3	6.9	1.6	2.9	10.8	2.2
	Sample Size	5	5	19	17	23	33	470	174	6	752

Appendix F.88. Age composition of sockeye salmon in the Chilkoot Lake escapement by sex, age class, and escapement period, 1990.

	Brood Year and Age Class								
	1986	1985		1984			1983		
	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates:	(June 3 - 16)								
Sample Dates:	(June 5 - 16)								
Male									
Sample Size		32		2	91		3		128
Percent		15.4		1.0	43.8		1.4		61.5
Std. Error		2.4		0.6	3.3		0.8		3.2
Number		367		23	1,045		35		1,470
Female									
Sample Size		18			61		1		80
Percent		8.7			29.3		0.5		38.5
Std. Error		1.9			3.0		0.5		3.2
Number		207			700		11		918
All Fish									
Sample Size		50		2	152		4		208
Percent		24.0		1.0	73.1		1.9		100.0
Std. Error		2.8		0.6	2.9		0.9		
Number		574		23	1,745		46		2,388
Escapement Dates:	(June 17 - 30)								
Sample Dates:	(June 17 - 30)								
Male									
Sample Size	3	73		6	186		4		272
Percent	0.7	15.9		1.3	40.5		0.9		59.3
Std. Error	0.4	1.7		0.5	2.3		0.4		2.3
Number	98	2,381		196	6,065		130		8,870
Female									
Sample Size	2	62	2	1	117		2	1	187
Percent	0.4	13.5	0.4	0.2	25.5		0.4	0.2	40.7
Std. Error	0.3	1.6	0.3	0.2	2.0		0.3	0.2	2.3
Number	65	2,022	65	33	3,815		65	33	6,098
All Fish									
Sample Size	5	135	2	7	303		6	1	459
Percent	1.1	29.4	0.4	1.5	66.0		1.3	0.2	100.0
Std. Error	0.5	2.1	0.3	0.6	2.2		0.5	0.2	
Number	163	4,403	65	229	9,880		195	33	14,968
Escapement Dates:	(July 1 - 14)								
Sample Dates:	(July 2 - 14)								
Male									
Sample Size	2	74	1	2	113		3	1	196
Percent	0.7	24.3	0.3	0.7	37.2		1.0	0.3	64.5
Std. Error	0.4	2.4	0.3	0.4	2.7		0.5	0.3	2.6
Number	25	943	13	25	1,440		38	13	2,497
Female									
Sample Size		39	1	1	66		1		108
Percent		12.8	0.3	0.3	21.7		0.3		35.5
Std. Error		1.8	0.3	0.3	2.3		0.3		2.6
Number		497	13	13	840		13		1,376
All Fish									
Sample Size	2	113	2	3	179		4	1	304
Percent	0.7	37.2	0.7	1.0	58.9		1.3	0.3	100.0
Std. Error	0.4	2.7	0.4	0.5	2.7		0.6	0.3	
Number	25	1,440	26	38	2,280		51	13	3,873

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	Brood Year and Age Class								
	1986	1985		1984			1983		
	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates:	(July 15 - August 4)								
Sample Dates:	(July 15 - August 4)								
Male									
Sample Size	16	171	9	4	97	1	5		303
Percent	3.0	31.9	1.7	0.7	18.1	0.2	0.9		56.5
Std. Error	0.7	2.0	0.5	0.4	1.6	0.2	0.4		2.1
Number	287	3,068	161	72	1,740	18	90		5,436
Female									
Sample Size	7	136	11	3	76				233
Percent	1.3	25.4	2.1	0.6	14.2				43.5
Std. Error	0.5	1.8	0.6	0.3	1.5				2.1
Number	126	2,440	197	54	1,364				4,181
All Fish									
Sample Size	23	307	20	7	173	1	5		536
Percent	4.3	57.3	3.7	1.3	32.3	0.2	0.9		100.0
Std. Error	0.9	2.1	0.8	0.5	2.0	0.2	0.4		
Number	413	5,508	358	126	3,104	18	90		9,617
Escapement Dates:	(August 5 - 25)								
Sample Dates:	(August 5 - 25)								
Male									
Sample Size	5	211	5	2	120		2		345
Percent	0.9	36.4	0.9	0.3	20.7		0.3		59.5
Std. Error	0.4	2.0	0.4	0.2	1.7		0.2		2.0
Number	171	7,204	171	68	4,097		68		11,779
Female									
Sample Size	2	132	2	1	97		1		235
Percent	0.3	22.8	0.3	0.2	16.7		0.2		40.5
Std. Error	0.2	1.7	0.2	0.2	1.5		0.2		2.0
Number	68	4,508	68	34	3,312		34		8,024
All Fish									
Sample Size	7	343	7	3	217		3		580
Percent	1.2	59.1	1.2	0.5	37.4		0.5		100.0
Std. Error	0.4	2.0	0.4	0.3	2.0		0.3		
Number	239	11,712	239	102	7,409		102		19,803
Escapement Dates:	(August 26 - Oct. 14)								
Sample Dates:	(August 26 - Sept. 17)								
Male									
Sample Size	14	175	5	1	161		5		361
Percent	2.0	24.4	0.7	0.1	22.5		0.7		50.4
Std. Error	0.5	1.6	0.3	0.1	1.5		0.3		1.8
Number	498	6,220	177	36	5,723		178		12,832
Female									
Sample Size	4	151	5	4	188		2	1	355
Percent	0.6	21.1	0.7	0.6	26.3		0.3	0.1	49.6
Std. Error	0.3	1.5	0.3	0.3	1.6		0.2	0.1	1.8
Number	142	5,367	178	142	6,682		71	36	12,618
All Fish									
Sample Size	18	326	10	5	349		7	1	716
Percent	2.5	45.5	1.4	0.7	48.7		1.0	0.1	100.0
Std. Error	0.6	1.8	0.4	0.3	1.8		0.4	0.1	
Number	640	11,587	355	178	12,405		249	36	25,450

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	Brood Year and Age Class								
	1986	1985		1984			1983		
	1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Combined Periods (Percentages are weighted by period escapements)									
Male									
Sample Size	40	736	20	17	768	1	22	1	1,605
Percent	1.4	26.5	0.7	0.6	26.4	<0.1	0.7	<0.1	56.4
Std. Error	0.2	0.9	0.2	0.1	0.8	<0.1	0.2	<0.1	1.0
Number	1,079	20,183	522	420	20,110	18	539	13	42,884
Female									
Sample Size	15	538	21	10	605		7	2	1,198
Percent	0.5	19.8	0.7	0.4	22.0		0.3	0.1	43.6
Std. Error	0.1	0.8	0.2	0.1	0.8		0.1	0.1	1.0
Number	401	15,041	521	276	16,713		194	69	33,215
All Fish									
Sample Size	55	1,274	41	27	1,373	1	29	3	2,803
Percent	1.9	46.3	1.4	0.9	48.4	<0.1	1.0	0.1	100.0
Std. Error	0.3	1.0	0.2	0.2	1.0	<0.1	0.2	0.1	
Number	1,480	35,224	1,043	696	36,823	18	733	82	76,099

Appendix F.89. Length composition of sockeye salmon in the Chilkoot Lake escapement by sex, age class, and escapement period, 1990.

		Brood Year and Age Class								
		1986	1985		1984			1983		
		1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates: (June 3 - 16)										
Sample Dates: (June 5 - 16)										
Male	Avg. Length		574		605	578		598		578
	Std. Error		3.7		10.0	2.8		13.6		2.3
	Sample Size		32		2	91		3		128
Female	Avg. Length		562			559		560		560
	Std. Error		5.7			3.0				2.6
	Sample Size		18			61		1		80
All Fish	Avg. Length		570		605	571		589		571
	Std. Error		3.2		10.0	2.2		13.6		1.8
	Sample Size		50		2	152		4		208
Escapement Dates: (June 17 - 30)										
Sample Dates: (June 17 - 30)										
Male	Avg. Length	493	577		610	575		578		575
	Std. Error	21.7	2.6		9.9	2.3		18.5		1.9
	Sample Size	3	73		6	186		4		272
Female	Avg. Length	483	561	490	560	560		605	555	559
	Std. Error	7.5	2.4			2.4		5.0		1.9
	Sample Size	2	62	2	1	117		2	1	187
All Fish	Avg. Length	489	569	490	603	569		587	555	569
	Std. Error	12.4	1.9		11.0	1.7		13.1		1.4
	Sample Size	5	135	2	7	303		6	1	459
Escapement Dates: (July 1 - 14)										
Sample Dates: (July 2 - 14)										
Male	Avg. Length	523	588	550	605	588		597	605	588
	Std. Error	12.5	2.4		15.0	2.3		12.0		1.7
	Sample Size	2	74	1	2	113		3	1	196
Female	Avg. Length		562	490	625	562		550		562
	Std. Error		4.6			2.8				2.5
	Sample Size		39	1	1	66		1		108
All Fish	Avg. Length	523	579	520	612	578		585	605	579
	Std. Error	12.5	2.5	30.0	10.9	2.0		14.4		1.6
	Sample Size	2	113	2	3	179		4	1	304
Escapement Dates: (July 15 - August 4)										
Sample Dates: (July 15 - August 4)										
Male	Avg. Length	450	590	491	621	591	490	604		580
	Std. Error	9.8	1.8	20.1	7.2	2.3		11.8		2.5
	Sample Size	16	171	9	4	97	1	5		303
Female	Avg. Length	474	568	517	635	567				563
	Std. Error	8.1	1.9	8.4	13.2	3.2				2.1
	Sample Size	7	136	11	3	76				233
All Fish	Avg. Length	457	580	505	627	581	490	604		573
	Std. Error	7.5	1.5	10.3	6.9	2.1		11.8		1.7
	Sample Size	23	307	20	7	173	1	5		536

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		Brood Year and Age Class								
		1986	1985		1984			1983		
		1.2	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Total
Escapement Dates: (August 5 - 25)										
Sample Dates: (August 5 - 25)										
Male	Avg. Length	467	590	496	615	594		618		589
	Std. Error	19.1	1.7	25.4	25.0	1.8		27.5		1.6
	Sample Size	5	211	5	2	120		2		345
Female	Avg. Length	493	565	490	580	568		635		565
	Std. Error	12.5	1.9	5.0		2.3				1.6
	Sample Size	2	132	2	1	97		1		235
All Fish	Avg. Length	474	581	494	603	583		623		579
	Std. Error	14.2	1.4	17.6	18.6	1.7		16.9		1.3
	Sample Size	7	343	7	3	217		3		580
Escapement Dates: (August 26 - Oct. 14)										
Sample Dates: (August 26 - Sept. 17)										
Male	Avg. Length	459	594	460	565	592		605		586
	Std. Error	11.3	1.7	20.1		1.8		2.2		2.0
	Sample Size	14	175	5	1	161		5		361
Female	Avg. Length	495	568	500	590	573		578	580	569
	Std. Error	29.0	2.0	13.1	5.4	1.8		12.5		1.5
	Sample Size	4	151	5	4	188		2	1	355
All Fish	Avg. Length	467	582	480	585	582		597	580	578
	Std. Error	11.0	1.5	13.1	6.5	1.4		6.0		1.3
	Sample Size	18	326	10	5	349		7	1	716
Combined Periods (Lengths weighted by period escapements)										
Male	Avg. Length	469	589	480	594	589	490	602	605	584
	Std. Error	6.7	0.9	12.4	5.5	1.0		5.4		0.9
	Sample Size	40	736	20	17	768	1	22	1	1605
Female	Avg. Length	489	566	497	589	568		596	573	565
	Std. Error	8.3	1.0	5.8	9.4	1.0		11.5	12.5	0.8
	Sample Size	15	538	21	10	605		7	2	1198
All Fish	Avg. Length	474	579	490	599	579	490	601	575	576
	Std. Error	5.5	0.7	6.8	4.8	0.7		4.9	14.4	0.6
	Sample Size	55	1274	41	27	1373	1	29	3	2803

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