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ABUNDANCE, AGE, SEX, AND SIZE OF COHO SALMON (*Oncorhynchus kisutch* Walbaum) CATCHES AND ESCAPEMENTS IN SOUTHEASTERN ALASKA, 1985

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June 1987

ALASKA DEPARTMENT OF FISH AND GAME
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Commissioner

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Technical Data Report No. 208
Alaska Department of Fish and Game
Division of Commercial Fisheries
Juneau, Alaska

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TABLE OF CONTENTS

	Page
LIST OF TABLES	i
LIST OF FIGURES	iii
LIST OF APPENDICES	iv
ABSTRACT	vii
INTRODUCTION	1
METHODS	3
Catch Statistics	3
Escapement Counts	3
Age, Sex, and Size	3
Analysis Strata	4
Troll	4
Seine, Gill Net, and Canadian Inriver Gill Net	5
Escapement	5
RESULTS AND DISCUSSION	5
Harvest Statistics	5
Numbers and Landed Weight	6
Troll	6
Seine	6
Gill Net	6
Trap	6
Sport	22
Subsistence	22
Canadian Inriver Gill Net	22
Age, Sex, and Size Data and Historical Comparison	22
Troll	22
Seine	22
Gill Net	44
Canadian Inriver Gill Net	44
Escapement Statistics	50
Numbers of Fish	50
Age, Sex, and Size	50

TABLE OF CONTENTS (Continued)

Page

ACKNOWLEDGMENTS 78

LITERATURE CITED 79

APPENDICES 81

APPENDIX A - Abundance, Age, Sex, and Size Data 81

APPENDIX B - Separability of Wild and Hatchery Stock Coho Salmon Based on Analysis of Scale Patterns 180

LIST OF TABLES

Table		Page
1.	Harvest of coho salmon in Southeastern Alaska, 1985	7
2.	Commercial harvest of coho salmon in Southeastern Alaska by gear type and district in numbers, weight (pounds), and average weight, 1985	8
3.	Troll harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985	11
4.	Purse seine harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985	16
5,	Gillnet harvest of coho salmon in Southeastern Alaska by statistical week in numbers, weight (pounds), and average weight, 1985	18
6.	Trap harvest of coho salmon on the Annette Island Indian Reserve, Southeastern Alaska District 101-28, in numbers, weight (pounds) and average weight, 1985	21
7.	Sport harvest of coho salmon in Southeastern Alaska, 1985	23
8	Subsistence harvest of coho salmon by system in Southeastern Alaska, 1985	24
9.	Canadian inriver harvest of coho salmon from the Taku and Stikine Rivers, 1985	25
10.	Comparison of coho salmon age composition between years 1969, 1970, 1982, 1983, 1984, and 1985 for selected Southeastern Alaska troll and gillnet fisheries	26
11.	Age composition of the Southeastern Alaska troll fishery harvest of coho salmon by area and period, 1985	29
12.	Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska troll fishery by area, period, and age, 1985	33
13.	Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district, 1985	38
14.	Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska purse seine fishery by district and age, 1985	42
15.	Age composition of the Southeastern Alaska gillnet harvest of coho salmon by district, 1985	45

LIST OF TABLES (Continued)

Table		Page
16.	Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska gillnet fishery by district and age, 1985	47
17.	Age composition and average length (mm) of coho salmon caught in the Canadian commercial gillnet fishery on the Stikine River, 28 July to 17 August, 1985	48
18.	Age composition and average length (mm) of coho salmon caught in the Canadian gillnet test fishery on the Taku River, 1985	49
19.	Peak escapement estimates for coho salmon in Southeastern Alaska, 1985	51
20.	Average adult escapement for 1977 through 1984 escapements to index streams in Southeastern Alaska, 1985	52
21.	Run timing of coho salmon through weirs in Southeastern Alaska, 1985	55
22.	Age composition of coho salmon in the escapements to Southeastern Alaska, 1985	56
23.	Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985	65
24.	Comparison of coho salmon age composition between years 1982, 1983, 1984, and 1985 for selected Southeastern Alaska escapements	76
25.	Age composition and average length (mm) of outmigrating coho smolt from Salmon Lake (Stream No. 113-41-032), 1985	77

LIST OF FIGURES

Figure		Page
1.	Map of Southeastern Alaska showing the statistical fishing districts and four areas used for analysis of the troll data	2
2.	Percentage of total troll harvest by week in Southeastern Alaska, 1985, as compared to the 1980 through 1984 average	13
3.	The 1985 troll harvest of coho salmon in Southeastern Alaska by week, as compared to the 1980 through 1984 average catch by week	14
4.	Regional troll openings and closures for years 1981 to 1985	15
5.	Mean freshwater age of coho salmon harvested in selected Southeastern Alaska troll and gill net fisheries for the years 1969, 1970, 1982, 1983, 1984, and 1985	27
6.	Average winter (November to February) air temperatures in Juneau, Alaska from 1922 to 1985	28
7.	Age composition of the Southeastern Alaska troll harvest of coho salmon by area in 1983, 1984, and 1985	32
8.	Average length at age for coho salmon harvested in the Southeastern Alaska troll fishery by area in 1983, 1984, and 1985	36
9.	Average weight of coho salmon harvested in the Southeastern Alaska troll, seine, gill net, and trap fisheries 1983, 1984, and 1985	37
10.	Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district in 1983, 1984, and 1985	40
11.	Age composition of the Southeastern Alaska gill net harvest of coho salmon by district in 1983, 1984, and 1985	46
12.	Mean freshwater age of coho salmon sampled in escapements at selected Southeastern Alaska lakes and rivers for the years 1982, 1983, 1984, and 1985	74

LIST OF APPENDICES

Appendix Table		Page
APPENDIX A - Abundance, Age, Sex, and Size Data		
A1.	Sample size needed to described the age composition of a three-age class population of increasing size with an accuracy of ±5% and a precision of 0.10	82
A2.	Number, average length (mm) and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985	83
A3.	Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985	100
A4.	Number, average length (mm) and standard error of mean of coho salmon sampled from gill net gear by district, sex, week, and age, 1985	112
A5.	Number, average length (mm) and standard error of mean of coho salmon sampled from Canadian commercial gillnet fishery on the Stikine River by week, sex, and age, 1985	129
A6.	Number, average length (mm), and standard error of mean of coho salmon sampled from the Canadian test fishery on the Taku River by week, sex, and age, 1985	131
A7.	Hugh Smith Lake (Stream No. 101-30-075) weir counts of non-jack coho salmon, 1985	134
A8.	Karta River (Stream No. 102-60-087) weir counts of non-jack coho salmon, 1985	137
A9.	Klawock River (Stream No. 103-60-047) weir counts of non-jack coho salmon, 1985	139
A10.	Warm Chuck Lake (Stream No. 103-80-031) weir counts of non-jack coho salmon, 1985	142
A11.	Salmon Bay Lake (Stream No. 206-41-010) weir counts of non-jack coho salmon, 1985	144
A12.	Crystal Creek (Crystal Lake Hatchery)(Stream No. 106-44-031) weir counts of non-jack coho salmon, 1985	145
A13.	Sashin Creek (Stream No. 109-10-006) weir counts of wild non-jack coho salmon, 1985	148
A14.	Falls Lake (Stream No. 109-20-013) weir counts of non-jack coho salmon, 1985	149

LIST OF APPENDICES (Continued)

Appendix Table		Page
APPENDIX A - Abundance, Age, Sex, and Size Data (continued)		
A15.	Little Tatsamenie Lake (Stream No. 111-32-254) Canadian weir counts of non-jack coho salmon, 1985	150
A16.	Hackett River (Stream No. 111-32-260) Canadian weir counts of non-jack coho salmon, 1985	152
A17.	Auke Creek (Stream No. 111-50-042) weir counts of hatchery non-jack coho salmon, 1985	154
A18.	Auke Creek (Stream No. 111-50-042) weir counts of wild non-jack coho salmon, 1985	156
A19.	Salmon Lake (Stream No. 113-41-032) weir counts of non-jack coho salmon, 1985	158
A20.	Redoubt Lake (Stream No. 113-41-043) weir counts of non-jack coho salmon, 1985	160
A21.	Ford Arm Lake (Stream No. 113-73-003) weir counts of non-jack coho salmon, 1985	161
A22.	Chilkat Lake (Stream No. 115-32-032) weir counts of non-jack coho salmon, 1985	163
A23.	Chilkoot Lake (Stream No. 115-33-030) weir counts of non-jack coho salmon, 1985	164
A24.	Hugh Smith Lake (Stream No. 101-30-075) weir counts of non-jack coho salmon, 1985	166
A25.	Warm Chuck Lake (Stream No. 103-80-031) weir counts of jack coho salmon, 1985	168
A26.	Crystal Creek (Crystal Lake Hatchery) (Stream No. 106-44-031) weir counts of jack coho salmon, 1985	170
A27.	Auke Creek (Stream No. 111-50-042) weir counts of hatchery jack coho salmon, 1985	172
A28.	Auke Creek (Stream No.111-50-042) weir counts of wild jack coho salmon, 1985	175
A29.	Salmon Lake (Stream No. 113-41-032) weir counts of jack coho salmon, 1985	176
A30.	Ford Arm Lake (Stream No. 113-73-003) weir counts of jack coho salmon, 1985	178

LIST OF APPENDICES (Continued)

Appendix Table		Page
APPENDIX B -	Separability of Wild and Hatchery Stock Coho Salmon Based on Analysis of Scale Patterns	181
B1.	Number of scales digitized from wild stock coho salmon escapements, 1985	183
B2.	Scale pattern variables considered for possible inclusion in linear discriminant function analysis models for age 1.1 wild and hatchery coho salmon, 1985	184
B3.	Group means (x) and standard error (SE) of basic scale variables between age 1.1 coho salmon sampled from wild and hatchery stocks, 1985	185
B4.	Classification accuracies for linear discriminant function models of wild and hatchery age 1.1 coho salmon, 1985 data	186

Appendix Figure		
B1.	Frequency distribution of width across freshwater growth zones (scale variable #66) measured from Southeastern Alaska wild and hatchery coho salmon scales	187

ABSTRACT

Catch statistics and escapement estimates are summarized for coho salmon (*Oncorhynchus kisutch* Walbaum) in Southeastern Alaska (excluding the catches and escapements in Districts 182, 183, 185, and 192 near Yakutat) for the 1985 season. Commercial troll, seine, and gill net catches were apportioned by age and size based on available sample data. The age and size composition of the 1985 troll harvest was summarized by sampling period for four areas of Southeastern Alaska. Age, sex, and size data are also presented for the Canadian inriver gill net fishery on the Stikine River, the test fishery on the Taku River and for escapements to 15 rivers and 3 hatcheries in the region. A total of 2,231,243 coho salmon were commercially harvested in Southeastern Alaska during the 1985 summer troll, seine, gill net, and trap fisheries. The hand and power troll fishery catch of 1,472,242 fish represented 66.0% of the total harvest and most of the fish were caught in offshore waters. Purse seine fishermen harvested 422,660 fish and gill net fishermen harvested 332,801 fish. The sport harvest was 53,339 fish. Smaller harvests were taken by: (1) the Canadian commercial gill net fisheries on the Stikine River and Taku River (2,172 and 1,770 fish) respectively, (2) the Annette Island Fishery Reserve fish traps (3,540 fish), and (3) Alaskan subsistence fishermen (363 fish).

Small differences in the age and size composition of coho salmon commercially harvested by gear type, area, and time were found. Fish aged 1.1 and 2.1 dominated the catches in all areas and fisheries; however, fish aged 3.1 and 4.1 made up a greater portion of the harvest than in 1983 and 1984. Coho salmon harvested in 1969 and 1970 tended to smolt at an older age than those harvested in the past four years, but the 1985 harvest had an older average age than those returning in the three previous years. The growth of fish inseason was evident by increasing average lengths of coho salmon in successive samples. Fish aged 3.1 tended to (NSC: nonstatistical comparison) have a larger average length than fish aged 2.1 and 1.1, respectively. The average weight in 1985 was smaller than in 1984 but slightly heavier than in 1983 (NSC).

Fish aged 1.1 dominated samples from the 3 hatcheries. Fish aged 1.1, 2.1, 3.1, and 4.1 dominated the samples from the 15 wild stock escapements. The mean freshwater age for escapements in 1985 was 0.7 years older than in the two previous years. The mean date of fish passage through weirs, which were operated to count coho salmon, ranged from 23 September to 2 October. Measurable differences in scale patterns between wild and hatchery fish were found.

KEY WORDS: catch allocation, age composition, migratory timing, coho salmon, *Oncorhynchus kisutch*, fishery synopsis, catch and escapement.

INTRODUCTION

Coho salmon (*Oncorhynchus kisutch* Walbaum) were harvested in commercial, sport, and subsistence fisheries in Southeastern Alaska (Alexander Archipelago). The study area consists of the coastal waters and inland drainages of Southeastern Alaska from Cape Suckling on the north to Dixon Entrance on the south, excluding the Yakutat Area inshore set net fisheries in Districts 182, 183, 185, and 192 (Figure 1). Riffe et al. (in press) presents the data on Yakutat area harvests and escapements in 1985. The region is divided into 17 coastal (101 thru 116 and 181) and five offshore (152, 154, 156[1], 157 and 189) fishing districts.

Most coho salmon harvested by Southeastern Alaska commercial fishermen originate from one of the estimated 2- to 3-thousand coho salmon producing streams or from one of the 10 hatcheries in the region. A few non-Alaskan fish are also intercepted, most originating from rivers or hatcheries in Northern British Columbia, however, some originating as far south as Oregon.

Prior to 1982 the collection of scales was minimal depending on the specific needs of certain projects. Since 1982 the department has collected scales from harvests and escapements to compile a data base for future comparisons. This report is the fourth in a continuing study conducted by the department to define the age-sex-length structure based on the magnitude, distribution, and timing of the runs from both the harvest and escapements of coho in the region (Mesiar 1984; Van Alen and Wood 1986; Wood and Van Alen 1987). Gray, Koerner, and Marriott (1981) summarized Southeastern Alaska coho salmon age, length, and weight data collected in 1969 and 1970.

With production increasing each year in the region from government and private non-profit hatcheries, there is a need for basic knowledge collected from wild and hatchery stocks. This information will be used to determine if the department can separate wild from hatchery stocks by using scale pattern analysis (Appendix B). Harvest determination of wild and hatchery stocks is crucial for the inseason management of the fisheries. This will possibly enable fisheries managers to protect the wild stock from overexploitation and to harvest the hatchery production to the fullest extent under existing regulations.

Copies of inseason emergency orders, management plans, and board reports which summarize the troll and net fishing seasons in 1985 may be obtained from the Alaska Department of Fish and Game (Division of Commercial Fisheries, P.O. Box 20, Douglas, AK 99824-0020). A complete summary of regulations affecting the fisheries of Southeastern Alaska may be found in ADF&G (1985).

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1 Prior to 1985, reported to District 116-25.

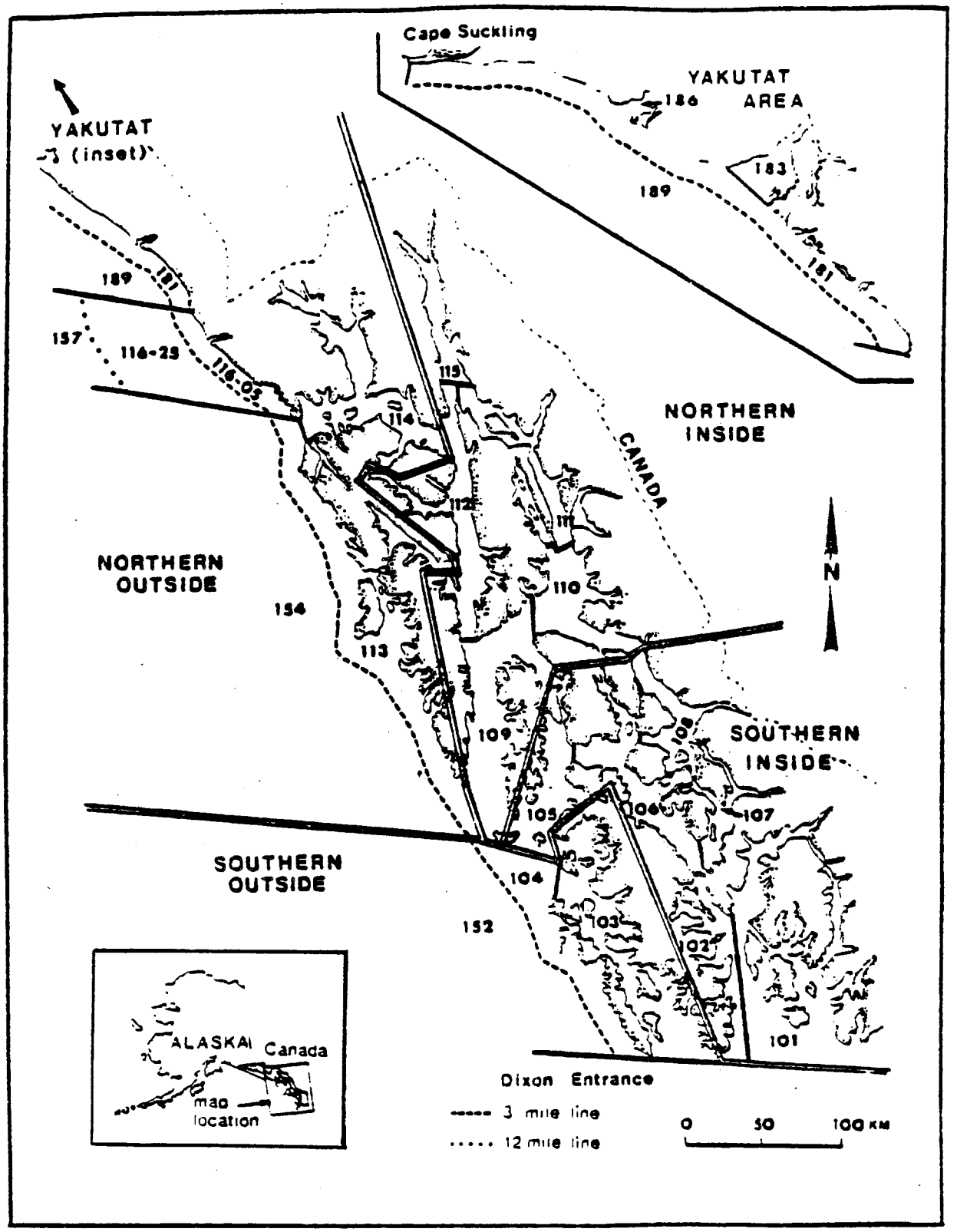

Figure 1. Map of Southeastern Alaska showing the statistical fishing districts and four areas used for analysis of the troll data.

METHODS

Catch Statistics

Alaskan commercial catch data used in this report (number and total weight of coho salmon sold by gear type, district, and week) were compiled by the Division of Commercial Fisheries, Alaska Department of Fish and Game (ADF&G). These data are based on computer tabulations of individual sales slips (fish tickets) as of 16 September 1986. Because of the possibility that all embedded data entry or recording errors have not been corrected, later summaries may differ slightly from those used in this report.

Such errors are too small to be of consequence to our allocations of commercial catches by gear type, area, or time. The average weights of troll caught fish were based on dressed (gilled and gutted) fish. Since the seine and gill net fisheries land both dressed and round fish, average weight may not be an accurate indicator of size by area or time.

Canadian commercial fishery catch statistics for the Stikine and Taku Rivers were provided by the Canadian Department of Fisheries & Oceans, Whitehorse staff. Sport catch data were obtained from Mills (1986) and was based on response from a mailout questionnaire survey of randomly selected residents holding sport fishing licenses. Subsistence catch information was tabulated from subsistence use permits returned to the Alaska Department of Fish and Game. All subsistence permits were not returned, however, so the reported subsistence catch totals listed in this report underestimate the total subsistence harvest from the region.

Escapement Counts

Several methods were used to obtain estimates of spawning population size. Counts were made from airplanes, helicopter and boats, foot surveys, and at weirs. Multiple surveys were made on several streams but only the peak counts for streams with 25 or more coho salmon enumerated are reported. The mean date of migration and associated migratory timing statistics were calculated for coho salmon passing through weirs using the methods of Mundy (1984).

Age, Sex, and Size

Troll, seine, and gill net catches of coho salmon were sampled by department employees stationed at the Southeastern ports of Ketchikan, Craig, Wrangell, Petersburg, Sitka, Pelican, Juneau, Hoonah, Excursion Inlet, and Yakutat. Sampling was also conducted at several smaller buying stations, aboard tenders and aboard troll vessels participating in the chinook salmon mortality assessment program (Davis et al. 1986). Sampling was conducted on fish landed by tender for both the net and troll fisheries and from landings of individual boats. Three scales were obtained from the preferred area (INPFC 1963) of each fish, mounted on gum cards, and impressions made in cellulose acetates (Clutter and Whitesel 1956). Age was determined by visual examination of scale impressions under moderate (40X) magnification. Ages are reported in European notation.

In 1985 there was a study conducted to determine the applicability of scale pattern analysis to define the differences between wild and hatchery stocks in the commercial fisheries. The study and analysis is presented in Appendix B.

Lengths were measured from mid-eye to fork of tail in the nearest half-centimeter. Sex was determined by examination of external dimorphic maturation characteristics. Sexes are presented for all fish sampled from escapements and seine and gill net catches (see appendix tables) but not for troll caught fish. The absence of obvious secondary sexual characteristics in "ocean bright fish", as compared to "bright fish" with the presence of secondary sexual characteristics, precluded making accurate sex determinations for troll caught fish. Difficulties were encountered in representatively sampling the commercial catch because sampling occurred at processing facilities where fish were usually sorted by size: (usually small $\leq$ 3.2 kg or 7 lbs, and large $\geq$ 3.2 kg) and quality (two grades) into different bins. To avoid obtaining biased samples if the entire delivery could not be sampled, fish were either sampled from each bin in proportion to abundance or sampled at a predetermined set frequency among the fish sorted.

Analysis Strata

Several factors were used in the development of sampling strata for age, sex, and size data: (1) the logistic and cost considerations and tradeoffs required to obtain samples over such a broad geographic region: (2) the need to separate principle gear types (troll, seine, gill net, and sport) and enable examination of the data for temporal trends; and (3) the need to maintain a one-in-ten chance that the estimate of the age composition of each strata did not exceed plus or minus 5% of the true value. We used the equations of Cochran (1977), corrected for finite population size as appropriate (Appendix Table A1) and assumed the presence of three age classes to compute the desired sample size for each time/area strata.

Troll:

While catch by district is recorded on sales slips, the accuracy of this data is suspect since only one district can be reported for each landing, and trollers often fish more than one district in between landings. For example, a popular troll fishing area is Cross Sound, and boats fishing in this area may actually fish in Districts 113, 114, and 116. Based upon the results of skipper interviews, conducted for coded-wire tag and fishery performance data collection, there were four areas identified for Southeastern in which only minor cross-area reporting occurs. The four areas (Figure 1) are: (1) Northern Outside composed of Districts 113, 114, 116, 154, 156, 157, 181, and 189; (2) Southern Outside composed of Districts 103, 104, and 152; (3) Northern Inside composed of Districts 109, 110, 111, 112, and 115; and (4) Southern Inside composed of Districts 101, 102, 105, 106, 107, and 108. Also provided is the catch data reported by district, but the reader is cautioned in the use of this data due to the cross-district reporting problem. Catches by hand and power troll gear were combined for analysis of age, sex, and size data.

The number of coho salmon caught in each area were apportioned using the sample age composition proportions. Whenever sample sizes permitted, the data

were stratified over time into sampling periods. Since the age composition of coho salmon catches can change throughout the migratory season, the grouping of samples into sample periods was a compromise between obtaining the number of samples necessary to obtain a reasonably precise age composition and reducing the bias inherent in grouping the sample periods. Standard error of the percent of fish sampled by period for each age class were calculated by standard binomial formulas. The age composition and associated standard error of the total commercial catch by area was calculated by weighting the estimated sample age distribution and its standard error for each sampling period by the total commercial catch reported during that same sample period (Wood and Van Alen 1987). Mean length and its standard error of the sampled coho salmon were calculated for each area, period, and age class. In determining average weight there were no statistical formulas used. It was determined by dividing the total weight by the total reported catch for each district and gear group.

Seine, Gill Net, and Canadian Inriver Gill Net:

Sampling of coho salmon harvested by seine and gill net gear was intended to accurately describe the age composition of the season's catch by gear type and district. Samples were generally obtained weekly from each open district. However, sample sizes, particularly for seine and gill net fisheries, resulted in age composition estimates with a precision less than desired. In most districts, the seine and gill net fleets harvest coho salmon incidentally to other salmon species, hence individual vessel landings and season total catches were low. The low abundance of coho salmon in catches, and the tendency for vessel owners to market them separately, made it difficult to access the catch for sampling. The principal reason for small sample size, however, was low sampling effort. Catch data for these net fisheries was considered reasonably accurate by district and statistical week. Some deliveries included catches from more than one district and week, however, i.e. during the peak of the pink salmon run most districts are open and little time separates the weekly openings, particularly in the seine fishery.

Escapement:

The high cost associated with access to coho salmon spawning grounds and the comparative scarcity of fish negatively impacted the precise characterization of age, sex, and size composition of most of the more than 2,000 coho salmon spawning populations in the Southeast Region. The age, sex, and size composition of escapements for 15 wild and 3 hatchery runs were sampled. Fish were counted as they passed through weirs in nine of these systems. Weirs were operated specifically for enumeration and sampling of wild coho salmon on six of these systems, while counts through the other three weirs were curtailed at the end of the sockeye salmon *(O. nerka)* runs.

RESULTS AND DISCUSSION

Harvest Statistics

Data from several sources on the number, weight, age, sex, and size composition of coho salmon catches in Southeastern Alaska in 1985 are

summarized. Also summarized are data for 1969 and 1970 (Gray et al. 1981), 1982 (Mesiar 1984), 1983 (Van Alen and Wood 1986), and 1984 (Wood and Van Alen 1987) in the comparison of age and size composition between years.

Numbers and Landed Weight:

A total of 2,288,887 coho salmon were harvested in commercial, sport, and subsistence fisheries in 1985 (Table 1). Ocean commercial gear accounted for most of the harvest (97.5%), followed by the sport fishery (2.3%), the Canadian inriver gill net fishery on the Stikine River (0.1%), and the Taku River (0.1%). Small catches (<.019) were reported by domestic subsistence fisheries. Trollers harvested 66.0% of the 2,231,243 fish harvested by U.S. fishermen with smaller catches by seine (18.9%), gill net (14.9%), and trap (0.2%) gear, respectively (Table 2). The average weight of all coho salmon commercially caught was 3.4 kg (7.6 lb), averaging from 3.3 kg (7.2 lb) for troll and trap gear to 3.5 kg (7.8 lb) for seine, and 4.2 kg (9.1 lb) for gill net gear (Table 2).

Troll. The troll fishery harvested 1,472,242 coho salmon (Table 3) with 56.5% of the catch coming from Districts 113, 114, and 116. Peak catch of 217,557 came in the opening week of the fishery (01 July to 06 July) which accounted for 14.8% of the total catch. The catches of 213,430 and 180,583 in the third and fourth week of the fishery accounted for 26.8% of the total catch. The first 4 weeks of the troll fishery accounted for 51.3% of the total coho salmon harvest. The peak catches previously seen in August, just before the troll closure, did not materialize (Figures 2 and 3). This may have resulted from year to year changes in management which make comparisons difficult. For the past 4 years the department has had different starting dates for the troll fishery (Figure 4). The average weight of coho salmon increased almost 1.1 kg (2.5 lb) during the troll season (Table 3).

Seine. The purse seine catch of 422,660 coho salmon (Table 4) occurred primarily in Districts 101 and 104 where 25.4% and 30.6%, respectively of the catch was taken. Catches were highest in Districts 113 and 114 in mid to late July; District 110 in late July to early August; District 104 and 112 in early to mid August; Districts 101, 103, 105, and 109 in mid August; District 102 in late August. Overall, catches peaked during the third week of August (18 to 24 August).

Gill Net. The gill net catch was 332,801 coho salmon (Table 5). Catches were significant in all districts except District 102, which is managed for pink salmon harvests. Districts 106 and 115 accounted for 58.9% of the harvest with District 101 accounting for another 22.9%. Catches peaked in District 101 and 106 in late August; District 108 in early September; Districts 111 and 115 in the second week of September. The average weight of coho salmon caught by gill net gear increased approximately 2.3 kg (5.2 lb) through the season. The fishing of nets with larger mesh sizes late in the season (fall gear) probably decreases the interception of smaller fish, making samples from this fishery unreliable for seasonal growth.

Trap. The four fish traps operating in the Annette Island Indian Fishery Reserve caught 3,540 coho salmon (Table 6). More than one-half (51.7%) of these fish were harvested between 11 August and 7 September with a peak catch in the week of 25 August (the second to the last week of the fishery).

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

Fishery	Number	Percent
Ocean Commercial		
Troll	1,472,242	64.3
(Hand = 223,866, Power = 1,248,376)		
Seine	422,660	18.5
Gillnet	332,801	14.5
Trap	3,540	0.2
Subtotal	2,231,243	97.5
Sport	53,339	2.3
Subsistence	363	<0.1
Canadian Transboundry		
Taku Commercial	1,770	0.1
Stikine Commercial	2,172	0.1
Subtotal	3,942	0.2
Total	2,288,887	100.0

Table 2. Commercial harvest of coho salmon in Southeastern Alaska by gear type and district in numbers, weight (pounds), and average weight, 1985.

	Number of Fish				
District	Troll	Purse Seine	Gillnet	Trap	Total
101	85,958	107,510	76,213	3,540	273,221
102	30,568	50,686	47		81,301
103	100,310	48,117			148,427
104	165,470	129,183			294,653
105	26,990	4,468			31,458
106	8,535	5,122	97,637		111,294
107	1,168	5			1,173
108	238		5,132		5,370
109	58,058	21,367			79,425
110	13,226	10,314			23,540
111	793		55,407		56,200
112	11,656	25,825			37,481
113	606,827	15,749			622,576
114	112,375	4,314			116,689
115	1,992		98,365		100,357
116	112,881				112,881
152	1,733				1,733
154	27,195				27,195
157	3,922				3,922
181	70,243				70,243
189	32,104				32,104
Total	1,472,242	422,660	332,801	3,540	2,231,243
Percent	66.0	18.9	14.9	0.2	100.0

-Continued-

Table 2. Commercial harvest of coho salmon in Southeastern Alaska by gear type and district in numbers, weight (pounds), and average weight, 1985 (continued).

	Weight				
District	Troll	Purse Seine	Gillnet	Trap	Total
101	597,154	876,897	618,719	25,579	2,118,349
102	211,457	391,785	417		603,659
103	689,603	393,828			1,083,431
104	1,119,428	948,926			2,068,354
105	190,543	35,584			226,127
106	68,253	40,717	805,143		914,113
107	7,748	40			7,788
108	1,757		47,610		49,367
109	393,715	161,024			554,739
110	87,324	71,579			158,903
111	5,307		550,127		555,434
112	86,847	199,547			286,394
113	4,396,477	123,449			4,519,926
114	916,833	32,850			949,683
115	16,754		993,478		1,010,232
116	857,792				857,792
152	12,424				12,424
154	187,707				187,707
157	28,453				28,453
181	518,127				518,127
189	262,243				262,243
Total	10,655,946	3,276,226	3,015,494	25,579	16,973,245

-Continued-

Table 2. Commercial harvest of coho salmon in Southeastern Alaska by gear type and district in numbers, weight (pounds), and average weight, 1985 (continued).

	Average Weight				
District	Troll	Purse Seine	Gillnet	Trap	Total
101	6.9	8.2	8.1	7.2	7.8
102	6.9	7.7	8.9		7.4
103	6.9	8.2			7.3
104	6.8	7.3			7.0
105	7.1	8.0			7.2
106	8.0	7.9	8.2		8.2
107	6.6	8.0			6.6
108	7.4		9.3		9.2
109	6.8	7.5			7.0
110	6.6	6.9			6.8
111	6.7		9.9		9.9
112	7.5	7.7			7.6
113	7.2	7.8			7.3
114	8.2	7.6			8.1
115	8.4		10.1		10.1
116	7.6				7.6
152	7.2				7.2
154	6.9				6.9
157	7.3				7.3
181	7.4				7.4
189	8.2				8.2
Total	7.2	7.8	9.1	7.2	7.6

Table 3. Troll harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985.

Catch by District

Date	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116 1/	152	154	157	181	189	Total
7/01-7/06	863	1,451	6,674	29,580	2,201	56	17	4	6,113	564	3	1,288	147,270 9/	3,303	179	5,179	0	8,166	514	3,020	1,112	217,557
7/07-7/13	9,529	4,862	10,079	33,866	3,801	239	31	47	6,468	2,075	88	705	56,095	4,329	309	8,417	0	2,936	313	30	101	144,320
7/14-7/20	18,642	8,458	14,961	31,177	2,323	377	679	25	4,895	3,381	116	897	97,210	9,963	254	15,404	400	2,754	598	916	0	213,430
7/21-7/27	15,346	3,459	15,003	12,196	804	723	0	0	6,739	2,843	110	494	86,946	9,117	30	18,680 14/	52	3,721	1,809	2,511	0	180,583
7/28-8/03	13,427	2,280	10,149	11,057	5,258	191	109	26	4,375	1,489	0	278	54,797	9,089	0	16,358	885	6,709	0	21,604	800	158,881
8/04-8/10	6,622	2,480	13,469	11,821	2,480	614	46	20	11,562	386	23	786	32,764	5,521	0	9,798	0	248	0	14,392	2,678	115,710
8/11-8/14	9,599 2/	3,680 4/	15,436 5/	9,446	2,995	1,175	26	0	11,906	1,047 8/	400	689	44,443 10/	4,254	20	2,597	0	1,547	250	7,711	3,612	120,833
8/25-8/31	3,838	1,834	9,700	16,063	1,790	2,291	120	116	2,207	835	1	2,592	45,854	23,005	42	13,192	0	258	0	5,319	4,508	133,565
9/01-9/07	2,914	1,345	3,053	7,666	3,148	1,432	44	0	2,098	284	46	1,766	29,700 11/	20,468	6	12,386	0	856	0	7,720	11,357	106,289
9/08-9/14	2,491	349	1,394	2,251	1,043	810	0	0	805	160	6	965	7,206	17,038	818	5,742	396	0	0	5,773	4,401	51,648
9/15-9/20	2,687 3/	370	392 6/	347	1,147 7/	627	96	0	890	162	0	1,196	4,542 12/	6,288 13/	334	5,128	0	0	438	1,247	3,535	29,426
Total	85,958	30,568	100,310	165,470	26,990	8,535	1,168	238	58,058	13,226	793	11,656	606,827	112,375	1,992	112,881	1,733	27,195	3,922	70,243	32,104	1,472,242
Percent	5.8	2.1	6.8	11.2	1.8	0.6	0.1	.0	3.9	0.9	0.1	0.8	41.2	7.6	0.1	7.7	0.1	1.8	0.3	4.8	2.2	100.0

Weight by District

Date	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116 1/	152	154	157	181	189	Total
7/01-7/06	5,303	8,408	39,304	175,579	12,046	345	100	25	38,376	3,429	16	7,188	1,001,203 9/	20,663	1,205	35,076	0	54,768	3,353	19,990	6,673	1,433,050
7/07-7/13	60,092	32,208	60,061	208,559	23,298	1,345	188	290	40,350	13,509	567	4,380	365,952	28,040	2,324	53,786	0	20,932	2,091	206	626	918,804
7/14-7/20	118,855	54,862	95,111	196,708	14,573	2,312	4,105	150	30,556	21,874	817	5,850	650,181	66,641	1,797	103,788	2,841	18,157	5,202	6,558	0	1,400,938
7/21-7/27	102,572	22,692	100,551	80,674	5,280	4,794	0	0	43,157	18,462	640	3,197	602,180	63,665	214	132,143 14/	318	26,711	11,917	16,194	0	1,235,361
7/28-8/03	86,593	15,608	71,587	77,867	35,602	1,258	647	225	28,795	9,743	0	1,946	393,835	65,147	0	117,711	5,575	43,708	0	146,747	5,571	1,108,165
8/04-8/10	48,626	17,405	93,812	84,752	17,545	4,352	305	111	82,607	2,569	125	5,370	248,376	40,325	0	71,646	0	2,156	0	101,371	19,420	840,873
8/11-8/14	71,474 2/	26,611 4/	111,353 5/	70,178	22,071	8,538	191	0	86,311	7,610 8/	2,681	5,054	349,232 10/	32,211	162	20,558	0	10,977	1,821	52,896	26,240	906,169
8/25-8/31	31,905	14,988	76,893	134,516	14,915	19,392	1,002	956	16,355	6,161	10	21,088	406,145	201,101	432	114,390	0	2,058	0	44,134	37,921	1,144,362
9/01-9/07	24,870	11,969	25,553	66,983	26,325	12,205	363	0	14,798	1,805	400	14,828	274,101 11/	186,171	62	113,372	0	8,240	0	69,610	97,593	949,248
9/08-9/14	21,298	3,149	11,849	20,407	9,656	7,692	0	0	5,971	1,071	51	7,962	65,377	157,723	7,411	51,390	3,690	0	0	48,832	39,460	462,989
9/15-9/20	25,566 3/	3,557	3,529 6/	3,205	9,232 7/	6,020	847	0	6,439	1,091	.0	9,984	39,895 12/	55,146 13/	3,147	43,932	0	0	4,069	11,589	28,739	255,987
Total	597,154	211,457	689,603	1,119,428	190,543	68,253	7,748	1,757	393,715	87,324	5,307	86,847	4,396,477	916,833	16,754	857,792	12,424	187,707	28,453	518,127	262,243	10,655,946

-Continued-

Table 3. Troll harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985 (continued).

	Average Weight by District																					
Date	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	152	154	157	181	189	Total
7/01-7/06	6.1	5.8	5.9	5.9	5.5	6.2	5.9	6.3	6.3	6.1	5.3	5.6	6.8	6.3	6.7	6.8	0.0	6.7	6.5	6.6	6.0	6.6
7/07-7/13	6.3	6.6	6.0	6.2	6.1	5.6	6.1	6.2	6.2	6.5	6.4	6.2	6.5	6.5	7.5	6.4	0.0	7.1	6.7	6.9	6.2	6.4
7/14-7/20	6.4	6.5	6.4	6.3	6.3	6.1	6.0	6.0	6.2	6.5	7.0	6.5	6.7	6.7	7.1	6.7	7.1	6.6	8.7	7.2	0.0	6.6
7/21-7/27	6.7	6.6	6.7	6.6	6.6	6.6	0.0	0.0	6.4	6.5	5.8	6.5	6.9	7.0	7.1	7.1	6.1	7.2	6.6	6.4	0.0	6.8
7/28-8/03	6.4	6.8	7.1	7.0	6.8	6.6	5.9	8.7	6.6	6.5	0.0	7.0	7.2	7.2	0.0	7.2	6.3	6.5	0.0	6.8	7.0	7.0
8/04-8/10	7.3	7.0	7.0	7.2	7.1	7.1	6.6	5.6	7.1	6.7	5.4	6.8	7.6	7.3	0.0	7.3	0.0	8.7	0.0	7.0	7.3	7.3
8/11-8/14	7.4	7.2	7.2	7.4	7.4	7.3	7.3	0.0	7.2	7.3	6.7	7.3	7.9	7.6	8.1	7.9	0.0	7.1	7.3	6.9	7.3	7.5
8/25-8/31	8.3	8.2	7.9	8.4	8.3	8.5	8.4	8.2	7.4	7.4	10.0	8.1	8.9	8.7	10.3	8.7	0.0	8.0	0.0	8.3	8.4	8.6
9/01-9/07	8.5	8.9	8.4	8.7	8.4	8.5	8.3	0.0	7.1	6.4	8.7	8.4	9.2	9.1	10.3	9.2	0.0	9.6	0.0	9.0	8.6	8.9
9/08-9/14	8.5	9.0	8.5	9.1	9.3	9.5	0.0	0.0	7.4	6.7	8.5	8.3	9.1	9.3	9.1	8.9	9.3	0.0	0.0	8.5	9.0	9.0
9/15-9/20	9.5	9.6	9.0	9.2	8.0	9.6	8.8	0.0	7.2	6.7	0.0	8.3	8.8	8.8	9.4	8.6	0.0	0.0	9.3	9.3	8.1	8.7
Total	6.9	6.9	6.9	6.8	7.1	8.0	6.6	7.4	6.8	6.6	6.7	7.5	7.2	8.2	8.4	7.6	7.2	6.9	7.3	7.4	8.2	7.2

1/ Includes fish reported to District 156 which used to be 116-25.
2/ Includes 243 fish and 2,011 pounds reported in week 34 when fishery was closed.
3/ Includes 25 fish and 211 pounds reported in week 39 when fishery was closed for the season.
4/ Includes 26 fish and 210 pounds reported in week 34 when fishery was closed.
5/ Includes 11 fish and 77 pounds reported in week 34 when fishery was closed.
6/ Includes 108 fish and 904 pounds reported in week 39 when fishery was closed for the season.
7/ Includes 900 fish and 6,926 pounds reported in week 40 when fishery was closed for the season.
8/ Includes 3 fish and 20 pounds reported in week 34 when fishery was closed.
9/ Includes 11 fish and 70 pounds reported in week 24 prior to season opening.
10/ Includes 22 fish and 141 pounds reported to trap gear.
11/ Includes 49 fish and 448 pounds reported to gillnet gear.
12/ Includes 413 fish and 3,305 pounds reported in week 40 when fishery was closed for the season.
13/ Includes 140 fish and 1,406 pounds reported in week 39 when fishery was closed for the season.
14/ Includes 15 fish and 107 pounds reported to pot gear to 50 feet.

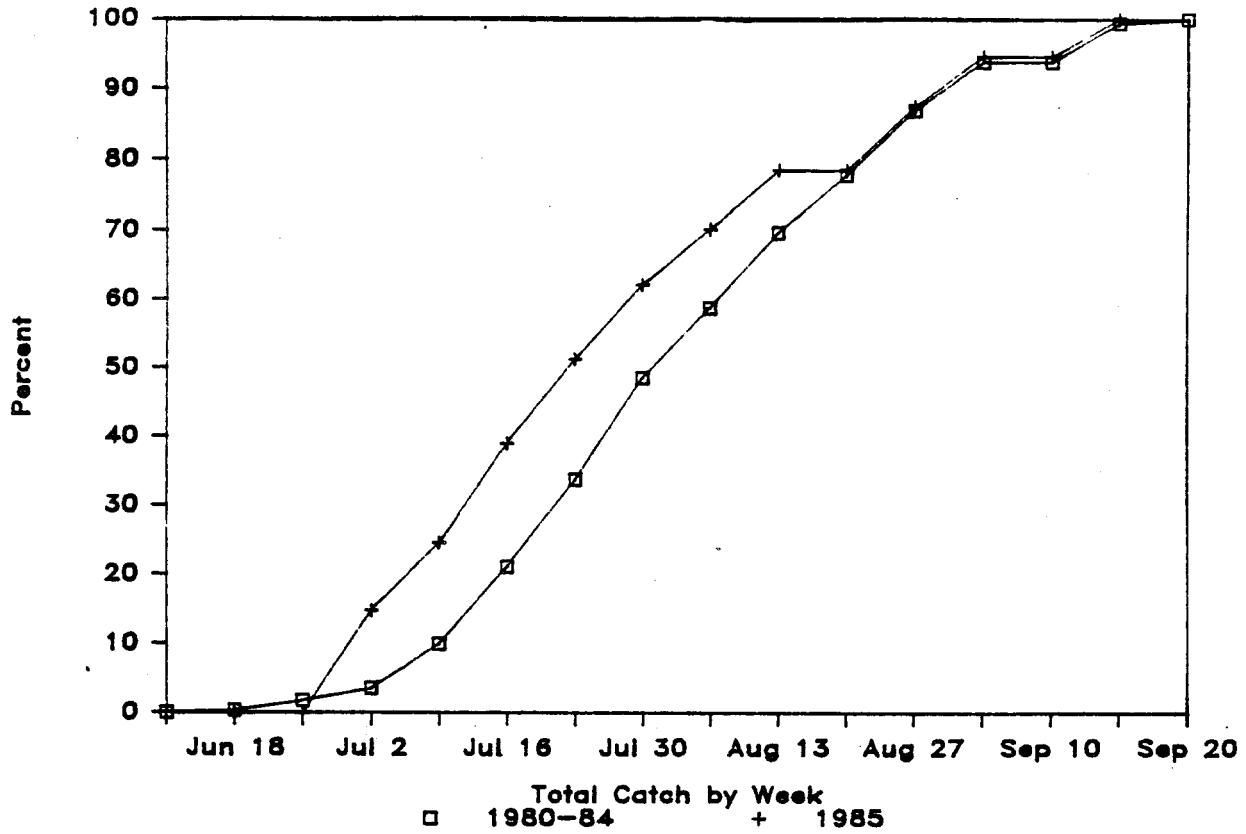

Figure 2. Percentage of total troll harvest by week in Southeastern Alaska, 1985, as compared to the 1980 through 1984 average.

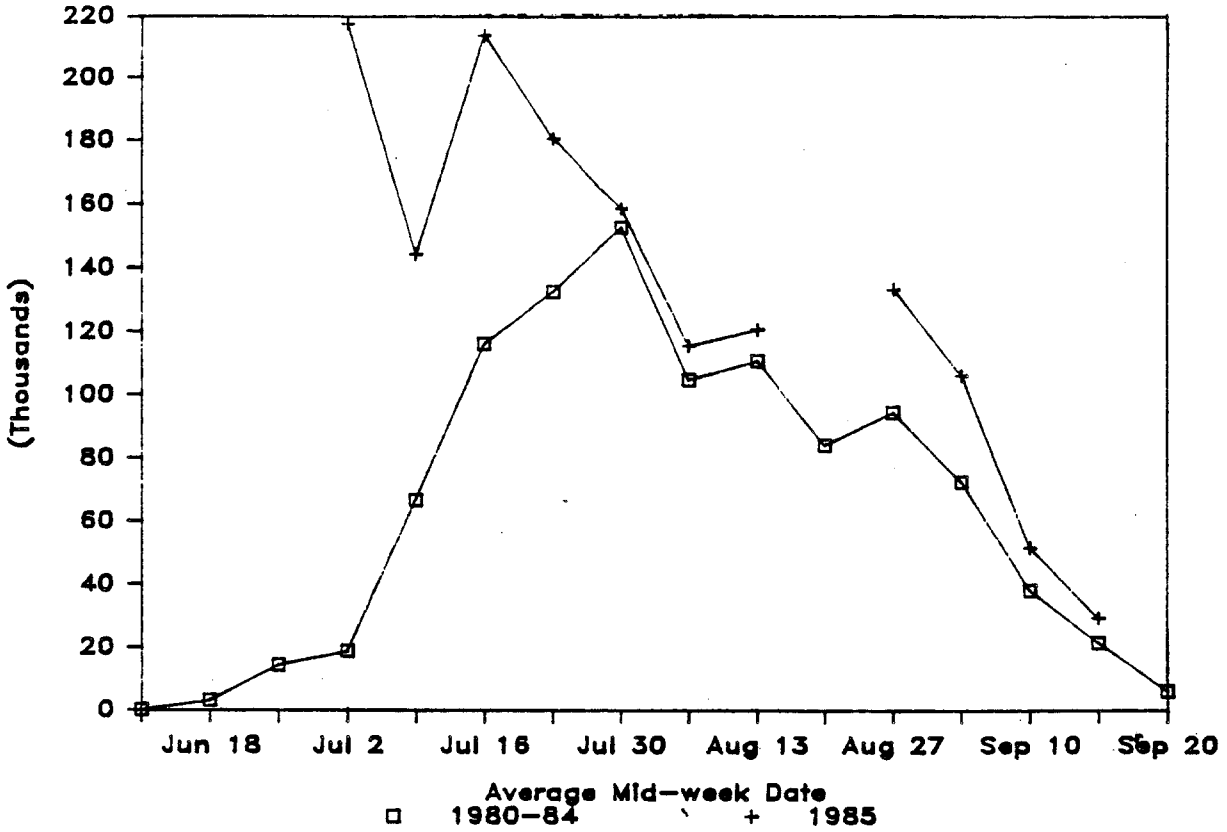

Figure 3. The 1985 troll harvest of coho salmon in Southeastern Alaska by week, as compared to the 1980 through 1984 average catch by week.

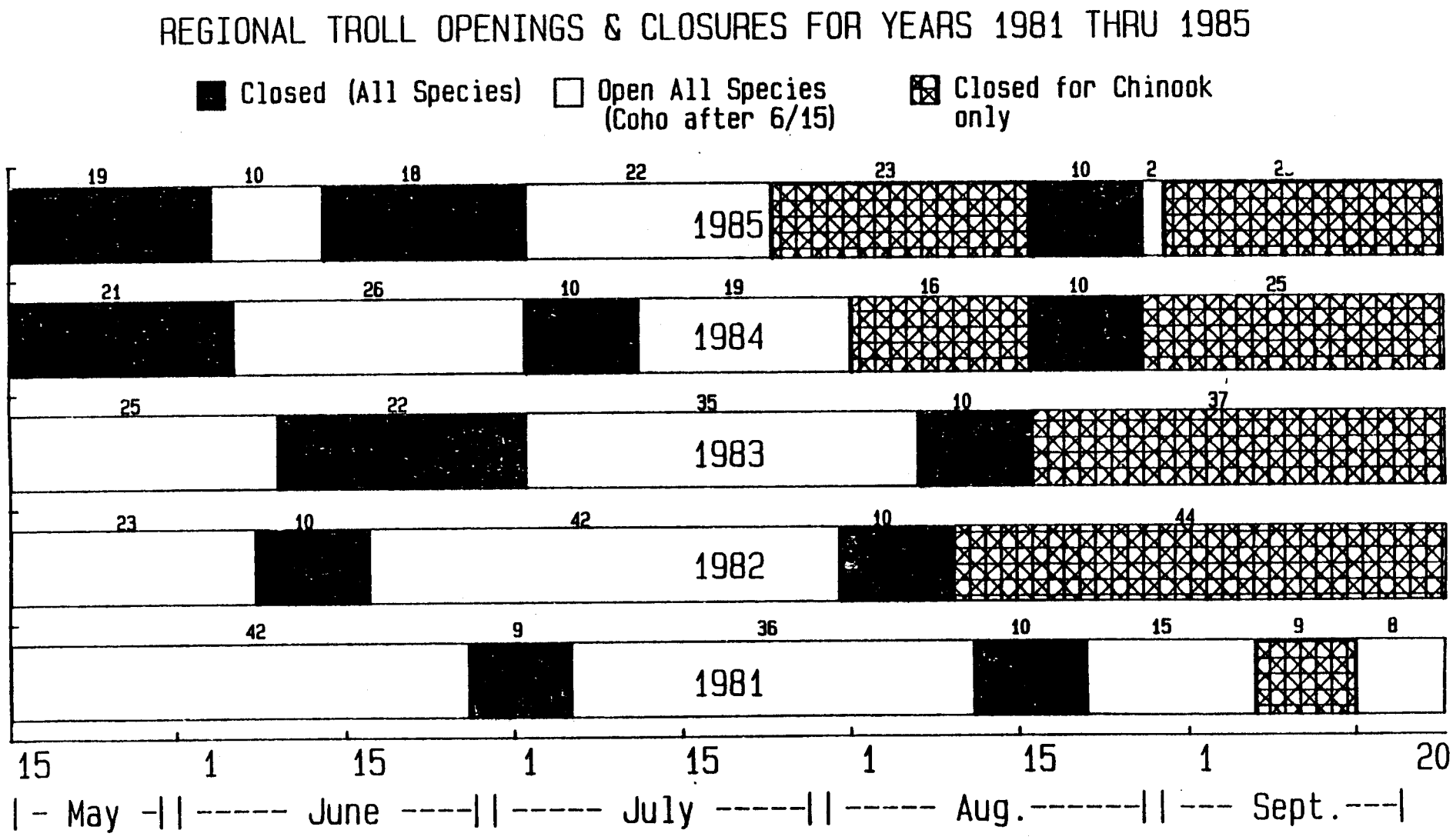

Figure 4. Regional troll openings and closures for years 1981 to 1985.

Table 4. Purse seine harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985.

Catch by District

Week	Date	101	102	103	104	105	106	107	109	110	112	113	114	Total
27	6/30-7/06										249			249
28	7/07-7/13	126			8,498						1,266			9,890
29	7/14-7/20	1,802	5,250		6,244				567	1,907	2,490	1,050 2/	626	19,936
30	7/21-7/27	2,406	2,459		17,750				1	1,880	1,383	5,244	1,142	32,265
31	7/28-8/03	3,180	1,097		17,336	83			2,188	3,429	1,968	859	644	30,784
32	8/04-8/10	7,456	8,578	95	33,135	99			2,983	2,720	4,498	2,245		61,809
33	8/11-8/17	7,341	5,322	12,624	12,274	1,084			4,348	341	3,123	2,578		49,035
34	8/18-8/24	39,636	8,091	28,766 1/	21,228	1,726			5,725	37	6,746	1,760	906	114,621
35	8/25-8/31	28,836	14,636	4,695	12,718	1,030	5,122	5	4,842		3,581	889		76,354
36	9/01-9/07	7,413	2,276	1,937		446			23		521	987	996	14,599
37	9/08-9/14	2,877	2,243						690			137		5,947
38	9/15-9/21	4,189	563											4,752
39	9/22-9/28	1,233												1,233
40	9/29-10/05	1,009	171											1,180
41	10/06-10/12	6												6
	Total	107,510	50,686	48,117	129,183	4,468	5,122	5	21,367	10,314	25,825	15,749	4,314	422,660
	Percent	25.4	12.0	11.4	30.6	1.1	1.2	.0	5.1	2.4	6.1	3.7	1.0	100.0

Weight by District

Week	Date	101	102	103	104	105	106	107	109	110	112	113	114	Total
27	6/30-7/06										2,020			2,020
28	7/07-7/13	729			52,722						8,796			62,247
29	7/14-7/20	11,070	32,157		40,420				3,899	13,224	17,950	7,649 2/	4,364	130,733
30	7/21-7/27	15,036	17,261		116,697				8	12,255	9,917	38,930	8,523	218,627
31	7/28-8/03	21,340	7,748		117,360	579			15,587	24,347	14,053	6,368	4,938	212,320
32	8/04-8/10	54,416	61,316	676	250,747	704			21,919	19,023	34,907	17,329		461,037
33	8/11-8/17	54,880	40,220	100,051	96,667	8,329			31,284	2,438	25,572	21,020		380,461
34	8/18-8/24	317,142	67,302	237,297 1/	172,322	14,130			43,820	292	53,197	15,102	6,520	927,124
35	8/25-8/31	240,008	118,570	38,916	101,991	8,020	40,717	40	39,274		28,287	7,603		623,426
36	9/01-9/07	64,892	20,495	16,888		3,822			211		4,848	8,214	8,505	127,875
37	9/08-9/14	28,524	20,040						5,022			1,234		54,820
38	9/15-9/21	46,438	5,130											51,568
39	9/22-9/28	12,339												12,339
40	9/29-10/05	10,022	1,546											11,568
41	10/06-10/12	61												61
	Total	876,897	391,785	393,828	948,926	35,584	40,717	40	161,024	71,579	199,547	123,449	32,850	3,276,226

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Table 4. Purse seine harvest of coho salmon in Southeastern Alaska by district and statistical week in numbers, weight (pounds), and average weight, 1985 (continued).

		Average Weight by District												
Week	Date	101	102	103	104	105	106	107	109	110	112	113	114	Total
27	6/30-7/06										8.1			8.1
28	7/07-7/13	5.8			6.2						6.9			6.3
29	7/14-7/20	6.1	6.1		6.5				6.9	6.9	7.2	7.3 1/	7.0	6.6
30	7/21-7/27	6.2	7.0		6.6				8.0	6.5	7.2	7.4	7.5	6.8
31	7/28-8/03	6.7	7.1		6.8	7.0			7.1	7.1	7.1	7.4	7.7	6.9
32	8/04-8/10	7.3	7.1	7.1	7.6	7.1			7.3	7.0	7.8	7.7		7.5
33	8/11-8/17	7.5	7.6	7.9	7.9	7.7			7.2	7.1	8.2	8.2		7.8
34	8/18-8/24	8.0	8.3	8.2	8.1	8.2			7.7	7.9	7.9	8.6	7.2	8.1
35	8/25-8/31	8.3	8.1	8.3	8.0	7.8	7.9	8.0	8.1		7.9	8.6		8.2
36	9/01-9/07	8.8	9.0	8.7		8.6			9.2		9.3	8.3	8.5	8.8
37	9/08-9/14	9.9	8.9						7.3			9.0		9.2
38	9/15-9/21	11.1	9.1											10.9
39	9/22-9/28	10.0												10.0
40	9/29-10/05	9.9	9.0											9.8
41	10/06-10/12	10.2												10.2
	Total	8.2	7.7	8.2	7.3	8.0	7.9	8.0	7.5	6.9	7.7	7.8	7.6	7.8

1/ Includes 9 fish and 57 pounds reported to other gear.
2/ Includes 14 fish and 97 pounds reported landed in week 24 prior to season opening.

Table 5. Gillnet harvest of coho salmon in Southeastern Alaska by statistical week in numbers, weight (pounds), and average weight, 1985.

		Catch by District							
Week	Date	101		102	106	108	111	115	Total
25	6/16-6/22	118			382		37	36	573
26	6/23-6/29	696	1/		867		129	256	1,948
27	6/30-7/06	2,780			2,020		978	1,744	7,522
28	7/07-7/13	2,989			5,683		740	1,875	11,287
29	7/14-7/20	2,525	2/		7,166		1,584	233	11,508
30	7/21-7/27	3,056			7,515		1,396	433	12,400
31	7/28-8/03	2,746		43	8,185	159	1,326	392	12,851
32	8/04-8/10	5,617			5,139		1,561	670	12,987
33	8/11-8/17	4,613	3/	4	8,031	164	7,221	1,793	21,826
34	8/18-8/24	10,006			9,198	143	4,275	3,803	27,425
35	8/25-8/31	13,212			23,800	414	5,826	6,618	49,870
36	9/01-9/07	11,540			11,179	1,932	8,942	11,844	45,437
37	9/08-9/14	8,292			5,646	1,129	10,354	27,465	52,886
38	9/15-9/21	6,543			1,592	707	8,648	18,352	35,842
39	9/22-9/28	1,471			1,220	320	2,164	14,800	19,975
40	9/29-10/05					124	226	6,321	6,671
41	10/06-10/12	9			14			1,487	1,510
42	10/13-10/19					40		243	283
	Total	76,213		47	97,637	5,132	55,407	98,365	332,801
	Percent	22.9		.0	29.3	1.5	16.6	29.6	100.0

-Continued-

Table 5. Gillnet harvest of coho salmon in Southeastern Alaska by statistical week in numbers, weight (pounds), and average weight, 1985 (continued).

		Weight by District							
Week	Date	101		102	106	108	111	115	Total
25	6/16-6/22	721			2,224		239	235	3,419
26	6/23-6/29	3,676	1/		5,081		810	1,856	11,423
27	6/30-7/06	16,921			11,998		7,231	11,884	48,034
28	7/07-7/13	18,973			34,602		4,904	13,343	71,822
29	7/14-7/20	16,339	2/		46,798		10,344	1,755	75,236
30	7/21-7/27	19,400			48,070		9,536	3,391	80,397
31	7/28-8/03	17,707		386	55,265	983	9,843	2,882	87,066
32	8/04-8/10	39,531			36,750		11,644	4,991	92,916
33	8/11-8/17	32,274	3/	31	58,192	1,062	56,110	14,167	161,836
34	8/18-8/24	77,208			76,408	1,070	40,555	31,707	226,948
35	8/25-8/31	114,271			227,511	4,135	63,267	59,746	468,930
36	9/01-9/07	103,115			111,439	19,334	100,484	119,834	454,206
37	9/08-9/14	74,303			60,271	11,345	112,600	280,835	539,354
38	9/15-9/21	67,832			16,699	5,523	95,994	198,929	384,977
39	9/22-9/28	16,355			13,724	2,648	24,046	158,287	215,060
40	9/29-10/05					1,114	2,520	70,155	73,789
41	10/06-10/12	93			111			16,707	16,911
42	10/13-10/19					396		2,774	3,170
	Total	618,719		417	805,143	47,610	550,127	993,478	3,015,494

-Continued-

Table 5. Gillnet harvest of coho salmon in Southeastern Alaska by statistical week in numbers, weight (pounds), and average weight, 1985 (continued).

		Average Weight by District						
Week	Date	101	102	106	108	111	115	Total
25	6/16-6/22	6.1		5.8		6.5	6.5	6.0
26	6/23-6/29	5.3		5.9		6.3	7.3	5.9
27	6/30-7/06	6.1		5.9		7.4	6.8	6.4
28	7/07-7/13	6.3		6.1		6.6	7.1	6.4
29	7/14-7/20	6.5		6.5		6.5	7.5	6.5
30	7/21-7/27	6.3		6.4		6.8	7.8	6.5
31	7/28-8/03	6.4	9.0	6.8	6.2	7.4	7.4	6.8
32	8/04-8/10	7.0		7.2		7.5	7.4	7.2
33	8/11-8/17	7.0	7.8	7.2	6.5	7.8	7.9	7.4
34	8/18-8/24	7.7		8.3	7.5	9.5	8.3	8.3
35	8/25-8/31	8.6		9.6	10.0	10.9	9.0	9.4
36	9/01-9/07	8.9		10.0	10.0	11.2	10.1	10.0
37	9/08-9/14	9.0		10.7	10.0	10.9	10.2	10.2
38	9/15-9/21	10.4		10.5	7.8	11.1	10.8	10.7
39	9/22-9/28	11.1		11.2	8.3	11.1	10.7	10.8
40	9/29-10/05				9.0	11.2	11.1	11.1
41	10/06-10/12	10.3		7.9			11.2	11.2
42	10/13-10/19				9.9		11.4	11.2
	Total	8.1	8.9	8.2	9.3	9.9	10.1	9.1

1/ Included in this catch is 1 fish and 7 pounds reported to other gear.
2/ Included in this catch is 3 fish and 28 pounds reported to other gear.
3/ Included in this catch is 1 fish and 6 pounds reported to other gear.

Table 6. Trap harvest of coho salmon on the Annette Island Indian Reserve, Southeastern Alaska District 101-28, in numbers, weight (pounds) and average weight, 1985.

Week	Date	Total Catch	Total Weight	Average Weight
26	6/23-6/29			
27	6/30-7/06	419	2,725	6.5
28	7/07-7/13	467	3,037	6.5
29	7/14-7/20	236	1,416	6.0
30	7/21-7/26	165	991	6.0
31	7/27-8/03	163	1,079	6.6
32	8/04-8/10	259	1,988	7.7
33	8/11-8/17	325	2,339	7.2
34	8/18-8/24	412	3,368	8.2
35	8/25-8/31	854	6,712	7.9
36	9/01-9/07	240	1,924	8.0
	Total	3,540	25,579	7.2

Sport. According to Mills (1986) the sport coho catch was 53,339 (Table 7). The largest catches occurred near Juneau (37.0%) and Ketchikan (33.3%). The early August salmon derby in Juneau target on both maturing coho salmon returning to the inside areas and on rearing chinook salmon *(O. tshawytscha)*.

Subsistence. The reported subsistence coho catch was 363 (Table 8). This is an increase from the prior years harvest due to the opening of four previously closed systems in the northern portion of the Southeast region under a Department of Law directive. The reported catch may be less than the actual take since not all permits were returned.

Canadian Inriver Gill Net. The Canadian inriver commercial gill net fisheries on the Stikine and Taku River caught 2,172 and 1,770 fish, respectively (Table 9). Catches peaked on the Taku River in mid-August and on the Stikine River in early September, however the daily catch per boat was still increasing when the fisheries ended in early September.

Age, Sex, and Size Data and Historical Comparison:

Age and size statistics are presented by area and period for the troll fishery, by district for the seine and gill net fisheries, and by river for the Canadian transboundary river fisheries. Trap, sport, and subsistence catches were not sampled. The age composition data was compared for selected Southeastern Alaska fisheries in 1985 with data from previous years (Gray et al. 1981; Mesiar 1984; Van Alen and Wood 1986; and Wood and Van Alen 1987). Coho salmon harvested in 1969, 1970, and 1985 tended to smolt at an older age than those harvested in 1983 and 1984 (Table 10, Figure 5). This shift in 1985 to an older aged fish might be related to two different factors: (1) the subsidence of "El Nino" may have abated a possible northern shift in migration routes to the Gulf of Alaska during 1983 for maturing British Columbia, Washington, and Oregon (McClain 1986); and (2) the brood years of 1979, 1980, 1982, and 1983 experienced three of the coldest mean air temperatures since 1975 (Figure 6), and this may have resulted in slower growing fish with fewer smolts attaining the threshold size for outmigration at age I (Crone and Bond 1976).

Troll. Fish aged 1.1 and 2.1 dominated the troll catches in all areas (Table 11, Figure 7, Appendix Table A2), however, fish aged 1.1 comprised a smaller proportion of the catches compared to 1984. There was a substantial increase, compared to 1984, in fish aged 3.1 and 4.1 in the northern areas (6.2%) and southern areas (4.3%). Inseason growth of fish was evident in all areas as in past years (Table 12, Figure 8). The average weight of coho salmon in 1985 decreased from the 1984 level by almost 2 pounds, but was still slightly larger than the 1983 average weight (Figure 9; NCS: nonstatistical comparison.

Seine. Fish aged 1.1 dominated seine fishery catches, (Table 13, Figure 10). In the southern districts (101-106) 48.2% were aged 1.1 and in the northern districts (109-113) 51.9% were aged 1.1. Also fish aged 3.1 and 4.1 increased 4% in the southern districts and almost a 2% increase in the northern districts. Fish aged 1.1 tended to have the smallest average length (NSC; Table 14), and females were smaller, on the average, than males (NSC; Appendix Table A3).

Table 7. Sport harvest of coho salmon in Southeastern Alaska, 1985.

Area	Number
Ketchikan	17,751
Prince of Wales Island	7,360
Petersburg-Wrangell	1,580
Sitka	3,680
Juneau	19,744
Haines-Skagway	2,888
Glacier Bay	336
	53,339

Table 8. Subsistence harvest of coho salmon by system in Southeastern Alaska, 1985 1/.

Stream Number	System	Reported Harvest
111-32-032	Taku River	35
112-17-050	Thayer Creek	40
112-67-058	Salt Lake	260
114-33-023	Neka River	7
114-34-010	Humpback Creek	6
115-32-032	Chilkat River	15
Total		363

1/ Not all permits issued were returned, reported harvest may be less than actually harvested.

Table 9. Canadian inriver harvest of coho salmon from the Taku and Stikine Rivers, 1985.

Week	Statistical Week	Taku River	Days Fished	Boats	Catch per Boat/Day	Stikine River	Days Fished	Boats	Catch per Boat/Day
6/23-6/29	26	0	1	7	0.0	0	1	9	0.0
6/30-7/06	27	1 1/	1	11	0.1	0	0	0	0.0
7/07-7/13	28	3 1/	2	11	0.1	0	3	7	0.0
7/14-7/20	29	31	2	13	1.2	0	4	8	0.0
7/21-7/27	30	134 1/	3	15	3.0	1	2	7	0.1
7/28-8/03	31	201	2	11	9.1	6	2	7	0.4
8/04-8/10	32	328	2	11	14.9	38	2	7	2.7
8/11-8/17	33	618	2	8	38.6	277	3	7	13.2
8/18-8/24	34	454	1	7	64.9	119	2	3	19.8
8/25-8/31	35					241	2	2	60.3
9/01-9/07	36					1,490 2/	1.5	7	141.9
Total		1,770	16	94	1.2	2,172	22.5	64	1.5

1/ Flood conditions.
2/ Includes 404 coho jacks.

Table 10. Comparison of coho salmon age composition between years 1969, 1970, 1982, 1983, 1984, and 1985 for selected Southeasten Alaska troll and gillnet fisheries.

Gear	District	Year	Sample Size	Percent by Age Class 1.1	2.1	3.1	4.1	Mean Freshwater Age
Troll	104	1969	868	26.7	64.4	8.9		1.82
		1970	473	16.7	70.4	11.8	1.1	1.97
		1982 1/	160	59.4	40.0	0.6		1.41
		1983 1/	981	68.1	31.0	0.8	0.1	1.33
		1984 1/	1,698	65.8	33.9	0.3		1.35
		1985 1/	1,660	52.3	43.8	3.8	0.1	1.52
Troll	114	1969	449	28.3	62.8	8.9		1.81
		1970	424	17.5	70.3	11.6	0.7	1.96
		1982	444	48.7	49.8	1.6		1.53
		1983	1,432	44.2	53.8	2.0		1.58
		1984	1,581	50.7	49.0	0.3		1.50
		1985	1,623	43.1	50.2	6.3	0.4	1.54
Gillnet	108	1969	373	42.6	54.2	2.9	0.3	1.61
		1970	220	12.7	72.2	14.6		2.02
		1982	215	37.7	58.6	3.7		1.66
		1983	65	29.2	70.8			1.71
		1984	70	52.9	47.1			1.47
		1985	127	40.2	52.0	7.1	0.8	1.69
Gillnet	111	1969	247	32.0	65.2	2.8		1.71
		1970	255	30.2	62.8	6.7	0.3	1.77
		1982	508	42.3	55.1	2.6		1.60
		1983	578	51.8	47.9	0.3		1.49
		1984	568	49.7	50.0	0.3		1.51
		1985	569	50.1	46.9	3.0		1.53

1/ Age composition from the Southern Outside area (Districts 103, 104 and 152) troll harvests.

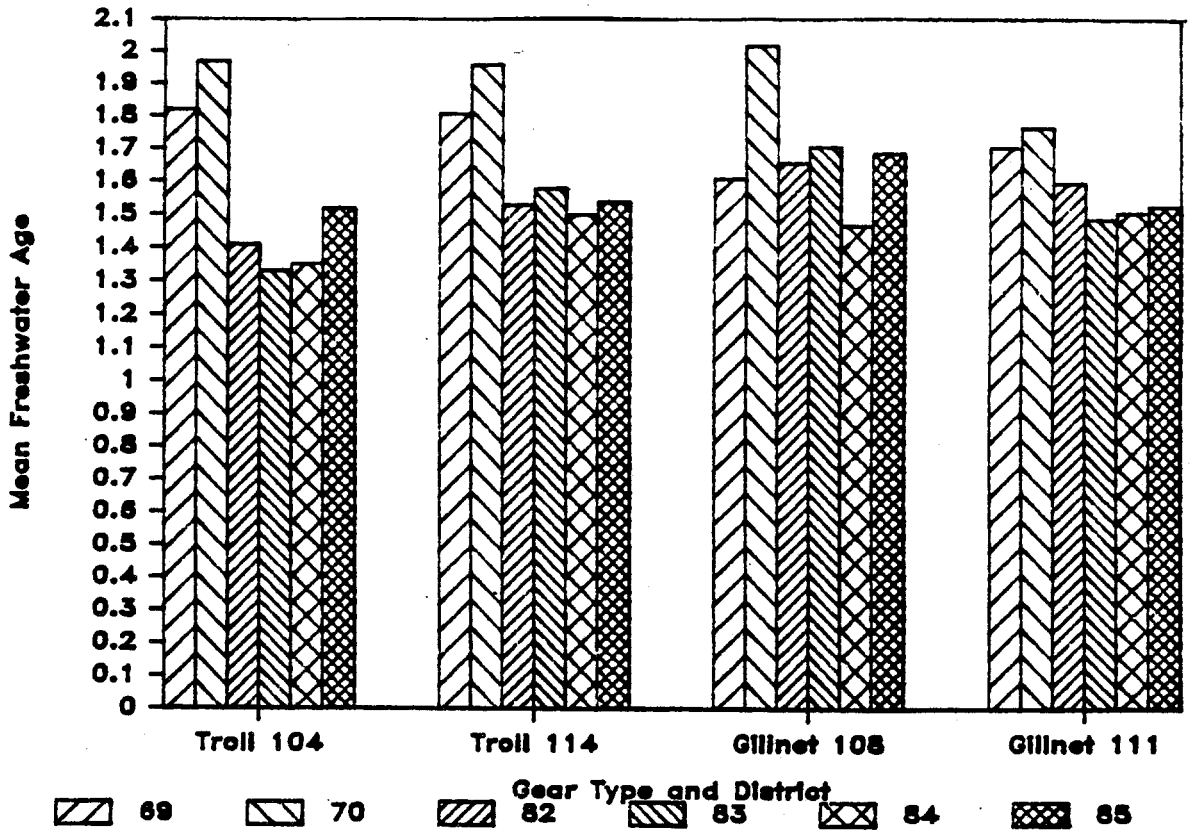

Figure 5. Mean freshwater age of coho salmon harvested in selected Southeastern Alaska troll and gill net fisheries for the years 1969, 1970, 1982, 1983, 1984, and 1985.

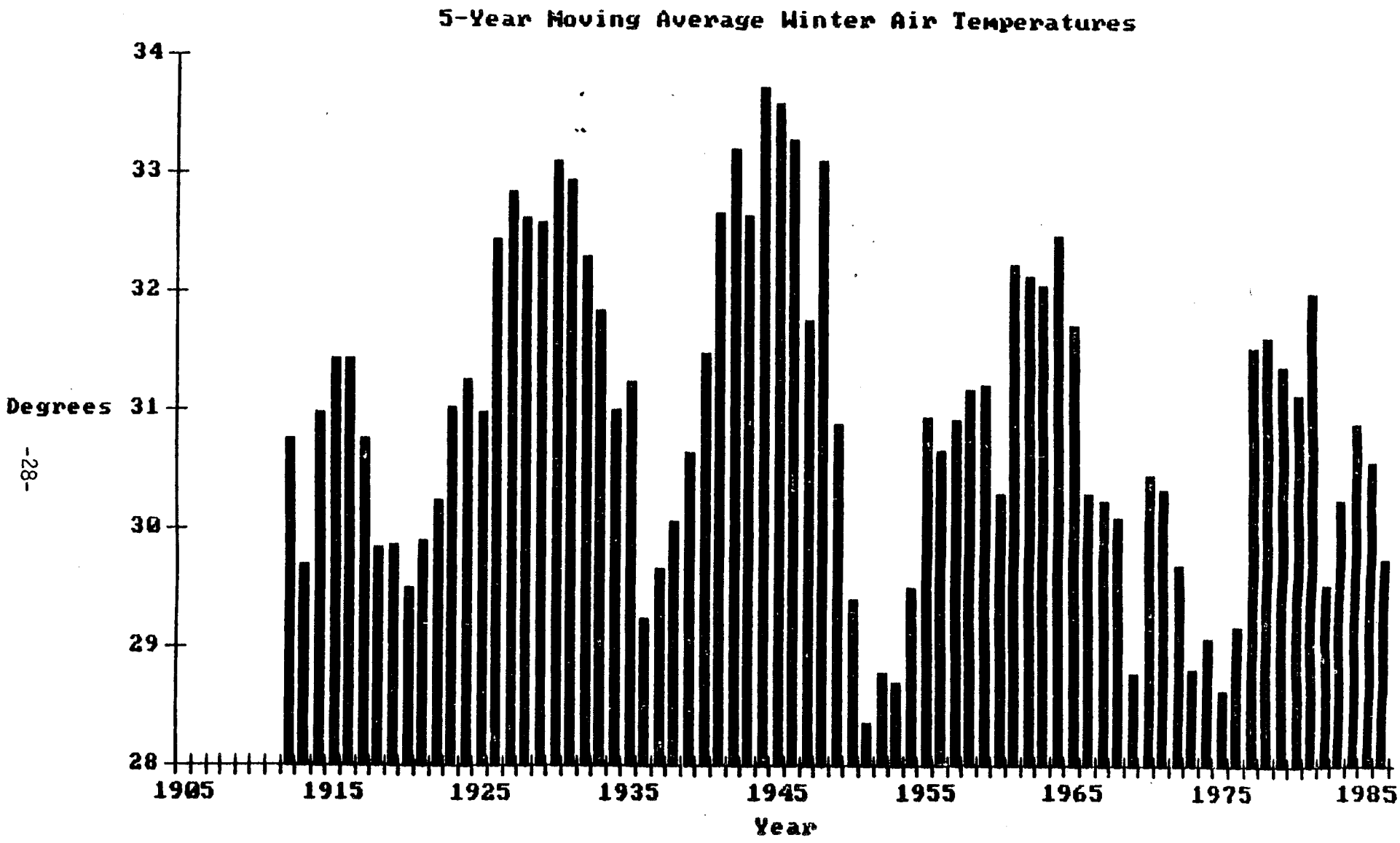

Figure 6. Average winter (November to February) air temperatures in Juneau, Alaska from 1922 to 1985.

Table 11. Age composition of the Southeastern Alaska troll fishery harvest of coho salmon by area and period, 1985.

	Brood Year and Age Class								
	1983	1982		1981			1980	1979	
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1	Total
Northern Outside									
Statistical Weeks 27 - 29 (June 30 - July 20)									
Sample Number		367			328		26	1	722
Percent		50.8			45.4		3.6	0.1	100.0
Std. Error		1.9			1.9		0.7		
Number		186,870			167,012		13,239	509	367,630
Statistical Weeks 30 - 31 (July 21 - August 3)									
Sample Number	1	408			313		20		742
Percent	0.1	55.0			42.2		2.7		100.0
Std. Error		1.8			1.8		0.6		
Number	313	127,646			97,925		6,257		232,141
Statistical Weeks 32 - 33 (August 4 - 17)									
Sample Number		411			389		38	4	842
Percent		48.8			46.2		4.5	0.5	100.0
Std. Error		1.7			1.7		0.7	0.2	
Number		63,366			59,974		5,859	617	129,815
Statistical Week 35 (August 25 - 31)									
Sample Number		420			480	1	78	4	983
Percent		42.7			48.8	0.1	7.9	0.4	100.0
Std. Error		1.6			1.6		0.9	0.2	
Number		39,366			44,990	94	7,311	375	92,136
Statistical Week 36 (Sept. 1 - 7)									
Sample Number		249			312		53	4	618
Percent		40.3			50.5		8.6	0.6	100.0
Std. Error		2.0			2.0		1.1	0.3	
Number		33,235			41,644		7,074	534	82,487
Statistical Weeks 37 - 38 (Sept. 8 - 14) Sept. 15 - 21									
Sample Number		345		2	553		73	4	977
Percent		35.3		0.2	56.6		7.5	0.4	100.0
Std. Error		1.5		0.1	1.6		0.8	0.2	
Number		21,660		126	34,718		4,583	251	61,338

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

	Brood Year and Age Class								
	1983	1982		1981			1980	1979	
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1	Total
Combined Periods (Percentages are weighted by period catches)									
Sample Number	1	2,200		2	2,375	1	288	17	4,884
Percent	<0.1	48.9		<0.1	46.2	<0.1	4.6	0.2	100.0
Std. Error		0.9		<0.1	0.9		0.3	0.1	
Number	313	472,143		126	446,263	94	44,323	2,286	965,547
Southern Outside									
Statistical Weeks 27 - 29 (June 30 - July 20)									
Sample Number		309			278		17		604
Percent		51.2			46.0		2.8		100.0
Std. Error		2.0			2.0		0.7		
Number		64,837			58,333		3,567		126,737
Statistical Weeks 30 - 32 (July 21 - August 10)									
Sample Number		311			203		17	1	532
Percent		58.5			38.2		3.2	0.2	100.0
Std. Error		2.1			2.1		0.8		
Number		43,629			28,478		2,385	140	74,632
Statistical Weeks 33 - 38 (August 11 - Sept. 21)									
Sample Number		250			241		33		524
Percent		47.7			46.0		6.3		100.0
Std. Error		2.2			2.2		1.1		
Number		31,557			30,421		4,166		66,144
Combined Periods (Percentages are weighted by period catches)									
Sample Number		870			722		67	1	1,660
Percent		52.3			43.8		3.8	0.1	100.0
Std. Error		1.3			1.2		0.5		
Number		140,023			117,232		10,118	140	267,513

-Continued-

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

	Brood Year and Age Class								
	1983	1982		1981			1980	1979	
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1	Total
Northern Inside									
Statistical Weeks 27 - 38 (June 30 - Sept. 20)									
Sample Number	1	396	2		390		47	5	841
Percent	0.1	47.1	0.2		46.4		5.6	0.6	100.0
Std. Error		1.7	0.2		1.7		0.8	0.3	
Number	102	40,365	204		39,754		4,791	510	85,725
Southern Inside									
Statistical Weeks 27 - 30 (June 30 - July 27)									
Sample Number		373			253		17	1	644
Percent		57.9			39.3		2.6	0.2	100.0
Std. Error		1.9			1.9		0.6		
Number		42,824			29,047		1,952	115	73,937
Statistical Weeks 31 - 38 (July 28 - Sept. 20)									
Sample Number		403			305		38	6	752
Percent		53.6			40.6		5.1	0.8	100.0
Std. Error		1.8			1.8		0.8	0.3	
Number		42,615			32,252		4,018	634	79,520
Combined Periods (Percentages are weighted by period catches)									
Sample Number		776			558		55	7	1,396
Percent		55.7			39.9		3.9	0.5	100.0
Std. Error		1.3			1.3		0.5	0.2	
Number		85,439			61,299		5,970	749	153,457

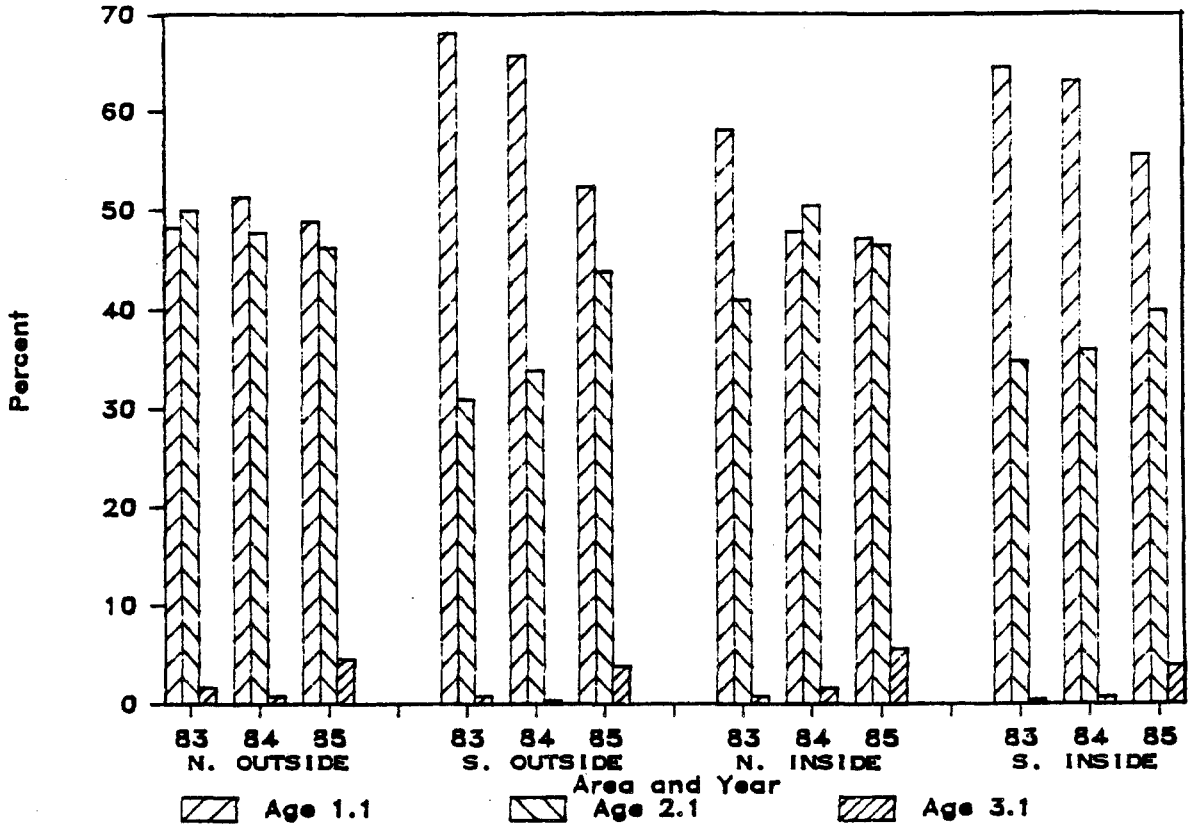


Figure 7. Age composition of the Southeastern Alaska troll harvest of coho salmon by area in 1983, 1984, and 1985.

Table 12. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska troll fishery by area, period, and age, 1985.

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Northern Outside								
Statistical Weeks 27 - 29 (June 30 - July 20)								
Avg. Length		607.9			611.9		621.7	615.0
Std. Error		2.4			2.5		9.3	
Sample Size		367			328		26	1
Statistical Weeks 30 - 31 (July 21 - August 3)								
Avg. Length	555.0	612.9			621.2		622.5	
Std. Error		2.2			2.3		8.6	
Sample Size	1	408			313		20	
Statistical Weeks 32 - 33 (August 4 - 17)								
Avg. Length		621.4			632.5		640.5	635.0
Std. Error		2.6			2.7		5.4	12.4
Sample Size		411			389		38	4
Statistical Week 35 (August 25 - 31)								
Avg. Length		662.5			669.2	290.0	671.9	670.5
Std. Error		3.4			2.9		6.5	12.2
Sample Size		420			480	1	78	4
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		656.0			653.8		657.6	660.0
Std. Error		2.9			2.6		7.6	19.6
Sample Size		249			312		53	4
Statistical Weeks 37 - 38 (Sept. 8 - 20)								
Avg. Length		668.3		682.5	675.6		673.2	698.8
Std. Error		1.9		2.5	1.5		4.6	6.3
Sample Size		345		2	553		73	4
Combined Periods (Unweighted)								
Avg. Length	555.0	636.7		682.5	648.4	290.0	657.5	663.1
Std. Error		1.2		2.5	1.1		3.0	8.5
Sample Size	1	2,200		2	2,375	1	288	17

-Continued-

Table 12. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska troll fishery by area, period, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Southern Outside								
Statistical Weeks 27 - 29 (June 30 - July 20)								
Avg. Length		586.0			593.4		595.9	
Std. Error		2.4			3.3		5.4	
Sample Size		309			278		17	
Statistical Weeks 30 - 32 (July 21 - August 10)								
Avg. Length		599.7			605.4		605.5	590.0
Std. Error		3.2			3.0		12.6	
Sample Size		311			203		17	1
Statistical Weeks 33 - 38 (August 11 - Sept. 20)								
Avg. Length		627.9			627.9		635.8	
Std. Error		2.8			2.4		5.1	
Sample Size		250			241		33	
Combined Periods (Unweighted)								
Avg. Length		602.9			608.3		618.0	590.0
Std. Error		1.7			1.8		4.8	
Sample Size		870			722		67	1
Northern Inside								
Statistical Weeks 27 - 38 (June 30 - Sept. 20)								
Avg. Length	615.0	603.3	410.0		626.9		627.6	609.0
Std. Error		3.6	45.0		2.5		7.3	8.4
Sample Size	1	396	2		390		47	5
Southern Inside								
Statistical Weeks 27 - 30 (June 30 - July 27)								
Avg. Length		585.6			600.6		601.8	620.0
Std. Error		2.5			2.7		10.1	
Sample Size		373			253		17	1

-Continued-

Table 12. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska troll fishery by area, period, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Weeks 31 - 38 (July 28 - Sept. 20)								
Avg. Length		611.8			615.8		621.4	648.3
Std. Error		3.0			3.2		18.0	27.6
Sample Size		403			305		38	6
Combined Periods (Unweighted)								
Avg. Length		599.2			608.9		615.4	644.3
Std. Error		2.0			2.1		12.8	23.7
Sample Size		776			558		55	7

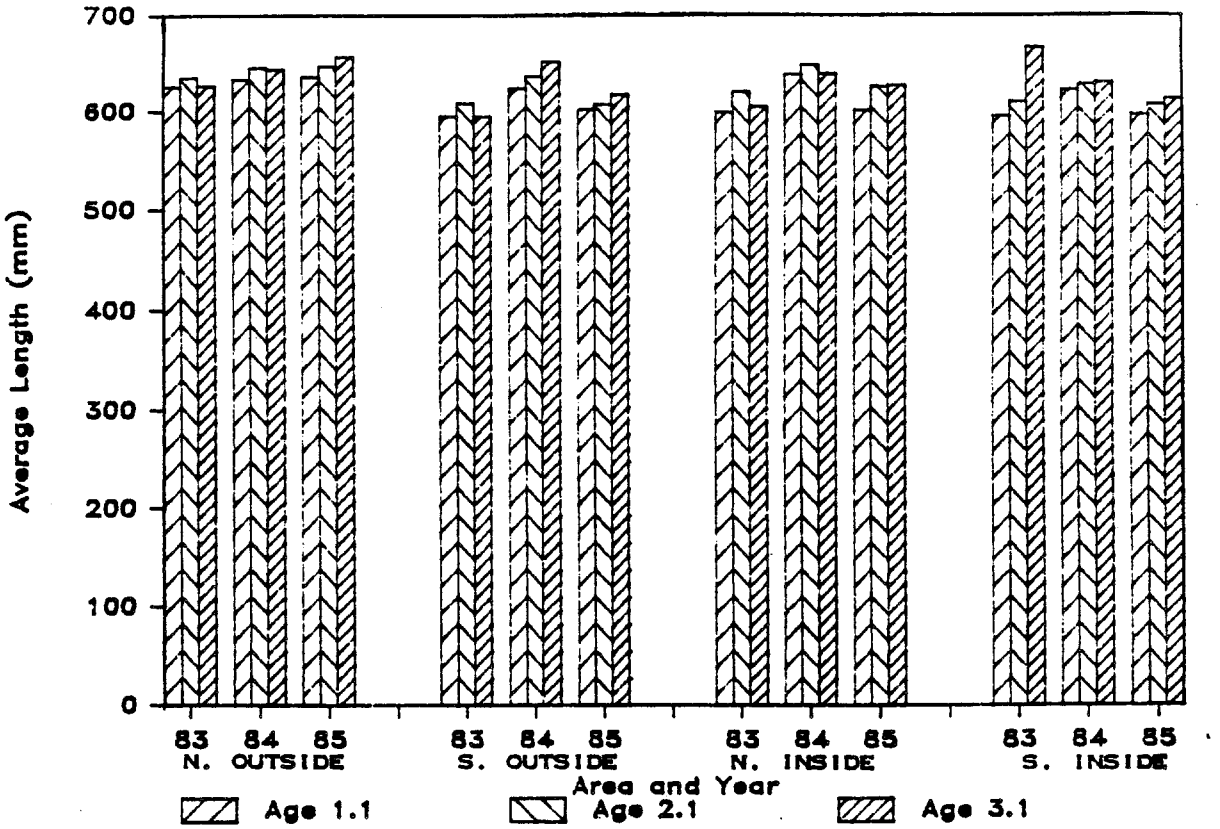


Figure 8: Average length at age for coho salmon harvested in the Southeastern Alaska troll fishery by area in 1983, 1984, and 1985.

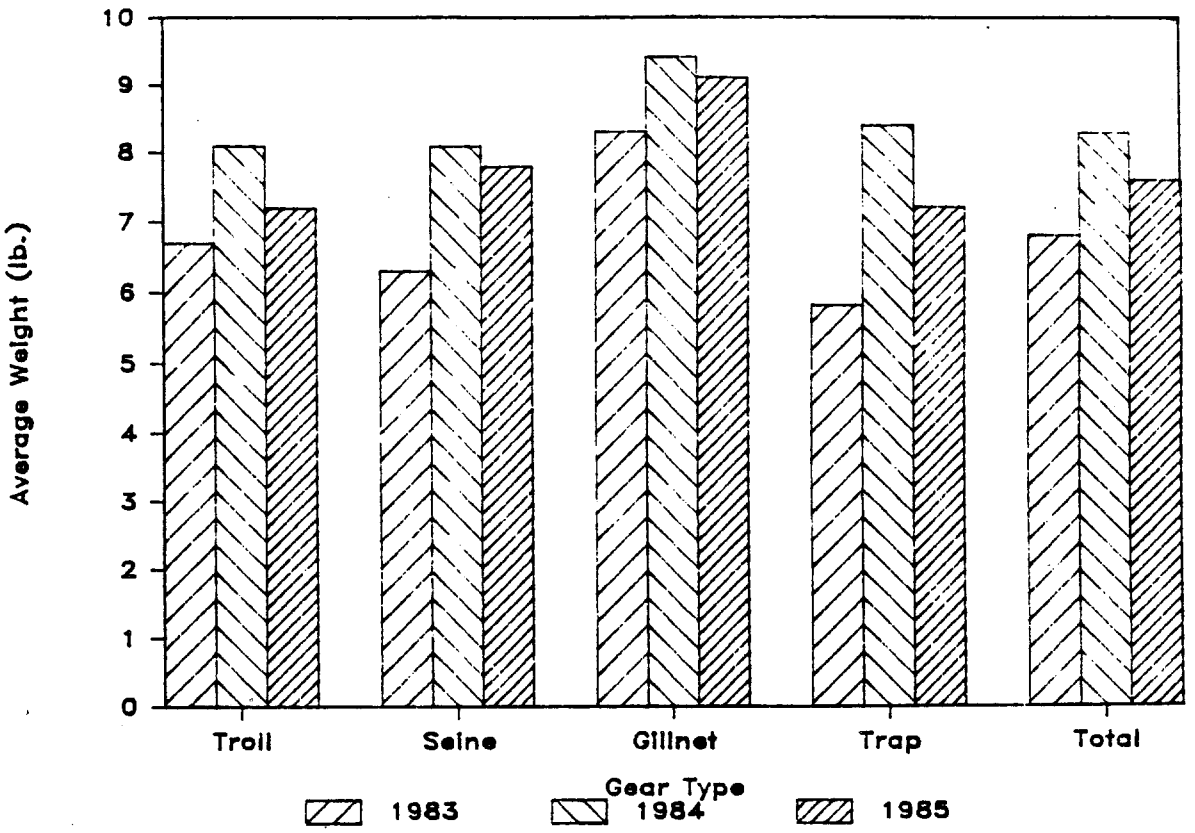


Figure 9. Average weight of coho salmon harvested in the Southeastern Alaska troll, seine, gill net, and trap fisheries 1983, 1984, and 1985.

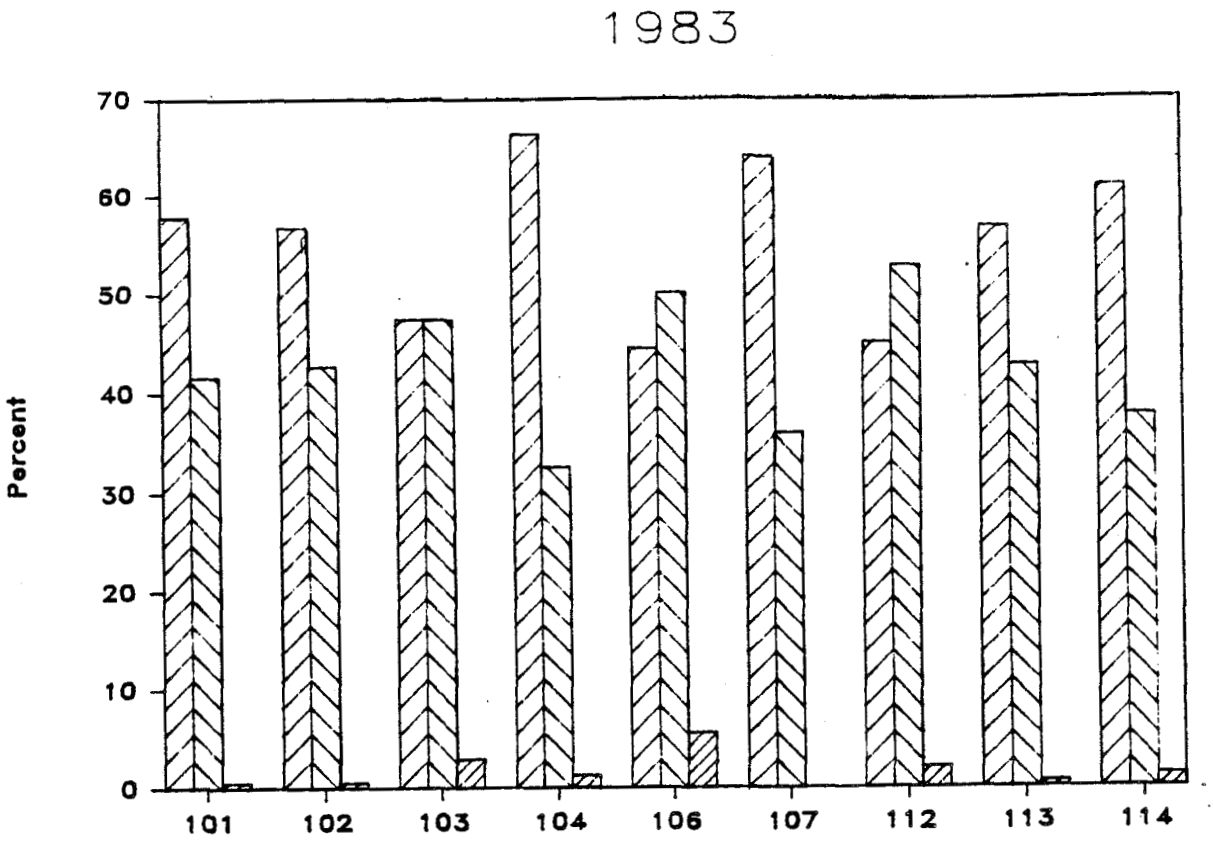
Table 13. Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district, 1985.

	Brood Year and Age Class							
	1983	1982		1981		1980	1979	
	1.0	1.1	2.0	2.1	3.0	3.1	4.1	Total
District 101								
Statistical Weeks 28 - 41 (July 7 - Oct. 12)								
Sample Number	6	12	8	6	1			33
Percent	18.2	36.4	24.2	18.2	3.0			100.0
Std. Error	6.8	8.5	7.6	6.8				
Number	19,547	39,095	26,063	19,547	3,258			107,510
District 103								
Statistical Weeks 32 - 36 (August 4 - Sept. 7)								
Sample Number		91		98		13		202
Percent		45.0		48.5		6.4		100.0
Std. Error		3.5		3.5		1.7		
Number		21,672		23,340		3,096		48,108
District 104								
Statistical Weeks 28 - 35 (July 7 - August 31)								
Sample Number		99		88		7		194
Percent		51.0		45.4		3.6		100.0
Std. Error		3.6		3.6		1.3		
Number		65,923		58,598		4,661		129,183
District 105								
Statistical Weeks 31 - 36 (July 28 - Sept. 7)								
Sample Number		48		43		5		96
Percent		50.0		44.8		5.2		100.0
Std. Error		5.1		5.1		2.3		
Number		2,234		2,001		233		4,468
District 106								
Statistical Week 35 (August 25 - 31)								
Sample Number		19		11		2	1	33
Percent		57.6		33.3		6.1	3.0	100.0
Std. Error		8.7		8.3		4.2		
Number		2,949		1,707		310	155	5,122

-Continued-

Table 13. Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981		1980	1979	
	1.0	1.1	2.0	2.1	3.0	3.1	4.1	Total
District 109								
Statistical Weeks 29 - 37 (July 14 - Sept. 14)								
Sample Number		92		79		8		179
Percent		51.4		44.1		4.5		100.0
Std. Error		3.7		3.7		1.5		
Number		10,982		9,430		955		21,367
District 110								
Statistical Weeks 29 - 34 (July 14 - August 24								
Sample Number		190		109		4		303
Percent		62.7		36.0		1.3		100.0
Std. Error		2.8		2.8		0.7		
Number		6,468		3,710		136		10,314
District 112								
Statistical Weeks 25 - 36 (June 16 - Sept. 7)								
Sample Number		98		117		9	1	225
Percent		43.6		52.0		4.0	0.4	100.0
Std. Error		3.3		3.3		1.3		
Number		11,248		13,429		1,033	115	25,825
District 113								
Statistical Weeks 30 - 34 (July 21 - August 24)								
Sample Number		91		99		10		200
Percent		45.5		49.5		5.0		100.0
Std. Error		3.5		3.5		1.5		
Number		7,166		7,796		787		15,749



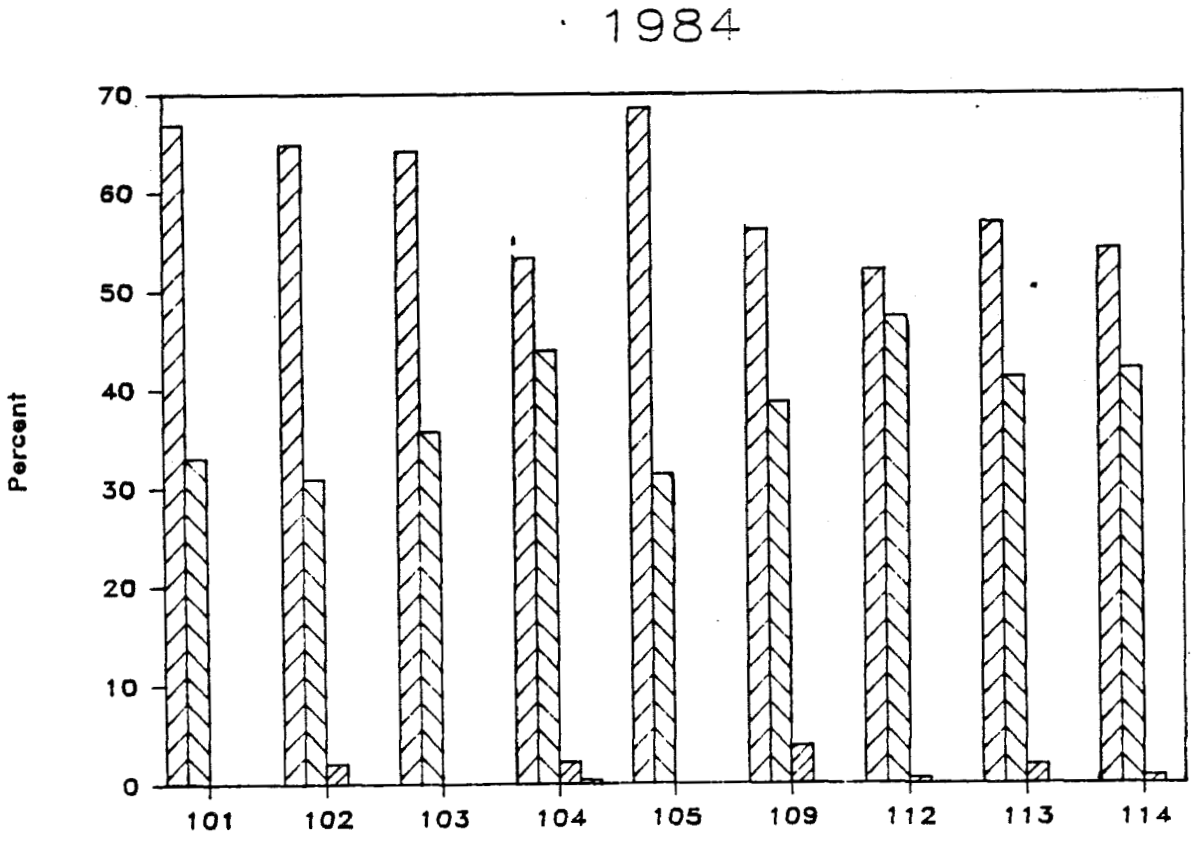


Figure 10. Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district in 1983, 1984, and 1985 (continued).

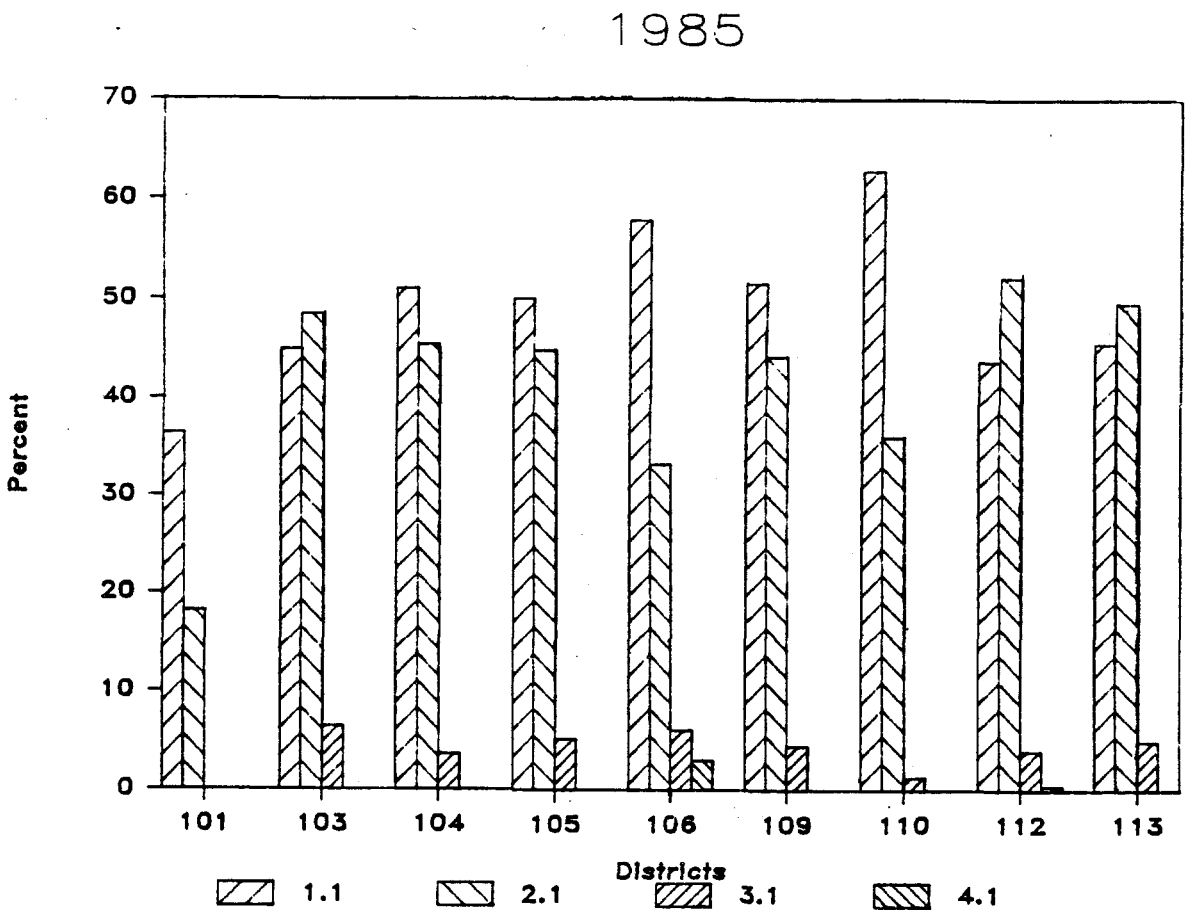


Figure 10. Age composition of the Southeastern Alaska purse seine harvest of coho salmon by district 1983, 1984, and 1985.

Table 14. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska purse seine fishery by district and age, 1985.

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 101							
Statistical Weeks 28 - 41 (July 7 - Oct. 12)							
Avg. Length	286.2	558.3	358.8	585.8	328.0		
Std. Error	57.9	21.1	6.3	24.1			
Sample Size	6	12	8	6	1		
District 103							
Statistical Weeks 32 - 36 (August 4 - Sept. 7)							
Avg. Length		602.0		594.4		602.4	
Std. Error		5.4		4.8		11.8	
Sample Size		91		98		13	
District 104							
Statistical Weeks 28 - 35 (July 7 - August 31)							
Avg. Length		585.2		611.2		597.6	
Std. Error		6.7		5.8		16.5	
Sample Size		99		88		7	
District 105							
Statistical Weeks 31 - 36 (July 28 - Sept. 7)							
Avg. Length		580.1		599.4		623.0	
Std. Error		9.7		8.1		12.1	
Sample Size		48		43		5	
District 106							
Statistical Week 35 (August 25 - 31)							
Avg. Length		628.4		643.6		670.0	670.0
Std. Error		13.2		9.8		20.0	
Sample Size		19		11		2	1

-Continued-

Table 14. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska purse seine fishery by district and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 109							
Statistical Weeks 29 - 37 (July 14 - Sept. 14)							
Avg. Length		589.1		606.7		611.9	
Std. Error		5.3		6.1		17.8	
Sample Size		92		79		8	
District 110							
Statistical Weeks 29 - 34 (July 14 - August 24)							
Avg. Length		581.1		615.7		627.5	
Std. Error		4.2		5.5		21.7	
Sample Size		190		109		4	
District 112							
Statistical Weeks 25 - 36 (June 16 - Sept. 7)							
Avg. Length		589.8		612.1		626.7	500.0
Std. Error		6.2		4.8		14.7	
Sample Size		98		117		9	1
District 113							
Statistical Weeks 25 - 37 (June 16 - Sept. 14)							
Avg. Length		601.4		616.5		620.5	
Std. Error		6.5		6.5		22.7	
Sample Size		91		99		10	

In comparing 1985 to 1983 and 1984 catches of fish aged 1.1 there is a dramatic change (NSC) over the prior years age composition for the southern districts harvest (Figure 10). In District 103 there was a decrease of 19.2% over the 1984 age 1.1 composition. The data is questionable due to the small sample sizes. The districts with the least amount of variability in sample sizes were 104, 109, and 112 where there was a total decrease among age 1.1 fish of -2.4% to -8.5% from 1984 to 1985. The difference between 1985 and 1983 in District 104 was greater; age 1.1 fish decreased 17.6%. Overall, the catch of fish aged 1.1 decreased over the last two years in all districts. The 1985 average length is similar to the 1983 and 1984 data.

Gill Net. Fish aged 1.1 and 2.1 were the dominant age classes in the gill net fishery, and represented more than 92% of the catches in all districts (Table 15, Figure 11, Appendix Table A4). Fish aged 2.1 predominated in the catches in Districts 101, 106, 108, and 115 and comprised slightly less than half the catch in District 111. Fish aged 3.1 and 4.1 made up 3.5% of the total catch for all districts. Fish aged 2.1 and 3.1 were longer (NSC) in all districts than fish aged 1.1 (Table 16, Appendix Table A4).

In 1983 and 1984 fish aged 3.1 comprised 0.6% and 1.0%, respectively, of the harvest and there were virtually no age 4.1 fish harvested (Figure 11). Fish aged 1.1 comprised a higher proportion of the catch in most of the districts in 1985 as compared to 1983, except for District 108. Overall, the fish in 1985 were older in all districts except 108 and 111 as compared to the catches in 1983 and 1984 (NSC). The 1985 catches in District 108 were older overall than the ages in 1969, but still younger than the 1970 age composition (NSC). The fish aged 3.1 are more prevalent in 1985 than in 1969, 1982, 1983, and 1984. In 1985 fish aged 4.1 represented the highest harvest percentage ever recorded (previous years included 1969, 1970, 1982, 1983, and 1984). The catches in District 111 were considerably younger than in 1969, 1970, 1982, and 1984 but similar to the age structure of 1983 (NSC).

Fish aged 1.1 tended to be shorter in 1985 than fish of older freshwater ages; this was also the case in 1983 and 1984.

Canadian Inriver Gill Net. Fish aged 1.1 in the Canadian inriver fishery on the Stikine River were more numerous than fish aged 2.1 and 3.1 (Table 17, Appendix Table A5)(NSC). Fish aged 2.1, 3.1, and 4.1 were more predominant in the Taku River test fishery (Table 18, Appendix Table A6). These age classes made up 56.6% of the total test fishery harvest.

Overall, the average length showed that fish aged 2.1 and 3.1 were longer than fish aged 1.1 on both the Stikine River (Table 17, Appendix Table A5) and the Taku River (Table 18, Appendix Table A6).

The Stikine River coho salmon were more numerous at age 3.1 than in the 1983 catch. There were no samples taken in 1984 from the Stikine River. In the 1985 Taku River catch, as in prior years, age 2.1 fish dominated the harvest. Increased numbers of older fish (age 3.1 and 4.1) were captured (Table 18).

Coho salmon length for the Stikine River fishery was smaller for all age classes in 1985 than for the 1983 catches (Table 17, Appendix Table A5). In the Taku River, coho salmon lengths were also smaller than in the 1983 and 1984 catches (Table 18, Appendix Table A6).

Table 15. Age composition of the Southeastern Alaska gillnet harvest of coho salmon by district, 1985.

	Brood Year and Age Class				
	1982	1981	1980	1979	
	1.1	2.1	3.1	4.1	Total
District 101					
Statistical Weeks 25 - 41 (June 16 - October 12)					
Sample Number	42	62	3		107
Percent	39.3	57.9	2.8		100.0
Std. Error	4.7	4.8	1.6		
Number	29,937	44,192	2,138		76,267
District 106					
Statistical Weeks 25 - 41 (June 16 - October 12)					
Sample Number	230	264	14	2	510
Percent	45.1	51.8	2.7	0.4	100.0
Std. Error	2.2	2.2	0.7	0.3	
Number	44,032	50,542	2,680	383	97,637
District 108					
Statistical Weeks 31 - 42 (July 28 - October 19)					
Sample Number	51	66	9	1	127
Percent	40.2	52.0	7.1	0.8	100.0
Std. Error	4.4	4.5	2.3		
Number	2,061	2,667	364	40	5,132
District 111					
Statistical Weeks 25 - 40 (June 16 - October 5)					
Sample Number	285	267	17		569
Percent	50.1	46.9	3.0		100.0
Std. Error	2.1	2.1	0.7		
Number	27,847	26,089	1,661		55,597
District 115					
Statistical Weeks 25 - 42 (June 16 - October 19)					
Sample Number	370	414	28	1	813
Percent	45.5	50.9	3.4	0.1	100.0
Std. Error	1.7	1.8	0.6		
Number	44,766	50,090	3,388	121	98,365

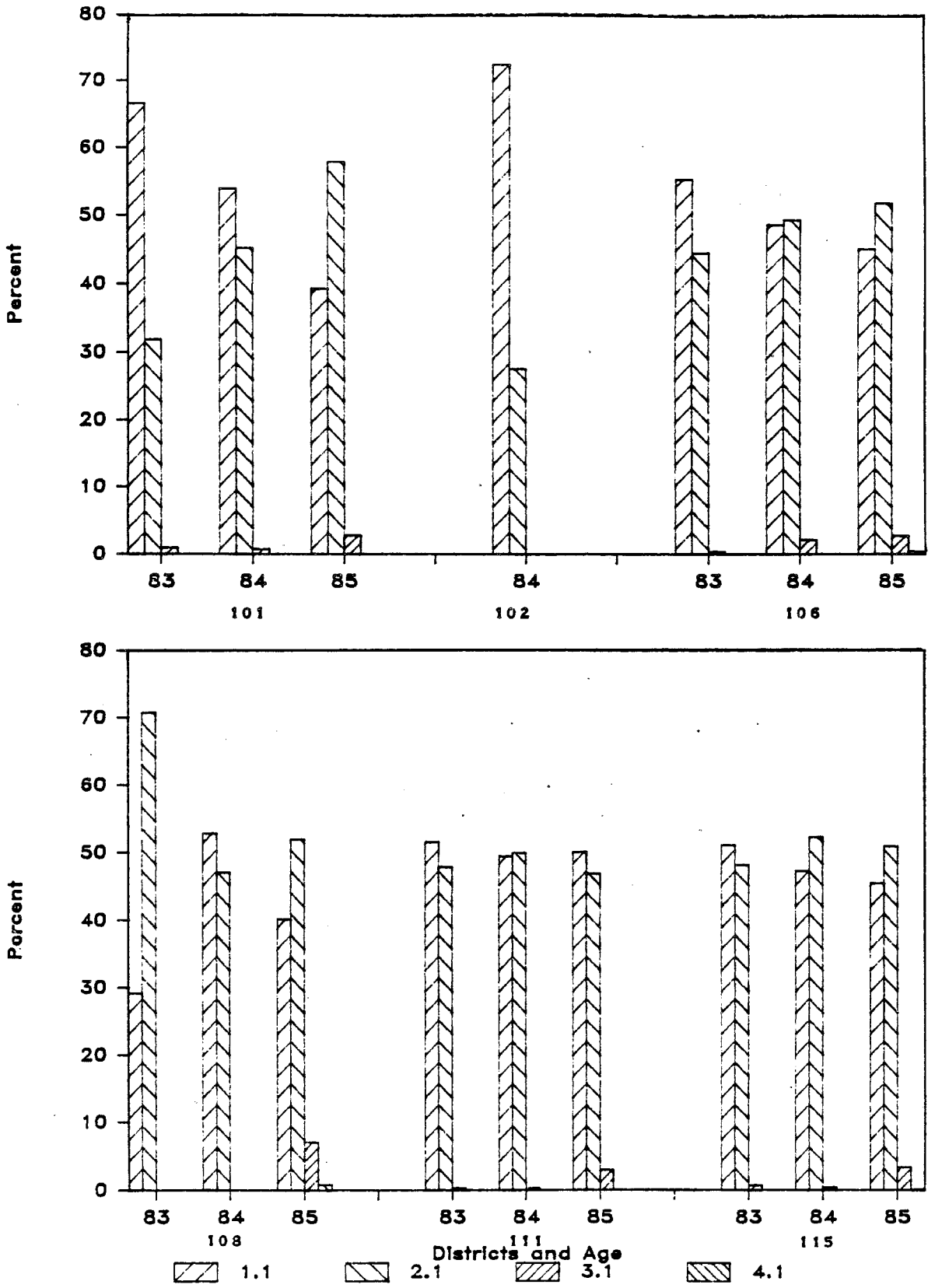


Figure 11. Age composition of the Southeastern Alaska gill net harvest of coho salmon by district in 1983, 1984, and 1985.

Table 16. Average length (mm) and standard error of coho salmon caught in the Southeastern Alaska gillnet fishery by district and age, 1985.

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
District 101				
Statistical Weeks 25 - 41 (June 16 - October 12)				
Avg. Length	578.5	590.2	645.0	
Std. Error	6.6	4.7	10.0	
Sample Size	42	62	3	
District 106				
Statistical Weeks 25 - 41 (June 16 - October 12)				
Avg. Length	582.9	596.6	598.7	582.5
Std. Error	4.1	4.2	9.6	47.5
Sample Size	230	264	14	2
District 108				
Statistical Weeks 31 - 42 (July 28 - October 19)				
Avg. Length	625.7	633.5	638.9	615.0
Std. Error	5.2	3.7	7.3	
Sample Size	51	66	9	1
District 111				
Statistical Weeks 25 - 40 (June 16 - October 5)				
Avg. Length	618.0	628.6	632.6	
Std. Error	4.8	6.6	13.7	
Sample Size	285	267	17	
District 115				
Statistical Weeks 25 - 42 (June 16 - October 19)				
Avg. Length	598.3	619.5	637.7	510.0
Std. Error	3.3	3.6	10.8	
Sample Size	370	414	28	1

Table 17. Age composition and average length (mm) of coho salmon caught in the Canadian commercial gillnet fishery on the Stikine River, 28 July to 17 August, 1985[1/].

	Brood Year and Age Class			
	1982	1981	1980	
	1.1	2.1	3.1	Total
Male				
Percent	55.9	24.5	2.1	82.5
Std. Error	4.2	3.6	1.2	3.2
Number	989	433	37	1,459
Avg. Length	537.2	529.9	539.0	
Std. Error	8.3	18.8	13.6	
Sample Size	80	35	3	118
Female				
Percent	7.7	8.4	1.4	17.5
Std. Error	2.2	2.3	1.0	3.2
Number	136	148	25	309
Avg. Length	628.8	604.2	637.0	
Std. Error	12.1	21.7	10.0	
Sample Size	11	12	2	25
All Fish				
Percent	63.6	32.9	3.5	100.0
Std. Error	4.0	3.9	1.5	
Number	1,125	581	62	1,768
Avg. Length	548.3	548.9	578.2	
Std. Error	8.1	15.7	25.3	
Sample Size	91	47	5	143

1/ Catch does not include 404 jack coho.

Table 18. Age composition and average length (mm) of coho salmon caught in the Canadian gillnet test fishery on the Taku River, 1985.

	Brood Year and Age Class				
	1982	1981	1980	1979	
	1.1	2.1	3.1	4.1	Total
Statistical Weeks	32 - 37		(August 4 - Sept. 14)		
Male					
Percent	27.9	31.4	3.9		63.2
Std. Error	3.1	3.3	1.4		3.4
Sample Size	57	64	8		129
Avg. Length	612.9	626.8	620.6		
Std. Error	10.0	9.6	32.2		
Female					
Percent	18.1	15.7	2.5	0.5	36.8
Std. Error	2.7	2.6	1.1		3.4
Sample Size	37	32	5	1	75
Avg. Length	636.6	652.5	652.2	601.0	
Std. Error	8.9	9.5	13.1		
All Fish					
Percent	46.1	47.1	6.4	0.5	100.0
Std. Error	3.5	3.5	1.7		
Sample Size	94	96	13	1	204
Avg. Length	622.3	635.3	632.8	601.0	
Std. Error	7.0	7.2	20.4		

Escapement Statistics

Selected Southeastern Alaska coho salmon escapements were surveyed to obtain estimates of abundance, run timing, and age, sex, and size composition. Detailed survey data is available from ADF&G (Division of Commercial Fisheries, P.O. Box 20, Douglas, AK 99824-0020).

Numbers of Fish:

Peak escapements and weir counts for the 107 stocks with counts of 25 or more show that coho salmon spawn in numerous coastal and island drainages throughout the region (Table 19). Peak coho escapement counts were under 500 in 78 of these stocks. The largest wild stock escapement count was in the Berners River (6,169 fish). Coho salmon counts averaged 1,405 fish past the 9 weirs in place to monitor escapements. Comparing the seven index systems (Hugh Smith Lake, Warm Chuck Lake, Auke Lake, Salmon Lake, Ford Arm Lake, Berners River, and Chilkoot River) where escapements have been monitored in recent years, the 1985 index escapement was 2,124 fish compared to the historical average of 1,795 fish (Table 20). Daily weir counts are presented in Appendix Tables A7 to A30.

The mean date of migration for coho salmon returning to the 9 systems weired specifically for enumeration of this species was usually late September, but ranged for non-jacks from 23 September for Warm Chuck Lake to 2 October for Chilkat and Chilkoot Lakes (Table 21). Jacks ran an average of 5 days earlier than the non-jacks. There was little difference in the mean date of migration between inside coastal systems and outside coastal systems, and 80% of each escapement passed through most weirs over a one to two month period.

Age, Sex, and Size:

Age, sex, and size information was obtained from the escapements to 15 wild and 3 hatchery runs (Table 22 and 23). Fish aged 1.1, 2.1, 3.1, and 4.1 dominated the escapements. There was a higher proportion of older fish in the escapements than in the harvests. Jacks, were sampled from most escapements, while no jacks were commercially harvested except for a few in the District 101 purse seine fishery and the troll fishery late in the season.

All coho salmon returning to Alaskan hatcheries in 1985 were freshwater-age 0. and 1. at time of release. Since some returning adults were freshwater-age 2. and 3. these fish either: (1) held over in freshwater for an additional winter (or winters), (2) were wild stock fish in the samples, or (3) were not accurately aged. This year the number of fish older than freshwater-age 1. is smaller than in prior years, comprising less than 2.9% of the total hatchery escapement.

Age compositions varied considerably between systems. There are considerable differences in age structure from 1983 and 1984 (see Van Alen and Wood 1986 and Wood and Van Alen 1986) as compared to 1985. Ages in the escapements are showing an older outmigration age in the last few years (Figure 12). These differences in age composition do not appear to be related to geographical differences, but may be related to system differences, i.e., lake versus river. The age structure for outmigrating smolts in the inside systems shows an increase in the mean freshwater age from 1.41 to 1.61 years for the Taku

Table 19. Peak escapement estimates for coho salmon in Southeastern Alaska, 1985. Abbreviations for types of surveys are as follows: (A) airplane, (B) boat, (F) foot, (H) helicopter, and (W) weir[1/].

Stream Number	Stream Name	Count	Method	Date 2/	Organization
101-11-079	Fillmore Creek - Hugh Smith Lake	903 3/	(W)	11/11	ADF&G 4/
101-15-085	Fish Creek - Hyder	35	(F)	9/21	ADF&G
101-25-025	Tamgass Creek	4,500	(W)	10/01	AIIR 5/
101-30-060	Martin River	470	(F)	9/12	ADF&G
101-30-083	Humpback Creek	372	(F)	8/24	ADF&G
101-45-078	Carroll Creek	1,550	(F)	10/22	ADF&G
101-47-015	Ward Creek	1,081	(F)	10/24	ADF&G
101-60-030	Big Goat Creek	26	(F)	9/06	ADF&G
101-71-004	Chickamin River	812	(F)	10/23	ADF&G
101-71-014	King Creek - Behm Canal	31	(F)	8/13	ADF&G
101-75-015	Eulachon River	1,883	(F)	8/14	ADF&G
101-80-068	Wolverine Creek	650	(F)	10/08	ADF&G
102-40-060	Lagoon Creek	283	(F)	10/03	ADF&G
102-60-072	Twelvemile Creek	51	(F)	9/22	ADF&G
102-60-087	Karta River	2,213	(W) 6/	8/21	ADF&G
103-11-017	Hunter Bay East Head	30	(F)	9/06	ADF&G
103-15-023	Klakas Bay Right Head	180	(F)	9/29	ADF&G
103-21-008	Nutkwa Creek	48	(F)	9/07	ADF&G
103-40-035	Natzuhini Creek NE Corner	30	(F)	9/26	ADF&G
103-40-054	Dunbar Inlet SE Head	35	(F)	9/27	ADF&G
103-60-047	Klawock River - Hatchery	14,446	(W)	11/08	ADF&G
103-60-075	Trocadero Bay	30	(F)	9/14	ADF&G
103-80-031	Warm Chuck Lake	956 7/	(W)	11/11	ADF&G
103-80-035	Nossuk Bay Left Head	117	(F)	9/19	ADF&G
103-90-026	Naukati Creek	32	(F)	9/17	ADF&G
103-90-030	Staney Creek	159	(F)	9/18	ADF&G
103-90-042	Shaheen Creek	88	(F)	9/18	ADF&G
106-10-030	Eagle Creek - Luck Lake	300	(F)	7/31	ADF&G
106-10-034	Luck Creek - Luck Lake	29	(F)	9/11	ADF&G
106-22-004	Mosman Inlet NW Head	200	(A)	7/31	ADF&G
106-22-006	Flat Creek - Mosman Inlet	30	(F)	9/10	ADF&G
106-22-016	Navy Creek	91	(F)	9/24	ADF&G
106-30-085	Exchange Cove Creek	78	(F)	9/11	ADF&G
106-41-010	Salmon Bay Lake	319	(W)	9/05	ADF&G
106-41-030	Red Lake Creek	32	(F)	8/22	ADF&G
106-41-055	Totem Creek	30	(F)	8/20	ADF&G
106-44-006	Falls Creek - Mitkof Island	125	(F)	10/14	ADF&G
106-44-031	Crystal Creek - Hatchery	3,522 8/	(W)	12/11	ADF&G
106-44-060	Petersburg Creek	272	(F)	10/15	ADF&G
107-10-020	Vixen Inlet Creek	31	(F)	9/22	ADF&G
107-20-030	Black Bear Creek	34	(F)	9/21	ADF&G

-Continued-

Table 19. Peak escapement estimates for coho salmon in Southeastern Alaska, 1985. Abbreviations for types of surveys are as follows: (A) airplane, (B) boat, (F) foot, (H) helicopter, and (W) weir[1/] (continued).

Stream Number	Stream Name	Count	Method	Date 2/	Organization
107-20-030	Menefee Creek	181	(F)	9/08	ADF&G
107-30-030	Thoms Creek	80	(F)	9/19	ADF&G
107-30-070	Snake Creek Olive Cove	43	(F)	9/18	ADF&G
107-40-047	Tom Lake Creek	60	(F)	9/07	ADF&G
107-40-049	Harding River	218	(F)	9/07	ADF&G
107-40-055	Eagle River - Bradfield Canal	30	(F)	9/07	ADF&G
108-10-005	Pat Creek - Wrangell Island	35	(F)	9/05	ADF&G
108-10-010	McCormack Creek - Wrangell Island	28	(F)	9/05	ADF&G
108-40-040	Blind Slough - Sumner Strait	45	(F)	10/11	ADF&G
108-40-050	Ohmer Creek	91	(F)	10/07	ADF&G
108-50-003	Bear Creek - Fredrick Sound	64	(F)	8/29	ADF&G
109-10-006	Sashin Creek	83	(W) 6/	9/30	NMFS 9/
109-10-023	Deep Cove NW Head	79	(F)	10/20	ADF&G
109-20-013	Falls Creek - Baranof Island	28	(W)	8/19	ADF&G
109-45-015	Security Bay S Side	500	(A) 6/	8/16	ADF&G
110-13-004	Dry Bay Creek	34	(F)	10/21	ADF&G
111-17-010	King Salmon River	499	(A)	9/18	ADF&G
111-32-038	Sockeye Creek - Taku River	740	(A)	10/15	ADF&G
111-32-056	Fish Creek - Taku River	1,000	(H)	10/21	ADF&G
111-32-066	Yehring Creek - Taku River	560	(A)	10/05	ADF&G
111-32-068	Johnson Creek - Taku River	150	(A)	10/05	ADF&G
111-32-203	Wilms Creek - Taku River	2,230	(H)	10/21	ADF&G
111-33-000	Snettisham Hatchery	2,539	(W)	10/01	ADF&G
111-33-034	Speel Lake	120	(B)	9/10	ADF&G
111-35-006	Cresent Lake Outlet	97	(W) 6/	8/29	ADF&G
111-40-007	Switzer Creek	122	(F)	10/09	ADF&G
111-40-015	Salmon Creek - Gastineau Channel	1,600	(F)	10/25	ADF&G
111-41-005	Admiralty Creek	44	(F)	8/16	ADF&G
111-50-010	Peterson Creek - Favor Cove	276	(F)	10/07	ADF&G
111-50-042	Auke Lake	1,672 10/ 11/	(W)	11/02	ADF&G
111-50-052	Montana Creek	810	(F)	10/08	ADF&G
111-50-056	Steep Creek	186	(F)	10/01	ADF&G
111-50-057	Mendenhall Ponds	45	(F)	10/24	ADF&G
111-50-062	Jordon Creek	72	(F)	10/15	ADF&G
111-50-069	Fish Creek - Douglas Island	31	(F)	10/16	ADF&G
111-50-075	Peterson Creek - Douglas Island	144	(F)	10/07	ADF&G
112-67-035	Hasselborg River	550	(A)	9/11	ADF&G
112-67-040	Jims Creek	156	(A)	10/07	ADF&G

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Table 19. Peak escapement estimates for coho salmon in Southeastern Alaska, 1985. Abbreviations for types of surveys are as follows: (A) airplane, (B) boat, (F) foot, (H) helicopter, and (W) weir[1/] (continued).

Stream Number	Stream Name	Count		Method	Date 2/	Organization	
112-67-060	Kanalku Lake Creek	100		(A)	9/11	ADF&G	
112-80-028	Chaik Bay Creek	104		(F)	10/07	ADF&G	
112-90-014	Whitewater Creek	150		(A)	9/18	ADF&G	
113-22-028	Port Banks	500		(A)	7/17	ADF&G	
113-41-015	Starrigaven Creek	193		(F)	10/03	ADF&G	
113-41-019	Indian River - Sitka	86		(F)	10/15	SJC	12/
113-41-021	Sawmill Creek - Sitka	100		(F)	11/03	ADF&G	
113-41-032	Salmon Lake Stream	1,385	13/	(W)	10/17	ADF&G	
113-41-042	Kizhuchia Creek - Redoubt Bay	122		(F)	8/30	USFS	14/
113-41-043	Redoubt Lake Outlet	506		(W)	8/28	ADF&G	
113-43-002	Nakwasina River	408		(F)	10/07	ADF&G	
113-44-005	Katlian Bay South Fork	40		(F)	10/27	SJC	
113-61-006	Sea Lion Cove South End	180		(F)	11/01	NSRAA	15/
113-62-005	Krestof Sound Sukoi S	61		(F)	9/06	USFS	
113-62-008	Sinitsin Cove Head	144		(F)	10/08	ADF&G	
113-66-006	St. John Baptist Head	109		(F)	10/08	ADF&G	
113-73-003	Ford Arm Lake Stream	2,325	16/	(W)	11/01	ADF&G	
113-81-011	Black River	1,628		(H)	10/07	ADF&G	
114-25-037	Swanson Harbor Creek	52		(F)	8/27	ADF&G	
115-20-010	St. James Bay NW Side	70		(A)	10/06	ADF&G	
115-20-010	Berners River	6,169		(F)	11/01	ADF&G	
115-32-025	Chilkat River	1,500		(A)	10/06	ADF&G	
115-32-040	Spring Creek - Little Salmon R.	79		(F)	10/09	ADF&G	
115-32-053	37 Mile Creek	65		(F)	10/23	ADF&G	
115-32-057	31 Mile Creek	55		(F)	10/15	ADF&G	
115-32-064	Kelsall River	132		(F)	11/08	ADF&G	
115-32-068	Tahini River	268		(F)	10/29	ADF&G	
115-33-020	Chilkoot Lake Outlet	2,200	17/	(W)	10/30	ADF&G	

1/ Includes only those surveys in which more than 25 coho salmon were counted, includes jacks.
2/ Date of survey or last day of weir operation.
3/ Does not include a count of 28 jacks.
4/ Alaska Department of Fish and Game.
5/ Annette Island Indian Reserve.
6/ Weir removed before coho migration was complete.
7/ Does not include a count of 95 jacks.
8/ Does not include a count of 573 jacks.
9/ National Marine Fisheries Service.
10/ Adult coho count combined for wild (942) and hatchery (730) for total escapement.
11/ Does not include a count of wild (121) and hatchery (75) jacks.
12/ Sheldon Jackson College.
13/ Does not include a count of 81 jacks.
14/ United States Forest Service.
15/ Northern Southeast Regional Aquaculture Association.
16/ Does not include a count of 276 jacks.
17/ Does not include a count of 2 jacks, most were able to pass through uncounted.

Table 20. Average adult escapement for 1977 through 1984 escapements to index systems in Southeastern Alaska, 1985.

System	1985 Escapement	Year	Past Escapements No. of Adults
Auke Lake	942	1977	908
		1978	683
		1979	596
		1980	698
		1981	644
		1982	447
		1983	694
		1984	651
		Average	665
Berners River	6,169	1974	4,121
		1975	4,342
		1976	1,820
		1978	3,108
		1979	3,460
		1982	7,505
		1983	9,840
		1984	2,825
		Average	4,628
Chilkoot Lake (excluding freshwater sport catch above the weir)	2,188	1976	942
		1978	1,178
		1979	1,008
		1983	1,733
		Average	1,215
Ford Arm Lake	2,325	1982	2,662
		1983	1,944
		Average	2,303
Salmon Lake	1,388	1983	403
		1984	1,514
		Average	959
Warm Chuck Lake	956	1982	1,017
		1983	1,238
		Average	1,128
Hugh Smith Lake	903	1982	2,144
		1983	1,490
		1984	1,367
		Average	1,667

Table 21. Run timing of coho salmon through weirs in Southeastern Alaska, 1985.

System	Dates of Operation	Cummualtive Percent Past Weir 1/			Mean Date 2/	Variance 3/
		10%	50%	90%		
Hugh Smith Lake	Aug 9-Nov 11	September 6	September 24	November 6	September 29	453.2
Hugh Smith Lake Jacks	Aug 9-Nov 11	September 6	September 12	October 1	September 16	166.1
Klawock River Hatchery 4/	Aug 3-Nov 8	August 30	September 24	October 12	September 23	290.0
Warm Chuck Lake	Aug 13-Oct 23	September 15	September 22	October 6	September 23	80.1
Warm Chuck Lake Jacks	Aug 13-Oct 23	September 6	September 20	October 1	September 20	95.5
Little Tatsamenie Lake (Canada)	Aug 28-Oct 16	September 10	October 7	October 14	October 4	148.6
Hackett River (Canada)	Aug 28-Oct 19	August 31	September 14	September 29	September 14	87.9
Auke Creek Planted	Aug 22-Nov 2	September 23	October 1	October 19	October 2	118.0
Auke Creek Jacks Planted	Aug 22-Nov 2	September 19	September 26	October 4	September 26	38.7
Auke Creek Wild	Sep 11-Nov 2	September 22	September 25	October 10	September 29	76.4
Auke Creek Jacks Wild	Sep 11-Nov 2	September 15	September 23	October 4	September 24	58.4
Salmon Lake	Aug 27-Oct 17	September 23	October 1	October 17	October 1	79.0
Salmon Lake Jacks	Aug 27-Oct 17	September 30	October 1	October 11	October 2	23.0
Ford Arm Lake	Aug 17-Nov 4	September 3	September 24	November 4	September 28	501.8
Ford Arm Lake Jacks	Aug 17-Nov 4	September 3	September 15	October 2	September 15	111.1
Chilkat Lake	Sep 13-Oct 21	September 21	October 5	October 12	October 2	63.7
Chilkoot Lake	Aug 28-Oct 29	September 21	October 3	October 11	October 2	72.8

Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985.

	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Hugh Smith Lake - Weir 101-30-075													
Male													
Sample Number		31	4	112	2	72		6					227
Percent		5.8	0.7	20.8	0.4	13.4		1.1					42.2
Std. Error		1.0	0.4	1.8	0.3	1.5		0.5					2.1
Female													
Sample Number		33	3	141	6	116	2	10					311
Percent		6.1	0.6	26.2	1.1	21.6	0.4	1.9					57.8
Std. Error		1.0	0.3	1.9	0.5	1.8	0.3	0.6					2.1
All Fish													
Sample Number		64	7	253	8	188	2	16					538
Percent		11.9	1.3	47.0	1.5	34.9	0.4	3.0					100.0
Std. Error		1.4	0.5	2.2	0.5	2.1	0.3	0.7					
Warm Chuck Lake - Weir 103-80-031													
Male													
Sample Number	32	169	17	54	2	4							278
Percent	5.9	30.9	3.1	9.9	0.4	0.7							50.8
Std. Error	1.0	2.0	0.7	1.3	0.3	0.4							2.1
Female													
Sample Number		191		75		3							269
Percent		34.9		13.7		0.5							49.2
Std. Error		2.0		1.5		0.3							2.1
All Fish													
Sample Number	32	360	17	129	2	7							547
Percent	5.9	65.8	3.1	23.6	0.4	1.3							100.0
Std. Error	1.0	2.0	0.7	1.8	0.3	0.5							

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Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Salmon Bay Lake - Weir 106-41-010													
Male													
Sample Number		10	2	21		18	1	2					54
Percent		11.4	2.3	23.9		20.5	1.1	2.3					61.4
Std. Error		3.4	1.6	4.6		4.3		1.6					5.2
Female													
Sample Number	1	5	1	8	1	11	1	6					34
Percent	1.1	5.7	1.1	9.1	1.1	12.5	1.1	6.8					38.6
Std. Error		2.5		3.1		3.5		2.7					5.2
All Fish													
Sample Number	1	15	3	29	1	29	2	8					88
Percent	1.1	17.0	3.4	33.0	1.1	33.0	2.3	9.1					100.0
Std. Error		4.0	1.9	5.0		5.0	1.6	3.1					
Crystal Lake Hatchery - Weir 106-44-031													
Male													
Sample Number		97		7									104
Percent		44.3		3.2									47.5
Std. Error		3.4		1.2									3.4
Female													
Sample Number		110		5									115
Percent		50.2		2.3									52.5
Std. Error		3.4		1.0									3.4
All Fish													
Sample Number		207		12									219
Percent		94.5		5.5									100.0
Std. Error		1.5		1.5									

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Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Stikine River - Fishwheel 108-40-015													
Male													
Sample Number		1		1									2
Percent		33.3		33.3									66.7
Std. Error													33.3
Female													
Sample Number		1											1
Percent		33.3											33.3
Std. Error													33.3
All Fish													
Sample Number		2		1									3
Percent		66.7		33.3									100.0
Std. Error		33.3											
Falls Lake - Weir 109-20-013													
Male													
Sample Number		3		7		1							11
Percent		13.6		31.8		4.5							50.0
Std. Error		7.5		10.2									10.9
Female													
Sample Number		9		2									11
Percent		40.9		9.1									50.0
Std. Error		10.7		6.3									10.9
All Fish													
Sample Number		3		17		3							23
Percent		13.0		73.9		13.0							100.0
Std. Error		7.2		9.4		7.2							

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Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

Location Sampled	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
King Salmon River - Carcass 111-17-010													
Male													
Sample Number		11		5		1							17
Percent		29.7		13.5		2.7							45.9
Std. Error		7.6		5.7									8.3
Female													
Sample Number		10		8		1		1					20
Percent		27.0		21.6		2.7		2.7					54.1
Std. Error		7.4		6.9									8.3
All Fish													
Sample Number		21		13		2		1					37
Percent		56.8		35.1		5.4		2.7					100.0
Std. Error		8.3		8.0		3.8							
Taku River - Fishwheel 111-32-032													
Male													
Sample Number		275		283		17		2					577
Percent		33.4		34.4		2.1		0.2					70.1
Std. Error		1.6		1.7		0.5		0.2					1.6
Female													
Sample Number		90	1	138		15		1		1			246
Percent		10.9	0.1	16.8		1.8		0.1		0.1			29.9
Std. Error		1.1		1.3		0.5							1.6
All Fish													
Sample Number		366	1	423		32		3		1			826
Percent		44.3	0.1	51.2		3.9		0.4		0.1			100.0
Std. Error		1.7		1.7		0.7		0.2					

-Continued-

Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Hackett River - Weir (Canada) 111-32-260													
Male													
Sample Number		14		22		2							38
Percent		20.3		31.9		2.9							55.1
Std. Error		4.9		5.7		2.0							6.0
Female													
Sample Number		10		18		3							31
Percent		14.5		26.1		4.3							44.9
Std. Error		4.3		5.3		2.5							6.0
All Fish													
Sample Number		24		40		5							69
Percent		34.8		58.0		7.2							100.0
Std. Error		5.8		6.0		3.1							
Snettisham Hatchery - Weir 111-33-000													
Male													
Sample Number		161		1	1	2							165
Percent		50.3		0.3	0.3	0.6							51.6
Std. Error		2.8				0.4							2.8
Female													
Sample Number		149		2		4							155
Percent		46.6		0.6		1.3							48.4
Std. Error		2.8		0.4		0.6							2.8
All Fish													
Sample Number		310		3	1	6							320
Percent		96.9		0.9	0.3	1.9							100.0
Std. Error		1.0		0.5		0.8							

-Continued-

Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

Location Sampled Stream Number	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Auke Creek - Weir 111-50-042													
Male													
Sample Number		5		41		33		7					86
Percent		3.4		28.1		22.6		4.8					58.9
Std. Error		1.5		3.7		3.5		1.8					4.1
Female													
Sample Number		1		28		25		5			1		60
Percent		0.7		19.2		17.1		3.4			0.7		41.1
Std. Error				3.3		3.1		1.5					4.1
All Fish													
Sample Number		6		69		58		12			1		146
Percent		4.1		47.3		39.7		8.2			0.7		100.0
Std. Error		1.6		4.1		4.1		2.3					
Montana Creek - Carcass 111-50-052													
Male													
Sample Number		13		21		11							45
Percent		12.7		20.6		10.8							44.1
Std. Error		3.3		4.0		3.1							4.9
Female													
Sample Number		17		34		5		1					57
Percent		16.7		33.3		4.9		1.0					55.9
Std. Error		3.7		4.7		2.1							4.9
All Fish													
Sample Number		30		55		16		1					102
Percent		29.4		53.9		15.7		1.0					100.0
Std. Error		4.5		5.0		3.6							

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Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

Location Sampled	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Sheldon Jackson College Hatchery - Weir 113-36-XXX													
Male													
Sample Number	2	448	1	1	4		3						459
Percent	0.4	81.9	0.2	0.2	0.7		0.5						83.9
Std. Error	0.3	1.6			0.4		0.3						1.6
Female													
Sample Number		88											88
Percent		16.1											16.1
Std. Error		1.6											1.6
All Fish													
Sample Number	2	536	1	1	4		3						547
Percent	0.4	98.0	0.2	0.2	0.7		0.5						100.0
Std. Error	0.3	0.6			0.4		0.3						
Sawmill Creek - Hook and Line 113-41-021													
Male													
Sample Number				2		1							3
Percent				40.0		20.0							60.0
Std. Error				24.5									24.5
Female													
Sample Number		1		1									2
Percent		20.0		20.0									40.0
Std. Error													24.5
All Fish													
Sample Number		1		3		1							5
Percent		20.0		60.0		20.0							100.0
Std. Error				24.5									

-Continued-

Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

Location Sampled	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Salmon Lake - Weir 113-41-032													
Male													
Sample Number			1		9	3	14		4				31
Percent			2.9		26.5	8.8	41.2		11.8				91.2
Std. Error					7.7	4.9	8.6		5.6				4.9
Female													
Sample Number				1		1		1					3
Percent				2.9		2.9		2.9					8.8
Std. Error													4.9
All Fish													
Sample Number			1	1	9	4	15	1	4				35
Percent			2.9	2.9	25.7	11.4	42.9	2.9	11.4				100.0
Std. Error					7.5	5.5	8.5		5.5				
Redoubt Lake - Weir 113-41-043													
Male													
Sample Number		13		16		7							36
Percent		28.9		35.6		15.6							80.0
Std. Error		6.8		7.2		5.5							6.0
Female													
Sample Number		2		4		3							9
Percent		4.4		8.9		6.7							20.0
Std. Error		3.1		4.3		3.8							6.0
All Fish													
Sample Number		15		20		10							45
Percent		33.3		44.4		22.2							100.0
Std. Error		7.1		7.5		6.3							

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Table 22. Age composition of coho salmon in the escapements to Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class												
	1983	1982		1981		1980		1979		1978		1977	
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	Total
Ford Arm Lake - Weir 113-73-003													
Male													
Sample Number	3	9	2	61	15	101	35	36	18		5	1	286
Percent	0.6	1.8	0.4	12.3	3.0	20.4	7.1	7.3	3.6		1.0	0.2	57.7
Std. Error	0.3	0.6	0.3	1.5	0.8	1.8	1.2	1.2	0.8		0.4		2.2
Female													
Sample Number		6		51		97		48			8		210
Percent		1.2		10.3		19.6		9.7			1.6		42.3
Std. Error		0.5		1.4		1.8		1.3			0.6		2.2
All Fish													
Sample Number	3	15	2	112	15	198	35	84	18		13	1	496
Percent	0.6	3.0	0.4	22.6	3.0	39.9	7.1	16.9	3.6		2.6	0.2	100.0
Std. Error	0.3	0.8	0.3	1.9	0.8	2.2	1.2	1.7	0.8		0.7		
Berners River - Carcass 115-20-010													
Male													
Sample Number		79		129		12		2					222
Percent		22.0		35.9		3.3		0.6					61.8
Std. Error		2.2		2.5		0.9		0.4					2.6
Female													
Sample Number		42		85		10							137
Percent		11.7		23.7		2.8							38.2
Std. Error		1.7		2.2		0.9							2.6
All Fish													
Sample Number		121		214		22		2					359
Percent		33.7		59.6		6.1		0.6					100.0
Std. Error		2.5		2.6		1.3		0.4					

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985.

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Hugh Smith Lake - Weir 101-30-075												
Male												
Avg. Length		624.5	351.3	668.0	352.5	662.4		648.3				
Std. Error		12.5	12.0	5.2	7.5	6.5		21.6				
Sample Size		31	4	112	2	72		6				
Female												
Avg. Length		610.5	340.0	671.7	341.7	661.6	362.5	668.0				
Std. Error		12.9	5.8	3.7	2.1	5.1	7.5	13.4				
Sample Size		33	3	141	6	116	2	10				
All Fish												
Avg. Length		617.3	346.4	670.1	344.4	661.9	362.5	660.6				
Std. Error		9.0	7.1	3.1	2.7	4.0	7.5	11.5				
Sample Size		64	7	253	8	188	2	16				
Warm Chuck Lake - Weir 103-80-031												
Male												
Avg. Length	324.8	631.6	347.0	629.8	329.5	635.3						
Std. Error	3.1	3.8	17.4	5.8	0.5	11.2						
Sample Size	32	169	17	54	2	4						
Female												
Avg. Length		628.4		622.2		649.7						
Std. Error		2.8		9.6		13.3						
Sample Size		191		75		3						
All Fish												
Avg. Length	324.8	629.9	347.0	625.4	329.5	641.4						
Std. Error	3.1	2.3	17.4	6.1	0.5	8.3						
Sample Size	32	360	17	129	2	7						

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Salmon Bay Creek - Weir 106-41-010												
Male												
Avg. Length		552.0	440.0	611.0		630.0	450.0	647.5				
Std. Error		17.0	5.0	16.3		13.2		27.5				
Sample Size		10	2	21		18	1	2				
Female												
Avg. Length	590.0	593.0	395.0	611.3	335.0	628.2	485.0	580.0				
Std. Error		16.0		14.7		17.5		25.8				
Sample Size	1	5	1	8	1	11	1	6				
All Fish												
Avg. Length	590.0	565.7	425.0	611.0	335.0	629.3	467.5	596.9				
Std. Error		13.2	15.3	12.3		10.3	17.5	22.5				
Sample Size	1	15	3	29	1	29	2	8				
Crystal Lake Hatchery Weir 106-44-031												
Male												
Avg. Length		584.0		571.4								
Std. Error		5.8		16.2								
Sample Size		97		7								
Female												
Avg. Length		610.3		615.0								
Std. Error		4.0		18.9								
Sample Size		110		5								
All Fish												
Avg. Length		598.0		589.6								
Std. Error		3.5		13.4								
Sample Size		207		12								

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Stikine River - Fishwheel 108-40-015												
Male												
Avg. Length		485.0		540.0								
Std. Error												
Sample Size		1		1								
Female												
Avg. Length		500.0										
Std. Error												
Sample Size		1										
All Fish												
Avg. Length		492.5		540.0								
Std. Error		7.5										
Sample Size		2		1								
Falls Lake - Weir 109-20-013												
Male												
Avg. Length		595.3		615.9		632.0						
Std. Error		20.0		24.3								
Sample Size		3		7		1						
Female												
Avg. Length		615.6		620.0								
Std. Error		5.9										
Sample Size		9		2								
All Fish												
Avg. Length		595.3		614.4		624.0						
Std. Error		20.0		10.1		4.0						
Sample Size		3		17		3						

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
King Salmon River - Carcass 111-17-010												
Male												
Avg. Length		571.8		550.0		490.0						
Std. Error		19.5		27.7								
Sample Size		11		5		1						
Female												
Avg. Length		577.0		618.8		650.0		650.0				
Std. Error		12.8		22.9								
Sample Size		10		8		1		1				
All Fish												
Avg. Length		574.3		592.3		570.0		650.0				
Std. Error		11.6		19.5		80.0						
Sample Size		21		13		2		1				
Taku River - Fishwheel 111-31-032												
Male												
Avg. Length		568.5		595.4		606.2		650.0				
Std. Error		6.5		6.5		21.1		60.0				
Sample Size		275		283		17		2				
Female												
Avg. Length		611.5	450.0	635.1		632.0		615.0		665.0		
Std. Error		8.5		6.0		17.9						
Sample Size		90	1	138		15		1		1		
All Fish												
Avg. Length		577.5	450.0	607.0		618.3		638.3		665.0		
Std. Error		5.6		5.0		14.0		36.6				
Sample Size		366	1	423		32		3		1		

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Hackett River - Weir (Canada) 111-32-260												
Male												
Avg. Length		492.8		524.2		549.5						
Std. Error		22.0		12.7		26.5						
Sample Size		14		22		2						
Female												
Avg. Length		547.4		555.8		533.3						
Std. Error		11.1		7.7		18.2						
Sample Size		10		18		3						
All Fish												
Avg. Length		515.5		538.4		539.8						
Std. Error		14.5		8.1		13.6						
Sample Size		24		40		5						
Snettisham Hatchery - Weir 111-33-XXX												
Male												
Avg. Length		543.0		560.0	355.0	667.5						
Std. Error		5.4				42.5						
Sample Size		161		1	1	2						
Female												
Avg. Length		604.5		687.5		688.8						
Std. Error		4.2		37.5		10.3						
Sample Size		149		2		4						
All Fish												
Avg. Length		572.6		645.0	355.0	681.7						
Std. Error		3.9		47.7		13.5						
Sample Size		310		3	1	6						

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Auke Creek - Weir 111-50-042												
Male												
Avg. Length		670.0		641.5		633.3		659.3				
Std. Error		18.8		6.6		6.8		11.6				
Sample Size		5		41		33		7				
Female												
Avg. Length		675.0		632.1		656.4		675.0			685.0	
Std. Error				24.1		5.1		10.7				
Sample Size		1		28		25		5			1	
All Fish												
Avg. Length		670.8		637.7		643.3		665.8			685.0	
Std. Error		15.4		10.4		4.7		8.1				
Sample Size		6		69		58		12			1	
Montana Creek - Carcass 111-50-052												
Male												
Avg. Length		625.8		589.8		594.1						
Std. Error		6.3		8.5		15.5						
Sample Size		13		21		11						
Female												
Avg. Length		630.0		639.6		635.0		615.0				
Std. Error		8.8		5.9		15.7						
Sample Size		17		34		5		1				
All Fish												
Avg. Length		628.2		620.5		606.9		615.0				
Std. Error		5.6		5.8		12.4						
Sample Size		30		55		16		1				

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Sheldon Jackson College Hatchery - Weir 113-36-XXX												
Male												
Avg. Length	320.0	566.3	395.0	520.0	405.0		425.0					
Std. Error	35.0	2.6			8.2		10.4					
Sample Size	2	448	1	1	4		3					
Female												
Avg. Length		635.7										
Std. Error		4.6										
Sample Size		88										
All Fish												
Avg. Length	320.0	577.7	395.0	520.0	405.0		425.0					
Std. Error	35.0	2.6			8.2		10.4					
Sample Size	2	536	1	1	4		3					
Sawmill Creek - Hook and Line 113-41-021												
Male												
Avg. Length				700.0		645.0						
Std. Error				40.0								
Sample Size				2		1						
Female												
Avg. Length		660.0		650.0								
Std. Error												
Sample Size		1		1								
All Fish												
Avg. Length		660.0		683.3		645.0						
Std. Error				28.5								
Sample Size		1		3		1						

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Salmon Lake - Weir 113-41-032												
Male												
Avg. Length			327.0		357.2	414.7	358.9		353.0			
Std. Error					3.1	31.2	4.7		6.0			
Sample Size			1		9	3	14		4			
Female												
Avg. Length				683.0		615.0		730.0				
Std. Error												
Sample Size				1		1		1				
All Fish												
Avg. Length			327.0	683.0	357.2	464.8	334.9	730.0	353.0			
Std. Error					3.1	54.7	24.3		6.0			
Sample Size			1	1	9	4	15	1	4			
Redoubt Lake - Weir 113-41-043												
Male												
Avg. Length		531.2		589.1		577.9						
Std. Error		16.7		15.5		29.7						
Sample Size		13		16		7						
Female												
Avg. Length		537.5		523.8		583.3						
Std. Error		27.5		17.2		14.8						
Sample Size		2		4		3						
All Fish												
Avg. Length		532.0		576.0		579.5						
Std. Error		14.7		14.1		20.7						
Sample Size		15		20		10						

-Continued-

Table 23. Average length (mm) and standard error, by sex and age of coho salmon sampled from escapements in Southeastern Alaska, 1985 (continued).

	Brood Year and Age Class											
	1983	1982		1981		1980		1979		1978		1977
Location Sampled Stream Number	1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0
Ford Arm Lake - Weir 113-73-003												
Male												
Avg. Length	280.0	627.9	340.5	665.1	386.2	663.8	394.3	676.9	383.4		684.4	530.0
Std. Error	21.5	24.6	35.5	5.6	9.6	4.1	10.8	6.8	5.9		12.6	
Sample Size	3	9	2	61	15	101	35	36	18		5	1
Female												
Avg. Length		690.2		643.4		658.8		682.8			683.9	
Std. Error		20.5		7.8		8.2		4.9			10.3	
Sample Size		6		51		97		48			8	
All Fish												
Avg. Length	280.0	652.8	340.5	655.2	386.2	661.4	416.9	680.2	383.4		684.1	530.0
Std. Error	21.5	18.3	35.5	4.8	9.6	4.5	16.2	4.1	5.9		7.6	
Sample Size	3	15	2	112	15	198	36	81	18		13	1
Berner River - Carcass 115-20-010												
Male												
Avg. Length		631.6		654.5		681.3		694.0				
Std. Error		6.9		5.3		14.2		10.0				
Sample Size		79		129		12		2				
Female												
Avg. Length		665.0		671.0		691.6						
Std. Error		5.5		3.8		7.6						
Sample Size		42		85		10						
All Fish												
Avg. Length		643.2		661.0		686.0		694.0				
Std. Error		5.1		3.6		8.4		10.0				
Sample Size		121		214		22		2				

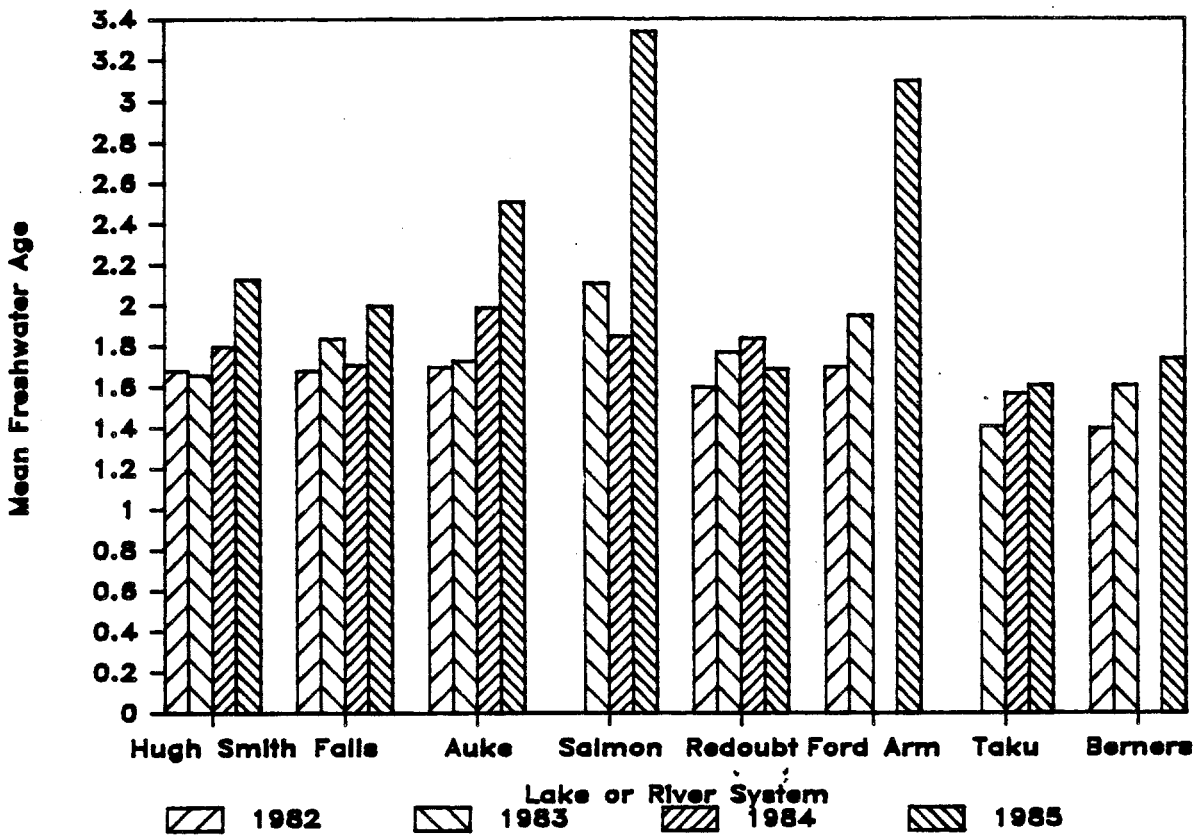

Figure 12. Mean freshwater age of coho salmon sampled in escapements at selected Southeastern Alaska lakes and rivers for the years 1982, 1983, 1984, and 1985.

River, 1.70 to 2.51 years for Auke Lake. For the outer coastal systems age structure for outmigrating smolts has increased from 1.85 to 3.34 years for Salmon Lake and 1.70 to 3.10 years for Ford Arm Lake (NSC; Table 24). In the previous two years we had five brood years and seven age classes sampled within the region, but in 1985 we have seven brood years and twelve age classes. This increase in age classes occurs in the older freshwater ages from 4.0, 5.0, 4.2, 5.1, and 6.0. This is an indication of longer freshwater residency, probably due to colder temperatures (Figure 6) slowing freshwater growth and delaying smoltification for an additional year or years (Crone and Bond 1976). This shift toward older freshwater age is seen in the smolt scales taken at Salmon Lake in the spring of 1985, where 19% of the smolts were aged 4.0 or older (Table 25).

There was a large variability in sex composition between wild stock systems. Of the seven systems with more than 100 fish sampled, females comprised better than 55% in 2 systems and less than 45% in 4 systems. Possible inaccurate sexing of bright fish and non-random sampling of zero-ocean males, i.e. jacks, might result in a large variability in sex compositions.

For a given age, females tended to be longer than males in most systems (NSC). This was true for fish age 1.1 in 10 of 12 stocks for fish aged 2.1 in 9 of 12 stocks and for fish aged 3.1 in 7 of 10 stocks. Fish sampled from the Stikine and Taku Rivers had some of the smallest mean lengths, however, fishwheels may tend to be selective towards smaller fish. The fish sampled at the Hackett Lake weir on the Taku River system in Canada also showed a smaller length than those sampled in the lower river (NSC). The mean length of fish aged 2.1 was larger than fish aged 1.1 in 8 of 12 systems and fish aged 3.1 were larger than fish aged 2.1 in 9 of 12 systems. These data indicate a tendency for fish who smolt at an older age to be larger as adults. Also, the tendency of smolts to have a longer average length at outmigration gives this observation some merit. The overall lengths in comparable systems in 1985 were smaller than in 1984, but larger than in 1983.

Table 24. Comparison of coho salmon age composition between years 1982, 1983, 1984, and 1985 for selected Southeastern Alaska escapements.

System	Stream Number	Year	Sample Size	Percent by Age Class												Mean Freshwater Age
				1.0	1.1	2.0	2.1	3.0	3.1	4.0	4.1	5.0	4.2	5.1	6.0	
Hugh Smith Lake	101-30-075	1982	355		34.6	2.0	60.9		2.5							1.68
		1983	490	1.0	37.6	4.1	53.0	0.4	3.9							1.66
		1984	777		22.6	1.3	73.1		3.0							1.80
		1985	538		11.9	1.3	47.0	1.5	34.9	0.4	3.0					2.13
Falls Lake	109-20-013	1982	85		36.5		58.8		4.7							1.68
		1983	125		16.0		84.0									1.84
		1984	126		31.7	1.6	63.5		3.2							1.71
		1985	23		13.0		73.9		13.0							2.00
Taku River Fishwheel	111-32-032	1982														
		1983	123		59.3		40.7									1.41
		1984	630	0.2	43.0	0.3	56.0		0.5							1.57
		1985	826		44.3	0.1	51.2		3.9		0.4	0.1				1.61
Auke Lake	111-50-042	1982	160		38.9		51.7		9.4							1.70
		1983	374		30.2	0.3	66.0		3.5							1.73
		1984	494	0.6	7.5	19.2	66.0	2.6	4.0							1.99
		1985	146		4.1		47.3		39.7		8.2					2.51
Salmon Lake	113-41-032	1982														
		1983	148		8.1	13.5	61.6	4.7	11.5		0.7					2.11
		1984	457	1.3	16.8	31.3	46.4	2.0	2.0		2.0					1.85
		1985	35			2.9	2.9	25.7	11.4	42.9	2.9	11.4				3.34
Redoubt Lake	113-41-043	1982	66		45.5		51.5	1.5	1.5							1.60
		1983	446		24.7	2.9	71.5	0.2	0.7							1.77
		1984	474	1.5	16.9	11.8	67.1		2.7							1.84
		1985	45		33.3		44.4		22.2							1.69
Ford Arm Lake	113-73-003	1982	365		31.8	0.2	66.6		1.4							1.70
		1983	371		10.8	8.4	67.1	4.0	9.4	0.3						1.95
		1984														
		1985	496	0.6	3.0	0.4	22.6	3.0	39.9	7.1	16.9	3.6		2.6	0.2	3.10
Berners River	115-20-010	1982	336	0.3	60.1		39.0		0.6							1.40
		1983	632		39.4		60.4		0.2							1.61
		1984														
		1985	359		33.7		59.6		6.1		0.6					1.74

Table 25. Age composition and average length (mm) of out migrating coho smolt from Salmon Lake (Stream No. 113-41-032), 1985.

	Brood Year and Age Class						
	1983	1982	1981	1980	1979	1978	
	1.0	2.0	3.0	4.0	5.0	6.0	Total
Sampling Dates: April 28 to May 28							
Sample Size	8	125	61	34	11	1	240
Percent	3.3	52.1	25.4	14.2	4.6	0.4	100.0
Std. Error	1.2	3.2	2.8	2.3	1.4		
Ave. Length	83.9	96.6	111.3	133.1	152.0	143.0	
Std. Error	6.4	0.8	1.7	3.3	3.7		

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APPEMDIX A - Abundance, Age, Sex, and Size Data

Appendix Table A1. Sample size needed to describe the age compositon of a three-age class population of increasing size with an accuracy of ±5% and a precision of 0.10.

Population Size	Number Needed In Sample 1/
454	227
554	258
654	268
754	288
854	297
954	308
1,054	317
1,154	326
1,254	333
1,354	340
1,454	346
1,554	351
1,654	356
1,754	361
1,854	365
1,954	369
2,054	372
2,454	383
3,454	401
4,454	412
5,454	419
6,454	424
7,454	427
8,454	430
9,454	433
10,454	435
20,454	444
30,454	447
40,454	449
50,454	450
100,454	452
Infinite	454

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

$$n = \frac{no}{1 + \frac{(no-1)}{N}}$$

Where: n = adjusted sample size
no = 454 (sample size needed for an infinitely large population)
N = population size

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985.

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
District 101								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		600.0			650.0		540.0	
Std. Error					40.0			
Sample Size		1			2		1	
Statistical Week 28 (July 7 - 13)								
Avg. Length		587.2			611.7		632.5	
Std. Error		7.3			5.5		12.5	
Sample Size		45			51		2	
Statistical Week 29 (July 14 - 20)								
Avg. Length		589.3			600.7		613.0	
Std. Error		4.3			4.9		16.3	
Sample Size		93			48		5	
Statistical Week 30 (July 21 - 27)								
Avg. Length		588.6			602.4		586.7	
Std. Error		6.3			6.2		38.4	
Sample Size		70			47		3	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		603.5			601.8			
Std. Error		10.8			12.4			
Sample Size		42			22			
Statistical Week 32 (August 4 - 10)								
Avg. Length		599.4			613.6			
Std. Error		9.3			16.7			
Sample Size		51			22			
Statistical Week 33 (August 11 - 17)								
Avg. Length		575.8			572.6		610.0	
Std. Error		7.8			10.6			
Sample Size		82			46		1	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		663.2			636.2		635.0	
Std. Error		8.6			7.9			
Sample Size		17			13		1	
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		649.5			633.4		658.3	685.0
Std. Error		5.7			7.4		11.9	
Sample Size		52			45		6	1
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		642.6			661.0		626.7	675.0
Std. Error		6.3			9.6		23.2	
Sample Size		27			15		3	1
Combined Periods (Unweighted)								
Avg. Length		601.2			609.1		623.0	680.0
Std. Error		2.7			3.1		9.5	5.0
Sample Size		480			311		22	2
District 102								
Statistical Week 28 (July 7 - 13)								
Avg. Length		567.7			601.5		590.0	620.0
Std. Error		8.1			9.2		28.4	
Sample Size		28			26		3	1
Statistical Week 30 (July 21 - 27)								
Avg. Length		594.5			589.2		590.0	
Std. Error		6.8			11.5			
Sample Size		62			24		1	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		608.6			612.3		615.0	525.0
Std. Error		6.2			8.4		20.2	
Sample Size		25			11		3	1

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		640.0			613.0			
Std. Error		55.0			17.7			
Sample Size		2			5			
Combined Periods (Unweighted)								
Avg. Length		591.9			599.7		600.7	572.5
Std. Error		4.6			5.9		14.1	47.5
Sample Size		117			66		7	2
District 103								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		602.2			586.9			
Std. Error		15.9			9.8			
Sample Size		9			8			
Statistical Week 29 (July 14 - 20)								
Avg. Length		578.9			582.5			
Std. Error		11.6			9.3			
Sample Size		14			14			
Statistical Week 30 (July 21 - 27)								
Avg. Length		598.4			605.0		545.0	
Std. Error		5.8			7.8			
Sample Size		50			28		1	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		603.0			601.4		586.7	
Std. Error		4.6			5.2		35.9	
Sample Size		90			59		3	
Statistical Week 32 (August 4 - 10)								
Avg. Length		598.9			609.2		596.7	590.0
Std. Error		5.1			5.3		11.8	
Sample Size		93			68		9	1

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 33 (August 11 - 17)								
Avg. Length		617.8			626.7		641.7	
Std. Error		4.6			4.6		9.3	
Sample Size		67			62		3	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		630.0			609.7		630.8	
Std. Error		16.4			6.7		10.3	
Sample Size		10			31		6	
Combined Periods (Unweighted)								
Avg. Length		603.9			609.1		608.4	590.0
Std. Error		2.5			2.5		8.6	
Sample Size		333			270		22	1
District 104								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		593.6			600.0		598.8	
Std. Error		3.8			3.8		6.7	
Sample Size		91			80		8	
Statistical Week 28 (July 7 - 13)								
Avg. Length		579.6			598.1		597.0	
Std. Error		4.8			5.8		11.7	
Sample Size		79			68		5	
Statistical Week 29 (July 14 - 20)								
Avg. Length		582.0			580.7		583.3	
Std. Error		6.3			15.8		18.3	
Sample Size		52			41		3	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		607.7			580.0		607.5	
Std. Error		6.6			10.4		17.5	
Sample Size		33			19		2	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 32 (August 4 - 10)								
Avg. Length		638.7			643.8		701.5	
Std. Error		11.1			8.7		18.5	
Sample Size		15			13		2	
Statistical Week 33 (August 11 - 17)								
Avg. Length		626.2			630.9		640.0	
Std. Error		7.2			4.4		16.5	
Sample Size		53			40		4	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		649.8			645.5		656.0	
Std. Error		4.7			4.6		11.3	
Sample Size		52			47		5	
Combined Periods (Unweighted)								
Avg. Length		604.5			608.6		620.1	
Std. Error		2.5			3.2		7.6	
Sample Size		375			308		29	
District 105								
Statistical Week 31 (July 28 - August 3)								
Avg. Length		600.8			613.1		547.8	615.0
Std. Error		5.6			3.7		68.9	
Sample Size		52			70		9	1
Statistical Week 33 (August 11 - 17)								
Avg. Length		607.6			613.2		632.1	
Std. Error		7.3			6.5		11.7	
Sample Size		37			39		7	
Combined Periods (Unweighted)								
Avg. Length		603.6			613.2		584.7	615.0
Std. Error		4.5			3.3		39.6	
Sample Size		89			109		16	1

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
District 106								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		585.7			603.1			
Std. Error		17.7			7.7			
Sample Size		14			8			
Statistical Week 35 (August 25 - 31)								
Avg. Length		672.2			664.4		631.7	685.0
Std. Error		10.5			9.5		41.1	
Sample Size		9			8		3	1
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		610.8			625.0		669.3	705.0
Std. Error		9.4			13.5		17.4	
Sample Size		28			22		7	1
Combined Periods (Unweighted)								
Avg. Length		614.8			628.7		658.0	695.0
Std. Error		8.3			8.8		16.9	10.0
Sample Size		51			38		10	2
District 109								
Statistical Week 32 (August 4 - 10)								
Avg. Length		611.3			630.7		622.5	610.0
Std. Error		9.5			4.5		11.3	10.8
Sample Size		109			110		16	4
Statistical Week 33 (August 11 - 17)								
Avg. Length		628.7			638.9		661.0	
Std. Error		12.9			8.0		3.8	
Sample Size		22			31		3	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 35 (August 25 - 31)								
Avg. Length		599.0	365.0		631.0		650.0	
Std. Error		12.0			10.5		40.0	
Sample Size		20	1		21		2	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		629.2			637.7		661.7	
Std. Error		5.9			5.9		28.6	
Sample Size		46			47		6	
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		633.3			624.5		623.8	
Std. Error		3.2			9.6		9.9	
Sample Size		9			11		4	
Combined Periods (Unweighted)								
Avg. Length		617.0	365.0		633.0		635.7	610.0
Std. Error		5.5			3.0		8.6	10.8
Sample Size		206	1		220		31	4
District 110								
Statistical Week 29 (July 14 - 20)								
Avg. Length		560.0			580.0		605.0	
Std. Error		38.4			28.0			
Sample Size		4			8		1	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		562.8			619.5		578.2	
Std. Error		18.9			9.8		5.6	
Sample Size		12			17		5	
Statistical Week 32 (August 4 - 10)								
Ave. Length		557.6			566.9		524.0	
Std. Error		16.3			25.1			
Sample Size		8			7		1	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 33 (August 11 - 17)								
Avg. Length		588.6			608.2		599.0	
Std. Error		7.2			7.5		21.0	
Sample Size		49			42		2	
Statistical Week 35 (August 25 - 31)								
Avg. Length		574.4			629.4			605.0
Std. Error		15.8			12.8			
Sample Size		17			16			1
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		610.0			610.0		615.0	
Std. Error		16.7					5.0	
Sample Size		4			1		2	
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		520.0			635.0			
Std. Error								
Sample Size		1			1			
Combined Periods (Unweighted)								
Avg. Length		579.2			608.7		586.2	605.0
Std. Error		5.7			5.6		8.6	
Sample Size		95			92		11	1
District 112								
Statistical Week 28 (July 7 - 13)								
Avg. Length	615.0	586.0			610.2			
Std. Error		7.1			7.0			
Sample Size	1	42			40			
Statistical Week 29 (July 14 - 20)								
Avg. Length		551.9			586.7			
Std. Error		13.6			47.8			
Sample Size		18			3			

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 35 (August 25 - 31)								
Avg. Length		637.3	455.0		657.4		657.5	
Std. Error		8.5			6.5		20.2	
Sample Size		33	1		31		4	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		600.0			672.5		710.0	
Std. Error		100.0			20.3			
Sample Size		2			4		1	
Combined Periods (Unweighted)								
Avg. Length	615.0	597.6	455.0		631.2		668.0	
Std. Error		6.1			5.6		18.8	
Sample Size	1	95	1		78		5	
District 113								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		607.3			605.7		591.7	
Std. Error		11.3			9.4		28.6	
Sample Size		15			27		6	
Statistical Week 28 (July 7 - 13)								
Avg. Length		634.9			633.7		651.3	
Std. Error		3.2			3.7		5.2	
Sample Size		54			54		4	
Statistical Week 29 (July 14 - 20)								
Avg. Length		609.4			600.2		621.9	
Std. Error		4.4			5.3		15.1	
Sample Size		115			66		8	
Statistical Week 30 (July 21 - 27)								
Avg. Length		590.9			592.8		598.8	
Std. Error		4.4			5.2		11.4	
Sample Size		81			62		4	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 31 (July 28 - August 3)								
Avg. Length		617.3			632.0		570.0	
Std. Error		5.2			5.3			
Sample Size		60			41		1	
Statistical Week 32 (August 4 - 10)								
Avg. Length		622.7			639.4		648.8	645.0
Std. Error		6.6			5.3		13.4	
Sample Size		66			69		4	1
Statistical Week 33 (August 11 - 17)								
Avg. Length		624.6			635.5		635.7	637.5
Std. Error		4.2			3.7		7.5	27.5
Sample Size		148			145		21	2
Statistical Week 35 (August 25 - 31)								
Avg. Length		673.8			673.5	290.0	667.9	690.0
Std. Error		3.6			3.0		10.1	10.0
Sample Size		256			273	1	45	2
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		638.6			634.8		632.0	620.0
Std. Error		5.6			4.0		12.3	
Sample Size		73			115		25	1
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		674.3			676.5		662.8	700.0
Std. Error		4.3			3.3		7.3	
Sample Size		61			100		20	1
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		647.2			662.1		664.0	
Std. Error		5.3			4.1		8.6	
Sample Size		27			31		5	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Combined Periods (Unweighted)								
Avg. Length		637.7			645.1	290.0	646.6	660.0
Std. Error		1.8			1.6		4.7	13.8
Sample Size		956			983	1	143	7
District 114								
Statistical Week 28 (July 7 - 13)								
Avg. Length		591.4			613.7		615.0	
Std. Error		7.7			7.7			
Sample Size		39			42		1	
Statistical Week 29 (July 14 - 20)								
Avg. Length		592.7			598.1		631.7	615.0
Std. Error		6.7			8.2		31.7	
Sample Size		64			49		3	1
Statistical Week 30 (July 21 - 27)								
Avg. Length	555.0	601.7			605.7		600.0	
Std. Error		15.0			11.0		5.0	
Sample Size	1	18			21		3	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		620.3			636.3		664.0	
Std. Error		6.0			4.7		16.2	
Sample Size		77			60		5	
Statistical Week 32 (August 4 - 10)								
Avg. Length		599.6			603.4			
Std. Error		10.1			11.4			
Sample Size		35			31			
Statistical Week 33 (August 11 - 17)								
Avg. Length		601.9			603.6		632.5	
Std. Error		11.8			12.0		2.5	
Sample Size		31			29		2	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 35 (August 25 - 31)								
Avg. Length		631.8			656.9		675.7	651.0
Std. Error		10.2			8.8		7.7	6.0
Sample Size		100			119		26	2
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		661.7			666.1		680.1	690.0
Std. Error		3.5			3.1		6.7	20.0
Sample Size		157			176		26	2
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		676.6			684.7		695.8	
Std. Error		3.2			2.5		8.1	
Sample Size		125			192		17	
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		667.1			679.2		662.5	690.0
Std. Error		4.9			3.3		12.2	5.0
Sample Size		53			95		19	2
Combined Periods (Unweighted)								
Avg. Length	555.0	638.4			655.5		672.2	668.1
Std. Error		2.5			2.2		4.3	12.2
Sample Size	1	699			814		102	7
District 116								
Statistical Week 28 (July 7 - 13)								
Avg. Length		586.3			599.6		605.0	
Std. Error		21.0			10.4		5.0	
Sample Size		8			14		2	
Statistical Week 31 (July 28 - August 3)								
Avg. Length		630.2			635.4		618.3	
Std. Error		4.7			5.0		30.9	
Sample Size		75			56		3	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 35 (August 25 - 31)								
Avg. Length		665.0			672.6		684.0	
Std. Error		4.3			4.9		13.5	
Sample Size		64			88		7	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		675.5			655.7		685.0	640.0
Std. Error		6.3			12.2		65.0	
Sample Size		19			21		2	1
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		665.5	682.5		647.3		683.0	715.0
Std. Error		6.3	2.5		10.3		8.3	
Sample Size		20	2		30		5	1
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		650.0			661.2		645.0	
Std. Error		4.9			3.4		10.0	
Sample Size		16			30		2	
Combined Periods (Unweighted)								
Avg. Length		648.8	682.5		653.5		663.2	677.5
Std. Error		2.9	2.5		3.1		10.1	37.5
Sample Size		202	2		239		21	2
District 154								
Statistical Week 28 (July 7 - 13)								
Avg. Length		611.5			622.6		650.0	
Std. Error		9.8			9.4			
Sample Size		23			27		1	
Statistical Week 29 (July 14 - 20)								
Avg. Length		593.8			603.9		665.0	
Std. Error		5.9			6.8			
Sample Size		13			9		1	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 30 (July 21 - 27)								
Avg. Length		605.6			623.6		625.0	
Std. Error		4.9			4.8			
Sample Size		44			39		1	
Combined Periods (Unweighted)								
Avg. Length		605.4			620.9		646.7	
Std. Error		4.0			4.3		11.7	
Sample Size		80			75		3	
District 157								
Statistical Week 28 (July 7 - 13)								
Avg. Length		612.0			625.0			
Std. Error		8.0			5.4			
Sample Size		32			35			
District 181								
Statistical Week 33 (August 11 - 17)								
Avg. Length		611.3			588.1		620.0	
Std. Error		9.3			18.6		25.2	
Sample Size		8			13		3	
Statistical Week 38 (Sept. 15 - 21)								
Avg. Length		642.8			654.7			
Std. Error		10.2			7.1			
Sample Size		18			31			
Combined Periods (Unweighted)								
Avg. Length		633.1			635.0		620.0	
Std. Error		8.1			8.7		25.2	
Sample Size		26			44		3	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Northern Outside 1/								
Statistical Week 31 (July 28 - August 3)								
Avg. Length		616.4			616.5		628.3	
Std. Error		5.9			6.3		8.3	
Sample Size		53			34		3	
Statistical Week 32 (August 4 - 10)								
Avg. Length		630.3			652.2		650.0	620.0
Std. Error		5.4			5.2		13.0	
Sample Size		88			78		6	1
Statistical Week 33 (August 11 - 17)								
Avg. Length		624.7			626.5		685.0	
Std. Error		7.4			14.5		5.0	
Sample Size		35			24		2	
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		666.2			669.5		690.0	
Std. Error		5.2			4.9		8.2	
Sample Size		29			48		5	
Combined Periods (Unweighted)								
Avg. Length		630.9			646.8		662.8	620.0
Std. Error		3.3			3.6		8.2	
Sample Size		205			184		16	1
Southern Outside 2/								
Statistical Week 27 (June 30 - July 6)								
Avg. Length		566.0			586.0			
Std. Error		16.7			8.3			
Sample Size		10			20			

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Statistical Week 29 (July 14 - 20)								
Avg. Length		589.0			593.8		605.0	
Std. Error		5.3			6.7			
Sample Size		54			47		1	
Statistical Week 30 (July 21 - 27)								
Avg. Length		566.0			604.1			
Std. Error		21.0			8.6			
Sample Size		30			16			
Statistical Week 33 (August 11 - 17)								
Avg. Length		584.6			605.9		612.5	
Std. Error		14.3			13.0		27.5	
Sample Size		13			17		2	
Statistical Week 36 (Sept. 1 - 7)								
Avg. Length		636.5			631.3		612.5	
Std. Error		9.4			8.2		27.5	
Sample Size		13			8		2	
Statistical Week 37 (Sept. 8 - 14)								
Avg. Length		629.4			629.0		634.5	
Std. Error		5.7			6.1		9.9	
Sample Size		42			36		11	
Combined Periods (Unweighted)								
Avg. Length		597.3			606.2		627.2	
Std. Error		5.2			3.7		8.1	
Sample Size		162			144		16	

-Continued-

Appendix Table A2. Number, average length (mm), and standard error of mean of coho salmon sampled from troll gear by district, week, and age, 1985 (continued).

	Brood Year and Age Class							
	1983	1982		1981			1980	1979
	0.1	1.1	2.0	1.2	2.1	3.0	3.1	4.1
Southern Inside 3/								
Statistical Week	28 (July 7 - 13)							
Avg. Length		566.9			589.4			
Std. Error		6.3			7.2			
Sample Size		39			34			

1/ Includes samples from a combination of Districts 113, 114, 116, 154, 157, 181, and 189.
2/ Includes samples from a combination of Districts 103, 104, and 152.
3/ Includes samples from a combination of Districts 101, 102, 105, 106, 107, and 108.

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985.

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 101							
Statistical Week 32 (August 4 - 10)							
Male							
Avg. Length							
Std. Error							
Sample Size							
Female							
Avg. Length							
Std. Error							
Sample Size							
All Fish							
Avg. Length		558.3		585.8			
Std. Error		21.1		24.1			
Sample Size		12		6			
Statistical Week 36 (Sept. 1 - 7)							
Male							
Avg. Length							
Std. Error							
Sample Size							
Female							
Avg. Length							
Std. Error							
Sample Size							
All Fish							
Avg. Length	286.2		358.8		328.0		
Std. Error	57.9		6.3				
Sample Size	6		8		1		

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Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Combined Periods (Unweighted)							
Male							
Avg. Length							
Std. Error							
Sample Size							
Female							
Avg. Length							
Std. Error							
Sample Size							
All Fish							
Ave. Length	286.2	558.3	358.8	585.8	328.0		
Std. Error	57.9	21.1	6.3	24.1			
Sample Size	6	12	8	6	1		
District 103							
Statistical Week 33 (August 11 - 17)							
Male							
Avg. Length		603.2		590.7		604.6	
Std. Error		11.3		6.5		16.9	
Sample Size		33		60		9	
Female							
Avg. Length		595.1		594.6		595.0	
Std. Error		6.3		10.9		20.0	
Sample Size		37		19		2	
All Fish							
Avg. Length		599.0		591.6		602.8	
Std. Error		6.2		5.5		14.0	
Sample Size		70		79		11	

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Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Statistical Week 34 (August 18 - 24)							
Male							
Avg. Length		618.1		612.8		600.0	
Std. Error		11.7		10.0		15.0	
Sample Size		8		13		2	
Female							
Avg. Length		608.5		590.8			
Std. Error		16.3		20.0			
Sample Size		13		6			
All Fish							
Avg. Length		612.1		605.8		600.0	
Std. Error		10.9		9.3		15.0	
Sample Size		21		19		2	
Combined Periods (Unweighted)							
Male							
Avg. Length		606.1		594.6		603.7	
Std. Error		9.3		5.7		13.8	
Sample Size		41		73		11	
Female							
Avg. Length		598.6		593.7		595.0	
Std. Error		6.3		9.4		20.0	
Sample Size		50		25		2	
All Fish							
Avg. Length		602.0		594.4		602.4	
Std. Error		5.4		4.8		11.8	
Sample Size		91		98		13	

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 104							
Statistical Week 28 (July 7 - 13)							
Male							
Avg. Length							
Std. Error							
Sample Size							
Female							
Avg. Length							
Std. Error							
Sample Size							
All Fish							
Avg. Length		553.5		579.1		583.3	
Std. Error		8.3		8.2		16.4	
Sample Size		31		35		3	
Statistical Week 32 (August 4 - 10)							
Male							
Avg. Length		614.9		626.8		653.0	
Std. Error		11.9		7.9			
Sample Size		34		33		1	
Female							
Avg. Length		584.4		641.5		593.3	
Std. Error		11.6		11.3		31.8	
Sample Size		34		20		3	
All Fish							
Avg. Length		599.6		632.4		608.3	
Std. Error		8.5		6.5		27.0	
Sample Size		68		53		4	

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Combined Periods (Unweighted)							
Male							
Avg. Length		614.9		626.8		653.0	
Std. Error		11.9		7.9			
Sample Size		34		33		1	
Female							
Avg. Length		584.4		641.5		593.3	
Std. Error		11.6		11.3		31.8	
Sample Size		34		20		3	
All Fish							
Avg. Length		585.2		611.2		597.6	
Std. Error		6.7		5.8		16.5	
Sample Size		99		88		7	
District 105							
Statistical Week 34 (August 18 - 24)							
Male							
Avg. Length		571.7		600.5		633.3	
Std. Error		13.3		10.9		18.8	
Sample Size		29		28		3	
Female							
Avg. Length		592.9		597.3		607.5	
Std. Error		13.4		11.6		2.5	
Sample Size		19		15		2	
All Fish							
Avg. Length		580.1		599.4		623.0	
Std. Error		9.7		8.1		12.1	
Sample Size		48		43		5	

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Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 106							
Statistical Week 35 (August 25 - 31)							
Male							
Avg. Length		637.0		620.0		690.0	
Std. Error		15.9		10.0			
Sample Size		10		3		1	
Female							
Avg. Length		618.9		652.5		650.0	670.0
Std. Error		22.2		11.8			
Sample Size		9		8		1	1
All Fish							
Avg. Length		628.4		643.6		670.0	670.0
Std. Error		13.2		9.8		20.0	
Sample Size		19		11		2	1
District 109							
Statistical Week 32 (August 4 - 10)							
Male							
Avg. Length		587.5		620.0		606.0	
Std. Error		9.3		12.8		25.6	
Sample Size		32		18		5	
Female							
Avg. Length		568.8		596.8		580.0	
Std. Error		11.7		15.9			
Sample Size		20		17		1	
All Fish							
Avg. Length		580.3		608.7		601.7	
Std. Error		7.3		10.2		21.4	
Sample Size		52		35		6	

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Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Statistical Week 34 (August 18 - 24)							
Male							
Avg. Length		603.6		595.4			
Std. Error		11.5		9.7			
Sample Size		21		23			
Female							
Avg. Length		597.4		615.7		642.5	
Std. Error		9.0		11.0		27.5	
Sample Size		19		21		2	
All Fish							
Avg. Length		600.6		605.1		642.5	
Std. Error		7.3		7.4		27.5	
Sample Size		40		44		2	
Combined Periods (Unweighted)							
Male							
Avg. Length		593.9		606.2		606.0	
Std. Error		7.3		7.9		25.6	
Sample Size		53		41		5	
Female							
Avg. Length		582.7		607.2		621.7	
Std. Error		7.7		9.4		26.2	
Sample Size		39		38		3	
All Fish							
Avg. Length		589.1		606.7		611.9	
Std. Error		5.3		6.1		17.8	
Sample Size		92		79		8	

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 110							
Statistical Week 31 (July 28 - August 3)							
Male							
Avg. Length		580.0		602.8		680.0	
Std. Error		14.2		9.0			
Sample Size		22		16		1	
Female							
Avg. Length		574.7		602.5		620.0	
Std. Error		9.0		11.0			
Sample Size		33		20		1	
All Fish							
Avg. Length		576.8		602.6		650.0	
Std. Error		7.7		7.2		30.0	
Sample Size		55		36		2	
Statistical Week 32 (August 4 - 10)							
Male							
Avg. Length		586.8		632.6		575.0	
Std. Error		8.5		11.2			
Sample Size		61		36		1	
Female							
Avg. Length		576.4		607.4		635.0	
Std. Error		6.0		9.3			
Sample Size		70		35		1	
All Fish							
Avg. Length		582.8		622.2		605.0	
Std. Error		5.1		7.3		30.0	
Sample Size		135		73		2	

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Combined Periods (Unweighted)							
Male							
Avg. Length		585.0		623.5		627.5	
Std. Error		7.3		8.4		52.5	
Sample Size		83		52		2	
Female							
Avg. Length		575.9		605.6		627.5	
Std. Error		5.0		7.1		7.5	
Sample Size		103		55		2	
All Fish							
Avg. Length		581.1		615.7		627.5	
Std. Error		4.2		5.5		21.7	
Sample Size		190		109		4	
District 112							
Statistical Week 29 (July 14 - 20)							
Male							
Avg. Length							
Std. Error							
Sample Size							
Female							
Avg. Length							
Std. Error							
Sample Size							
All Fish							
Avg. Length		568.8		584.8		580.0	
Std. Error		14.0		12.0		50.0	
Sample Size		16		20		2	

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Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Statistical Week 34 (August 18 - 24)							
Male							
Avg. Length		578.0		606.6		643.8	
Std. Error		15.0		9.8		17.0	
Sample Size		23		25		4	
Female							
Avg. Length		590.0		606.4		655.0	500.0
Std. Error		14.3		14.3			
Sample Size		6		7		1	1
All Fish							
Avg. Length		593.9		617.7		640.0	500.0
Std. Error		6.8		5.1		10.9	
Sample Size		82		97		7	1
Combined Periods (Unweighted)							
Male							
Avg. Length		578.0		606.6		643.8	
Std. Error		15.0		9.8		17.0	
Sample Size		23		25		4	
Female							
Avg. Length		590.0		606.4		655.0	500.0
Std. Error		14.3		14.3			
Sample Size		6		7		1	1
All Fish							
Avg. Length		589.8		612.1		626.7	500.0
Std. Error		6.2		4.8		14.7	
Sample Size		98		117		9	1

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
District 113							
Statistical Week 30 (July 21 - 27)							
Male							
Avg. Length		581.3		561.4			
Std. Error		30.0		21.0			
Sample Size		4		7			
Female							
Avg. Length		566.0		655.0			
Std. Error		30.6					
Sample Size		5		1			
All Fish							
Avg. Length		572.8		573.1			
Std. Error		20.4		21.6			
Sample Size		9		8			
Statistical Week 32 (August 4 - 10)							
Male							
Avg. Length		606.9		629.8		629.0	
Std. Error		13.4		9.3		15.8	
Sample Size		27		25		5	
Female							
Avg. Length		610.7		634.4		600.0	
Std. Error		12.9		14.1		79.4	
Sample Size		21		25		3	
All Fish							
Avg. Length		608.5		632.1		618.1	
Std. Error		9.3		8.3		28.1	
Sample Size		48		50		8	

-Continued-

Appendix Table A3. Number, average length (mm) and standard error of mean of coho salmon sampled from purse seine gear by district, sex, week, and age, 1985 (continued).

	Brood Year and Age Class						
	1983	1982		1981		1980	1979
	1.0	1.1	2.0	2.1	3.0	3.1	4.1
Statistical Week 34 (August 18 - 24)							
Male							
Avg. Length		600.2		618.3		630.0	
Std. Error		13.7		12.0		30.0	
Sample Size		21		29		2	
Female							
Avg. Length		596.9		577.5			
Std. Error		14.9		21.4			
Sample Size		13		10			
All Fish							
Avg. Length		599.0		605.9		630.0	
Std. Error		10.0		10.6		30.0	
Sample Size		34		41		2	
Combined Periods (Unweighted)							
Male							
Avg. Length		602.2		616.5		629.3	
Std. Error		9.1		7.6		12.7	
Sample Size		52		61		7	
Female							
Avg. Length		600.4		619.2		600.0	
Std. Error		9.4		12.1		79.4	
Sample Size		39		36		3	
All Fish							
Avg. Length		601.4		616.5		620.5	
Std. Error		6.5		6.5		22.7	
Sample Size		91		99		10	

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985.

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
District 101				
Statistical Week 27 (June 30 - July 6)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	557.5	591.7		
Std. Error	17.5	18.9		
Sample Size	2	6		
Statistical Week 28 (July 7 - 13)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	579.5	590.0	645.0	
Std. Error	6.9	4.9	10.0	
Sample Size	40	56	3	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Combined Periods (Unweighted)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	578.5	590.2	645.0	
Std. Error	6.6	4.7	10.0	
Sample Size	42	62	3	
District 106				
Statistical Week 26 (June 23 - 29)				
Male				
Avg. Length	583.3	578.3	555.0	
Std. Error	23.3	16.2		
Sample Size	3	6	1	
Female				
Avg. Length	571.7	578.8		
Std. Error	11.7	12.6		
Sample Size	3	4		
All Fish				
Avg. Length	577.5	578.5	555.0	
Std. Error	12.0	10.4		
Sample Size	6	10	1	

-Continued-

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 27 (June 30 - July 6)				
Male				
Avg. Length	568.3	534.0		
Std. Error	35.6	9.8		
Sample Size	3	5		
Female				
Avg. Length	577.5			
Std. Error	32.5			
Sample Size	2			
All Fish				
Avg. Length	572.2	562.3	627.0	
Std. Error	9.7	10.6		
Sample Size	21	13	1	
Statistical Week 28 (July 7 - 13)				
Male				
Avg. Length	617.5	605.5		
Std. Error	12.5	9.9		
Sample Size	2	19		
Female				
Avg. Length	596.3	594.4	580.0	
Std. Error	19.0	6.7		
Sample Size	4	8	1	
All Fish				
Avg. Length	603.3	602.2	580.0	
Std. Error	13.2	7.2		
Sample Size	6	27	1	

-Continued-

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 29 (July 14 - 20)				
Male				
Avg. Length	593.0	596.0	605.0	
Std. Error	13.4	10.8	7.6	
Sample Size	10	25	3	
Female				
Avg. Length	551.4	597.3		
Std. Error	10.6	9.3		
Sample Size	7	20		
All Fish				
Avg. Length	575.9	596.6	605.0	
Std. Error	10.1	7.2	7.6	
Sample Size	17	45	3	
Statistical Week 30 (July 21 - 27)				
Male				
Avg. Length	579.8	607.1	535.0	
Std. Error	22.6	15.2		
Sample Size	5	9	1	
Female				
Avg. Length	605.0	620.0		
Std. Error		30.0		
Sample Size	1	2		
All Fish				
Avg. Length	600.9	607.2	535.0	
Std. Error	8.2	5.8		
Sample Size	33	53	1	

-Continued-

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 31 (July 28 - August 3)				
Male				
Avg. Length	585.7	577.9	602.5	630.0
Std. Error	7.5	26.5	12.5	
Sample Size	46	33	2	1
Female				
Avg. Length	566.4	585.3	652.5	535.0
Std. Error	11.7	12.2	32.5	
Sample Size	21	20	2	1
All Fish				
Avg. Length	581.6	588.1	615.0	582.5
Std. Error	5.2	13.4	15.5	47.5
Sample Size	93	69	6	2
Statistical Week 32 (August 4 - 10)				
Male				
Avg. Length	585.5	611.0		
Std. Error	9.7	11.6		
Sample Size	30	24		
Female				
Avg. Length	570.0	603.0	580.0	
Std. Error	26.8	7.1		
Sample Size	24	23	1	
All Fish				
Avg. Length	578.6	607.1	580.0	
Std. Error	13.0	6.8		
Sample Size	54	47	1	

-Continued-

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Combined Periods (Unweighted)				
Male				
Avg. Length	586.1	592.9	587.1	630.0
Std. Error	5.0	8.2	11.8	
Sample Size	99	121	7	1
Female				
Avg. Length	569.3	595.2	616.3	535.0
Std. Error	11.2	4.7	24.8	
Sample Size	62	77	4	1
All Fish				
Avg. Length	582.9	596.6	598.7	582.5
Std. Error	4.1	4.2	9.6	47.5
Sample Size	230	264	14	2
District 108				
Statistical Week 35 (August 25 - 31)				
Male				
Avg. Length	623.3	618.8	647.5	
Std. Error	9.9	9.8	7.5	
Sample Size	18	17	2	
Female				
Avg. Length	620.4	629.7	627.5	615.0
Std. Error	8.0	5.4	37.5	
Sample Size	13	16	2	1
All Fish				
Avg. Length	622.1	624.1	637.5	615.0
Std. Error	6.5	5.7	16.6	
Sample Size	31	33	4	1

-Continued-

Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 36 (Sept. 1 - 7)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	631.3	642.9	640.0	
Std. Error	8.7	4.3	4.7	
Sample Size	20	33	5	
Combined Periods (Unweighted)				
Male				
Avg. Length	623.3	618.8	647.5	
Std. Error	9.9	9.8	7.5	
Sample Size	18	17	2	
Female				
Avg. Length	620.4	629.7	627.5	615.0
Std. Error	8.0	5.4	37.5	
Sample Size	13	16	2	1
All Fish				
Avg. Length	625.7	633.5	638.9	615.0
Std. Error	5.2	3.7	7.3	
Sample Size	51	66	9	1

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
District 111				
Statistical Week 26 (June 23 - 29)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	592.5	589.2		
Std. Error	21.5	17.3		
Sample Size	4	6		
Statistical Week 29 (July 14 - 20)				
Male				
Avg. Length	596.3	619.0		
Std. Error	16.4	13.2		
Sample Size	15	15		
Female				
Avg. Length	573.5	595.0	600.0	
Std. Error	11.7	10.6	11.7	
Sample Size	17	19	4	
All Fish				
Avg. Length	584.2	605.6	600.0	
Std. Error	9.9	8.4	11.7	
Sample Size	32	34	4	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 32 (August 4 - 10)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	581.2	591.7	585.0	
Std. Error	23.8	13.8		
Sample Size	13	12	1	
Statistical Week 33 (August 11 - 17)				
Male				
Avg. Length	561.9	632.5		
Std. Error	32.9	72.5		
Sample Size	8	2		
Female				
Avg. Length	600.0	550.0		
Std. Error	70.0	85.0		
Sample Size	2	2		
All Fish				
Avg. Length	582.6	575.1	560.0	
Std. Error	8.1	16.7		
Sample Size	61	46	1	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 35 (August 25 - 31)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	625.1	662.0		
Std. Error	7.7	8.6		
Sample Size	39	20		
Statistical Week 36 (Sept. 1 - 7)				
Male				
Avg. Length	664.6	656.0	555.0	
Std. Error	13.0	16.1		
Sample Size	13	10	1	
Female				
Avg. Length	633.3	615.0		
Std. Error	20.4	24.6		
Sample Size	6	9		
All Fish				
Avg. Length	659.1	649.0	634.0	
Std. Error	6.3	7.3	28.8	
Sample Size	62	57	5	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 37 (Sept. 8 - 14)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	623.0	615.7	712.5	
Std. Error	24.8	31.0	12.5	
Sample Size	38	43	2	
Statistical Week 38 (Sept. 15 - 21)				
Male				
Avg. Length	642.3	686.2	655.0	
Std. Error	10.5	7.6	40.0	
Sample Size	20	25	2	
Female				
Avg. Length	638.1	679.2	652.5	
Std. Error	10.3	6.3	37.5	
Sample Size	16	24	2	
All Fish				
Avg. Length	640.4	682.8	653.8	
Std. Error	7.3	4.9	22.4	
Sample Siz	36	49	4	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Combined Periods (Unweighted)				
Male				
Avg. Length	623.7	658.9	621.7	
Std. Error	9.1	7.5	40.6	
Sample Size	56	52	3	
Female				
Avg. Length	608.8	634.1	617.5	
Std. Error	8.7	8.6	16.5	
Sample Siz	41	54	6	
All Fish				
Avg. Length	618.0	628.6	632.6	
Std. Error	4.8	6.6	13.7	
Sample Size	285	267	17	
District 115				
Statistical Week 27 (June 30 - July 6)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	578.1	585.7		
Std. Error	17.2	21.6		
Sample Size	8	7		

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 28 (July 7 - 13)				
Male				
Avg. Length				
Std. Error				
Sample Size				
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length	609.1	622.2	665.0	
Std. Error	6.2	6.1		
Sample Size	46	46	1	
Statistical Week 30 (July 21 - 27)				
Male				
Avg. Length	598.9	623.1	600.0	
Std. Error	11.2	11.8		
Sample Size	22	18	1	
Female				
Avg. Length	597.1	582.1		
Std. Error	11.6	12.4		
Sample Size	14	7		
All Fish				
Avg. Length	598.2	611.6	600.0	
Std. Error	8.1	9.8		
Sample Size	36	25	1	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 31 (July 28 - August 3)				
Male				
Avg. Length	564.2	586.6		
Std. Error	14.1	14.9		
Sample Size	19	22		
Female				
Avg. Length	455.0	560.0		
Std. Error				
Sample Size	1	1		
All Fish				
Avg. Length	558.8	585.4		
Std. Error	14.5	14.3		
Sample Size	20	23		
Statistical Week 32 (August 4 - 10)				
Male				
Avg. Length	541.4	591.6		
Std. Error	9.9	17.6		
Sample Size	22	16		
Female				
Avg. Length	566.3	543.8		
Std. Error	22.9	46.6		
Sample Size	8	4		
All Fish				
Avg. Length	559.3	582.0		
Std. Error	8.1	14.0		
Sample Size	48	27		

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 33 (August 11 - 17)				
Male				
Avg. Length	581.4	591.1		
Std. Error	17.1	17.7		
Sample Size	14	19		
Female				
Avg. Length		450.0		
Std. Error				
Sample Size		1		
All Fish				
Avg. Length	581.4	584.0		
Std. Error	17.1	18.2		
Sample Size	14	20		
Statistical Week 34 (August 18 - 24)				
Male				
Avg. Length	584.3	600.5	611.0	510.0
Std. Error	7.2	6.8	15.2	
Sample Size	76	79	5	1
Female				
Avg. Length	575.3	605.9	610.0	
Std. Error	13.1	12.2	5.0	
Sample Size	17	28	2	
All Fish				
Avg. Length	582.8	601.9	610.7	510.0
Std. Error	6.2	5.9	10.5	
Sample Size	95	107	7	1

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 35 (August 25 - 31)				
Male				
Avg. Length	583.9	572.3	522.5	
Std. Error	17.9	25.2	7.5	
Sample Size	14	30	2	
Female				
Avg. Length	584.2	586.9		
Std. Error	38.2	33.6		
Sample Size	6	8		
All Fish				
Avg. Length	584.0	575.4	522.5	
Std. Error	16.4	20.9	7.5	
Sample Size	20	38	2	
Statistical Week 37 (Sept. 8 - 14)				
Male				
Avg. Length	615.0	710.0		
Std. Error				
Sample Size	1	1		
Female				
Avg. Length	680.0	662.5		
Std. Error		22.5		
Sample Size	1	2		
All Fish				
Avg. Length	632.9	669.6	652.5	
Std. Error	7.6	6.0	7.5	
Sample Size	28	35	2	

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Appendix Table A4. Number, average length (mm), and standard error of mean of coho salmon sampled from gillnet gear by district, week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 38 (Sept. 15 - 21)				
Male				
Avg. Length	663.2	673.8	695.0	
Std. Error	10.2	4.1	14.7	
Sample Size	31	54	6	
Female				
Avg. Length	653.8	672.7	643.9	
Std. Error	5.8	5.4	17.7	
Sample Size	24	32	9	
All Fish				
Avg. Length	659.1	673.4	664.3	
Std. Error	6.3	3.2	13.5	
Sample Size	55	86	15	
Combined Periods (Unweighted)				
Male				
Avg. Length	591.5	613.1	633.6	510.0
Std. Error	4.8	5.2	18.5	
Sample Size	199	239	14	1
Female				
Avg. Length	605.6	623.7	637.7	
Std. Error	7.5	7.7	14.9	
Sample Size	71	83	11	
All Fish				
Avg. Length	598.3	619.5	637.7	510.0
Std. Error	3.3	3.6	10.8	
Sample Size	370	414	28	1

Appendix Table A5. Number, average length (mm), and standard error of mean of coho salmon sampled from Canadian commercial gillnet fishery on the Stikine River by week, sex, and age, 1985.

	Brood Year and Age Class		
	1982	1981	1980
	1.1	2.1	3.1
Stikine River			
Statistical Week 31 (July 28 - August 3)			
Male			
Avg. Length	454.0	524.0	515.0
Std. Error	22.0		
Sample Size	2	1	1
Female			
Avg. Length	630.0		
Std. Error	5.0		
Sample Size	2		
All Fish			
Avg. Length	542.0	524.0	515.0
Std. Error	51.6		
Sample Size	4	1	1
Statistical Week 32 (August 4 - 10)			
Male			
Avg. Length	509.9	568.6	
Std. Error	18.7	27.2	
Sample Size	15	7	
Female			
Avg. Length		473.0	
Std. Error			
Sample Size		1	
All Fish			
Avg. Length	509.9	556.6	
Std. Error	18.7	26.4	
Sample Size	15	8	

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Appendix Table A5. Number, average length (mm), and standard error of mean of coho salmon sampled from Canadian commercial gillnet fishery on the Stikine River by week, sex, and age, 1985 (continued).

	Brood Year and Age Class		
	1982	1981	1980
	1.1	2.1	3.1
Statistical Week	33	(August 11 - 17)	
Male			
Avg. Length	546.4	520.1	551.0
Std. Error	9.2	23.2	11.0
Sample Size	63	27	2
Female			
Avg. Length	628.6	616.1	637.0
Std. Error	14.9	19.8	10.0
Sample Size	9	11	2
All Fish			
Avg. Length	556.7	547.9	594.0
Std. Error	8.9	18.7	25.6
Sample Size	72	38	4
Combined Periods (Unweighted)			
Male			
Avg. Length	537.2	529.9	539.0
Std. Error	8.3	18.8	13.6
Sample Size	80	35	3
Female			
Avg. Length	628.8	604.2	637.0
Std. Error	12.1	21.7	10.0
Sample Size	11	12	2
All Fish			
Avg. Length	548.3	548.9	578.2
Std. Error	8.1	15.7	25.3
Sample Size	91	47	5

Appendix Table A6. Number, average length (mm), and standard error of mean of coho salmon sampled from the Canadian test fishery on the Taku River by week, sex, and age, 1985.

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Taku River				
Statistical Week 32 (August 4 - 10)				
Male				
Avg. Length	505.0	545.5		
Std. Error		33.2		
Sample Size	1	6		
Female				
Avg. Length		605.5		
Std. Error		60.5		
Sample Size		2		
All Fish				
Avg. Length	505.0	560.5		
Std. Error		28.6		
Sample Size	1	8		
Statistical Week 33 (August 11 - 17)				
Male				
Avg. Length		594.3		
Std. Error		41.0		
Sample Size		3		
Female				
Avg. Length		483.0		
Std. Error				
Sample Size		1		
All Fish				
Avg. Length		566.5		
Std. Error		40.2		
Sample Size		4		

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Appendix Table A6. Number, average length (mm), and standard error of mean of coho salmon sampled from the Canadian test fishery on the Taku River by week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 34 (August 18 - 24)				
Male				
Avg. Length		544.7		
Std. Error		19.9		
Sample Size		3		
Female				
Avg. Length				
Std. Error				
Sample Size				
All Fish				
Avg. Length		544.7		
Std. Error		19.9		
Sample Size		3		
Statistical Week 36 (Sept. 1 - 7)				
Male				
Avg. Length	595.2	645.5	583.3	
Std. Error	13.3	14.5	55.4	
Sample Size	33	19	4	
Female				
Avg. Length	641.0	646.3	640.0	
Std. Error	13.9	23.4	6.3	
Sample Size	18	7	4	
All Fish				
Avg. Length	611.4	645.7	611.6	
Std. Error	10.3	12.1	27.9	
Sample Size	51	26	8	

-Continued-

Appendix Table A6. Number, average length (mm), and standard error of mean of coho salmon sampled from the Canadian test fishery on the Taku River by week, sex, and age, 1985 (continued).

	Brood Year and Age Class			
	1982	1981	1980	1979
	1.1	2.1	3.1	4.1
Statistical Week 37 (Sept. 8 - 14)				
Male				
Avg. Length	643.1	641.2	658.0	
Std. Error	13.0	13.0	29.2	
Sample Size	23	33	4	
Female				
Avg. Length	632.5	666.5	701.0	601.0
Std. Error	11.5	6.7		
Sample Size	19	22	1	1
All Fish				
Avg. Length	638.3	651.3	666.6	601.0
Std. Error	8.7	8.4	24.2	
Sample Size	42	55	5	1
Combined Periods (Unweighted)				
Male				
Avg. Length	612.9	626.8	620.6	
Std. Error	10.0	9.6	32.2	
Sample Size	57	64	8	
Female				
Avg. Length	636.6	652.5	652.2	601.0
Std. Error	8.9	9.5	13.1	
Sample Size	37	32	5	1
All Fish				
Avg. Length	622.3	635.3	632.8	601.0
Std. Error	7.0	7.2	20.4	
Sample Size	94	96	13	1

Appendix Table A7. Hugh Smith Lake (Stream No. 101-30-075) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	9	1	1	0.00111	0.00111
	10	0	1	0.00000	0.00111
	11	2	3	0.00221	0.00332
	12	1	4	0.00111	0.00443
	13	2	6	0.00221	0.00664
	14	1	7	0.00111	0.00775
	15	0	7	0.00000	0.00775
	16	0	7	0.00000	0.00775
	17	0	7	0.00000	0.00775
	18	0	7	0.00000	0.00775
	19	0	7	0.00000	0.00775
	20	1	8	0.00111	0.00886
	21	1	9	0.00111	0.00997
	22	3	12	0.00332	0.01329
	23	0	12	0.00000	0.01329
	24	2	14	0.00221	0.01550
	25	1	15	0.00111	0.01661
	26	5	20	0.00554	0.02215
	27	0	20	0.00000	0.02215
	28	0	20	0.00000	0.02215
	29	7	27	0.00775	0.02990
	30	4	31	0.00443	0.03433
	31	10	41	0.01107	0.04540
September	1	1	42	0.00111	0.04651
	2	1	43	0.00111	0.04762
	3	7	50	0.00775	0.05537
	4	10	60	0.01107	0.06645
	5	25	85	0.02769	0.09413
	6	27	112	0.02990	0.12403
	7	13	125	0.01440	0.13843
	8	7	132	0.00775	0.14618
	9	12	144	0.01329	0.15947
	10	22	166	0.02436	0.18383
	11	14	180	0.01550	0.19934
	12	19	199	0.02104	0.22038
	13	8	207	0.00886	0.22924
	14	2	209	0.00221	0.23145
	15	8	217	0.00886	0.24031
	16	15	232	0.01661	0.25692
	17	21	253	0.02326	0.28018
	18	8	261	0.00886	0.28904
	19	11	272	0.01218	0.30122

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Appendix Table A7. Hugh Smith Lake (Stream No. 101-30-075) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	20	35	307	0.03876	0.33998
	21	55	362	0.06091	0.40089
	22	12	374	0.01329	0.41417
	23	39	413	0.04319	0.45736
	24	40	453	0.04430	0.50166
	25	20	473	0.02215	0.52381
	26	47	520	0.05205	0.57586
	27	0	520	0.00000	0.57586
	28	20	540	0.02215	0.59801
	29	17	557	0.01883	0.61683
	30	16	573	0.01772	0.63455
October	1	10	583	0.01107	0.64563
	2	6	589	0.00664	0.65227
	3	6	595	0.00664	0.65891
	4	0	595	0.00000	0.65891
	5	4	599	0.00443	0.66334
	6	3	602	0.00332	0.66667
	7	13	615	0.01440	0.68106
	8	4	619	0.00443	0.68549
	9	1	620	0.00111	0.68660
	10	5	625	0.00554	0.69214
	11	10	635	0.01107	0.70321
	12	13	648	0.01440	0.71761
	13	50	698	0.05537	0.77298
	14	17	715	0.01883	0.79181
	15	0	715	0.00000	0.79181
	16	4	719	0.00443	0.79623
	17	1	720	0.00111	0.79734
	18	1	721	0.00111	0.79845
	19	4	725	0.00443	0.80288
	20	2	727	0.00221	0.80509
	21	57	784	0.06312	0.86822
	22	0	784	0.00000	0.86822
	23	2	786	0.00221	0.87043
	24	1	787	0.00111	0.87154
	25	0	787	0.00000	0.87154
	26	0	787	0.00000	0.87154
	27	1	788	0.00111	0.87265
	28	0	788	0.00000	0.87265
	29	2	790	0.00221	0.87486
	30	0	790	0.00000	0.87486
	31	2	792	0.00221	0.87708

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Appendix Table A7. Hugh Smith Lake (Stream No. 101-30-075) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
November	1	0	792	0.00000	0.87708
	2	0	792	0.00000	0.87708
	3	0	792	0.00000	0.87708
	4	0	792	0.00000	0.87708
	5	0	792	0.00000	0.87708
	6	1	793	0.00111	0.87818
	7	0	793	0.00000	0.87818
	8	0	793	0.00000	0.87818
	9	0	793	0.00000	0.87818
	10	0	793	0.00000	0.87818
	11	110 2/	903	0.12182	1.00000

1/ Refer to Appendix Table A24 for counts of jacks.
2/ This number holding below weir on pullout.

Appendix Table A8. Karta River (Stream No. 102-60-087) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
June	23	0	0	0.00000	0.00000
	24	0	0	0.00000	0.00000
	25	1	1	0.00045	0.00045
	26	3	4	0.00136	0.00181
	27	1	5	0.00045	0.00226
	28	23	28	0.01039	0.01265
	29	68	96	0.03073	0.04338
	30	2	98	0.00090	0.04428
July	1	21	119	0.00949	0.05377
	2	40	159	0.01808	0.07185
	3	11	170	0.00497	0.07682
	4	42	212	0.01898	0.09580
	5	31	243	0.01401	0.10981
	6	24	267	0.01085	0.12065
	7	13	280	0.00587	0.12653
	8	11	291	0.00497	0.13150
	9	5	296	0.00226	0.13376
	10	11	307	0.00497	0.13873
	11	22	329	0.00994	0.14867
	12	26	355	0.01175	0.16042
	13	57	412	0.02576	0.18617
	14	30	442	0.01356	0.19973
	15	19	461	0.00859	0.20831
	16	49	510	0.02214	0.23046
	17	119	629	0.05377	0.28423
	18	10	639	0.00452	0.28875
	19	40	679	0.01808	0.30682
	20	63	742	0.02847	0.33529
	21	31	773	0.01401	0.34930
	22	9	782	0.00407	0.35337
	23	17	799	0.00768	0.36105
	24	35	834	0.01582	0.37686
	25	11	845	0.00497	0.38183
	26	10	855	0.00452	0.38635
	27	52	907	0.02350	0.40985
	28	11	918	0.00497	0.41482
	29	23	941	0.01039	0.42521
	30	23	964	0.01039	0.43561
	31	7	971	0.00316	0.43877
August	1	6	977	0.00271	0.44148
	2	29	1,006	0.01310	0.45459

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Appendix Table A8. Karta River (Stream No. 102-60-087) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	3	70	1,076	0.03163	0.48622
	4	33	1,109	0.01491	0.50113
	5	4	1,113	0.00181	0.50294
	6	11	1,124	0.00497	0.50791
	7	37	1,161	0.01672	0.52463
	8	71	1,232	0.03208	0.55671
	9	33	1,265	0.01491	0.57162
	10	108	1,373	0.04880	0.62042
	11	215	1,588	0.09715	0.71758
	12	110	1,698	0.04971	0.76728
	13	25	1,723	0.01130	0.77858
	14	91	1,814	0.04112	0.81970
	15	86	1,900	0.03886	0.85856
	16	29	1,929	0.01310	0.87167
	17	43	1,972	0.01943	0.89110
	18	44	2,016	0.01988	0.91098
	19	62	2,078	0.02802	0.93900
	20	35	2,113	0.01582	0.95481
	21	100 2/	2,213	0.04519	1.00000

1/ Weir pulled before coho migration completed.
2/ Estimated number of coho below weir on pullout.

Appendix Table A9. Klawock River (Stream No. 103-60-047) weir counts of non-jack coho salmon, 1985.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	3	1	1	0.00007	0.00007
	4	6	7	0.00042	0.00048
	5	41	48	0.00284	0.00332
	6	22	70	0.00152	0.00484
	7	22	92	0.00152	0.00637
	8	18	110	0.00125	0.00761
	9	4	114	0.00028	0.00789
	10	0	114	0.00000	0.00789
	11	20	134	0.00138	0.00927
	12	16	150	0.00111	0.01038
	13	17	167	0.00118	0.01156
	14	1	168	0.00007	0.01163
	15	5	173	0.00035	0.01197
	16	4	177	0.00028	0.01225
	17	0	177	0.00000	0.01225
	18	0	177	0.00000	0.01225
	19	0	177	0.00000	0.01225
	20	3	180	0.00021	0.01246
	21	6	186	0.00042	0.01287
	22	1	187	0.00007	0.01294
	23	4	191	0.00028	0.01322
	24	0	191	0.00000	0.01322
	25	0	191	0.00000	0.01322
	26	0	191	0.00000	0.01322
	27	616	807	0.04263	0.05585
	28	252	1,059	0.01744	0.07329
	29	8	1,067	0.00055	0.07384
	30	28	1,095	0.00194	0.07578
	31	0	1,095	0.00000	0.07578
September	1	0	1,095	0.00000	0.07578
	2	0	1,095	0.00000	0.07578
	3	0	1,095	0.00000	0.07578
	4	2,352	3,447	0.16277	0.23855
	5	191	3,638	0.01322	0.25176
	6	1	3,639	0.00007	0.25183
	7	0	3,639	0.00000	0.25183
	8	0	3,639	0.00000	0.25183
	9	0	3,639	0.00000	0.25183
	10	0	3,639	0.00000	0.25183
	11	0	3,639	0.00000	0.25183
	12	328	3,967	0.02270	0.27453

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Appendix Table A9. Klawock River (Stream No. 103-60-047) weir counts of non-jack coho salmon, 1985 (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	13	0	3,967	0.00000	0.27453
	14	0	3,967	0.00000	0.27453
	15	0	3,967	0.00000	0.27453
	16	552	4,519	0.03820	0.31273
	17	472	4,991	0.03266	0.34540
	18	355	5,346	0.02457	0.36997
	19	11	5,357	0.00076	0.37073
	20	876	6,233	0.06062	0.43135
	21	922	7,155	0.06381	0.49516
	22	0	7,155	0.00000	0.49516
	23	56	7,211	0.00388	0.49903
	24	4	7,215	0.00028	0.49931
	25	510	7,725	0.03529	0.53460
	26	590	8,315	0.04083	0.57543
	27	252	8,567	0.01744	0.59287
	28	0	8,567	0.00000	0.59287
	29	0	8,567	0.00000	0.59287
	30	834	9,401	0.05772	0.65059
October	1 1/	193	9,594	0.01336	0.66394
	2	1,430	11,024	0.09896	0.76291
	3 2/	571	11,595	0.03952	0.80242
	4	331	11,926	0.02291	0.82533
	5	4	11,930	0.00028	0.82561
	6	28	11,958	0.00194	0.82754
	7	328	12,286	0.02270	0.85024
	8	300	12,586	0.02076	0.87100
	9	126	12,712	0.00872	0.87972
	10	45	12,757	0.00311	0.88284
	11	113	12,870	0.00782	0.89066
	12	45	12,915	0.00311	0.89377
	13	0	12,915	0.00000	0.89377
	14	262	13,177	0.01813	0.91190
	15	89	13,266	0.00616	0.91806
	16	0	13,266	0.00000	0.91806
	17	0	13,266	0.00000	0.91806
	18	0	13,266	0.00000	0.91806
	19	0	13,266	0.00000	0.91806
	20	0	13,266	0.00000	0.91806
	21	15	13,281	0.00104	0.91910
	22	55	13,336	0.00381	0.92291
	23	0	13,336	0.00000	0.92291

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Appendix Table A9. Klawock River (Stream No. 103-60-047) weir counts of non-jack coho salmon, 1985 (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	24	391	13,727	0.02706	0.94997
	25	15	13,742	0.00104	0.95100
	26	102	13,844	0.00706	0.95806
	27	0	13,844	0.00000	0.95806
	28	0	13,844	0.00000	0.95806
	29	0	13,844	0.00000	0.95806
	30	174	14,018	0.01204	0.97010
	31	147	14,165	0.01017	0.98028
Novermber	1	191	14,356	0.01322	0.99349
	2	0	14,356	0.00000	0.99349
	3	0	14,356	0.00000	0.99349
	4	58	14,414	0.00401	0.99751
	5	0	14,414	0.00000	0.99751
	6	0	14,414	0.00000	0.99751
	7	21	14,435	0.00145	0.99896
	8	15	14,450	0.00104	1.00000

1/ No coho to lake this month due to weir failure. Coho not counted as above weir when sorted, only entered during egg take or give away program.
2/ Discovered 2 pickets out of alignment.

Appendix Table A10. Warm Chuck Lake (Stream No. 103-80-031) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	14	0	0	0.00000	0.00000
	15	0	0	0.00000	0.00000
	16	0	0	0.00000	0.00000
	17	0	0	0.00000	0.00000
	18	0	0	0.00000	0.00000
	19	0	0	0.00000	0.00000
	20	0	0	0.00000	0.00000
	21	0	0	0.00000	0.00000
	22	0	0	0.00000	0.00000
	23	0	0	0.00000	0.00000
	24	0	0	0.00000	0.00000
	25	0	0	0.00000	0.00000
	26	0	0	0.00000	0.00000
	27	2	2	0.00209	0.00209
	28	1	3	0.00105	0.00314
	29	2	5	0.00209	0.00523
	30	2	7	0.00209	0.00732
	31	2	9	0.00209	0.00941
September	1	2	11	0.00209	0.01151
	2	2	13	0.00209	0.01360
	3	0	13	0.00000	0.01360
	4	8	21	0.00837	0.02197
	5	4	25	0.00418	0.02615
	6	1	26	0.00105	0.02720
	7	1	27	0.00105	0.02824
	8	1	28	0.00105	0.02929
	9	0	28	0.00000	0.02929
	10	0	28	0.00000	0.02929
	11	0	28	0.00000	0.02929
	12	0	28	0.00000	0.02929
	13	0	28	0.00000	0.02929
	14	1	29	0.00105	0.03033
	15	34	63	0.03556	0.06590
	16	144	207	0.15063	0.21653
	17	12	219	0.01255	0.22908
	18	4	223	0.00418	0.23326
	19	14	237	0.01464	0.24791
	20	145	382	0.15167	0.39958
	21	76	458	0.07950	0.47908
	22	37	495	0.03870	0.51778
	23	105	600	0.10983	0.62762

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Appendix Table A10. Warm Chuck Lake (Stream No. 103-80-031) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	24	47	647	0.04916	0.67678
	25	36	683	0.03766	0.71444
	26	25	708	0.02615	0.74059
	27	29	737	0.03033	0.77092
	28	11	748	0.01151	0.78243
	29	14	762	0.01464	0.79707
	30	9	771	0.00941	0.80649
October	1	9	780	0.00941	0.81590
	2	32	812	0.03347	0.84937
	3	21	833	0.02197	0.87134
	4	20	853	0.02092	0.89226
	5	6	859	0.00628	0.89854
	6	7	866	0.00732	0.90586
	7	4	870	0.00418	0.91004
	8	4	874	0.00418	0.91423
	9	6	880	0.00628	0.92050
	10	13	893	0.01360	0.93410
	11	5	898	0.00523	0.93933
	12	8	906	0.00837	0.94770
	13	6	912	0.00628	0.95397
	14	8	920	0.00837	0.96234
	15	5	925	0.00523	0.96757
	16	7	932	0.00732	0.97490
	17	2	934	0.00209	0.97699
	18	5	939	0.00523	0.98222
	19	4	943	0.00418	0.98640
	20	4	947	0.00418	0.99059
	21	3	950	0.00314	0.99372
	22	1	951	0.00105	0.99477
	23	5 2/	956	0.00523	1.00000

1/ Refer to Appendix Table A25 for counts of jacks.
2/ Included in this count were three coho holding below weir on pullout.

Appendix Table A11. Salmon Bay Lake (Stream No. 106-41-010) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	8	2	2	0.00578	0.00578
	9	2	4	0.00578	0.01156
	10	0	4	0.00000	0.01156
	11	3	7	0.00867	0.02023
	12	1	8	0.00289	0.02312
	13	0	8	0.00000	0.02312
	14	7	15	0.02023	0.04335
	15	5	20	0.01445	0.05780
	16	2	22	0.00578	0.06358
	17	2	24	0.00578	0.06936
	18	0	24	0.00000	0.06936
	19	0	24	0.00000	0.06936
	20	1	25	0.00289	0.07225
	21	0	25	0.00000	0.07225
	22	3	28	0.00867	0.08092
	23	1	29	0.00289	0.08382
	24	12	41	0.03468	0.11850
	25	5	46	0.01445	0.13295
	26	1	47	0.00289	0.13584
	27	17	64	0.04913	0.18497
	28	45	109	0.13006	0.31503
	29	6	115	0.01734	0.33237
	30	10	125	0.02890	0.36127
	31	31	156	0.08960	0.45087
September	1	24	180	0.06936	0.52023
	2	21	201	0.06069	0.58092
	3	40	241	0.11561	0.69653
	4	53	294	0.15318	0.84971
	5	22	316	0.06358	0.91329
	6	0	316	0.00000	0.91329
	7	30 2/	346	0.08671	1.00000

1/ Weir pulled before coho migration completed.
2/ This number holding below weir on pullout.

Appendix Table A12. Crystal Creek (Crystal Lake Hatchery) (Stream No. 106-44-031) weir counts of non-jack coho salmon, 1985 1/ 2/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	10	3	3	0.00085	0.00085
	11	0	3	0.00000	0.00085
	12	0	3	0.00000	0.00085
	13	0	3	0.00000	0.00085
	14	0	3	0.00000	0.00085
	15	0	3	0.00000	0.00085
	16	17	20	0.00483	0.00568
	17	0	20	0.00000	0.00568
	18	0	20	0.00000	0.00568
	19	0	20	0.00000	0.00568
	20	0	20	0.00000	0.00568
	21	0	20	0.00000	0.00568
	22	0	20	0.00000	0.00568
	23	13	33	0.00369	0.00937
	24	0	33	0.00000	0.00937
	25	0	33	0.00000	0.00937
	26	0	33	0.00000	0.00937
	27	0	33	0.00000	0.00937
	28	0	33	0.00000	0.00937
	29	0	33	0.00000	0.00937
	30	11	44	0.00312	0.01249
October	1	0	44	0.00000	0.01249
	2	0	44	0.00000	0.01249
	3	0	44	0.00000	0.01249
	4	0	44	0.00000	0.01249
	5	0	44	0.00000	0.01249
	6	0	44	0.00000	0.01249
	7	0	44	0.00000	0.01249
	8	477	521	0.13543	0.14793
	9	0	521	0.00000	0.14793
	10	0	521	0.00000	0.14793
	11	0	521	0.00000	0.14793
	12	0	521	0.00000	0.14793
	13	0	521	0.00000	0.14793
	14	211	732	0.05991	0.20784
	15	376	1,108	0.10676	0.31459
	16	0	1,108	0.00000	0.31459
	17	0	1,108	0.00000	0.31459
	18	0	1,108	0.00000	0.31459
	19	0	1,108	0.00000	0.31459
	20	0	1,108	0.00000	0.31459

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Appendix Table A12. Crystal Creek (Crystal Lake Hatchery) (Stream No. 106-44-031) weir counts of non-jack coho salmon, 1985 1/ 2/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	21	0	1,108	0.00000	0.31459
	22	0	1,108	0.00000	0.31459
	23	372	1,480	0.10562	0.42022
	24	760	2,240	0.21579	0.63600
	25	0	2,240	0.00000	0.63600
	26	0	2,240	0.00000	0.63600
	27	0	2,240	0.00000	0.63600
	28	0	2,240	0.00000	0.63600
	29	0	2,240	0.00000	0.63600
	30	273	2,513	0.07751	0.71352
	31	0	2,513	0.00000	0.71352
November	1	0	2,513	0.00000	0.71352
	2	0	2,513	0.00000	0.71352
	3	0	2,513	0.00000	0.71352
	4	0	2,513	0.00000	0.71352
	5	9	2,522	0.00256	0.71607
	6	0	2,522	0.00000	0.71607
	7	0	2,522	0.00000	0.71607
	8	0	2,522	0.00000	0.71607
	9	0	2,522	0.00000	0.71607
	10	0	2,522	0.00000	0.71607
	11	0	2,522	0.00000	0.71607
	12	0	2,522	0.00000	0.71607
	13	0	2,522	0.00000	0.71607
	14	0	2,522	0.00000	0.71607
	15	0	2,522	0.00000	0.71607
	16	0	2,522	0.00000	0.71607
	17	0	2,522	0.00000	0.71607
	18	0	2,522	0.00000	0.71607
	19	0	2,522	0.00000	0.71607
	20	0	2,522	0.00000	0.71607
	21	0	2,522	0.00000	0.71607
	22	0	2,522	0.00000	0.71607
	23	0	2,522	0.00000	0.71607
	24	0	2,522	0.00000	0.71607
	25	0	2,522	0.00000	0.71607
	26	0	2,522	0.00000	0.71607
	27	0	2,522	0.00000	0.71607
	28	0	2,522	0.00000	0.71607
	29	0	2,522	0.00000	0.71607
	30	0	2,522	0.00000	0.71607

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Appendix Table A12. Crystal Creek (Crystal Lake Hatchery) (Stream No. 106-44-031) weir counts of non-jack coho salmon, 1985 1/ 2/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
December	1	0	2,522	0.00000	0.71607
	2	0	2,522	0.00000	0.71607
	3	0	2,522	0.00000	0.71607
	4	0	2,522	0.00000	0.71607
	5	0	2,522	0.00000	0.71607
	6	0	2,522	0.00000	0.71607
	7	0	2,522	0.00000	0.71607
	8	0	2,522	0.00000	0.71607
	9	0	2,522	0.00000	0.71607
	10	0	2,522	0.00000	0.71607
	11	1,000	3,522	0.28393	1.00000

1/ Refer to Appendix Table A26 for counts of jacks.
2/ Data of limited value due to the lack of daily passage through the weir.

Appendix Table A13. Sashin Creek (Stream No. 109-10-006) weir counts of wild non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	30	1	1	0.03704	0.03704
	31	0	1	0.00000	0.03704
September	1	0	1	0.00000	0.03704
	2	0	1	0.00000	0.03704
	3	0	1	0.00000	0.03704
	4	2	3	0.07407	0.11111
	5	1	4	0.03704	0.14815
	6	0	4	0.00000	0.14815
	7	0	4	0.00000	0.14815
	8	0	4	0.00000	0.14815
	9	0	4	0.00000	0.14815
	10	0	4	0.00000	0.14815
	11	0	4	0.00000	0.14815
	12	0	4	0.00000	0.14815
	13	0	4	0.00000	0.14815
	14	0	4	0.00000	0.14815
	15	5	9	0.18519	0.33333
	16	0	9	0.00000	0.33333
	17	0	9	0.00000	0.33333
	18	0	9	0.00000	0.33333
	19	0	9	0.00000	0.33333
	20	0	9	0.00000	0.33333
	21	0	9	0.00000	0.33333
	22	0	9	0.00000	0.33333
	23	11	20	0.40741	0.74074
	24	0	20	0.00000	0.74074
	25	1	21	0.03704	0.77778
	26	0	21	0.00000	0.77778
	27	0	21	0.00000	0.77778
	28	0	21	0.00000	0.77778
	29	0	21	0.00000	0.77778
	30	5	26	0.18519	0.96296
October	1	1	27	0.03704	1.00000

1/ There were 4 adipose fin clipped coho passed on September 23, 1985 which were from a hatchery plant and not included in the total count.

Appendix Table A14. Falls Lake (Stream No. 109-20-013) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
July	29 2/	1	1	0.03571	0.03571
	30	1	2	0.03571	0.07143
	31	0	2	0.00000	0.07143
August	1	0	2	0.00000	0.07143
	2	1	3	0.03571	0.10714
	3	5	8	0.17857	0.28571
	4	1	9	0.03571	0.32143
	5	7	16	0.25000	0.57143
	6	5	21	0.17857	0.75000
	7	4	25	0.14286	0.89286
	8	0	25	0.00000	0.89286
	9	0	25	0.00000	0.89286
	10	0	25	0.00000	0.89286
	11	1	26	0.03571	0.92857
	12	0	26	0.00000	0.92857
	13	0	26	0.00000	0.92857
	14	0	26	0.00000	0.92857
	15	1	27	0.03571	0.96429
	16	0	27	0.00000	0.96429
	17	1	28	0.03571	1.00000
	18	0	28	0.00000	1.00000
	19	0	28	0.00000	1.00000
	20	0	28	0.00000	1.00000

1/ Data of limited value, weir pulled before coho migration completed.
2/ Weir operational on June 19, 1985, first coho on this date.

Appendix Table A15. Little Tatsamenie Lake (Stream No. 111-32-254) Canadian weir counts of non-jack coho salmon, 1985.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	28	1	1	0.00943	0.00943
	29	0	1	0.00000	0.00943
	30	0	1	0.00000	0.00943
	31	0	1	0.00000	0.00943
September	1 1/	0	1	0.00000	0.00943
	2	4	5	0.03774	0.04717
	3	1	6	0.00943	0.05660
	4	0	6	0.00000	0.05660
	5	2	8	0.01887	0.07547
	6	0	8	0.00000	0.07547
	7	1	9	0.00943	0.08491
	8	0	9	0.00000	0.08491
	9	0	9	0.00000	0.08491
	10	1	10	0.00943	0.09434
	11	2	12	0.01887	0.11321
	12	0	12	0.00000	0.11321
	13	0	12	0.00000	0.11321
	14	0	12	0.00000	0.11321
	15	0	12	0.00000	0.11321
	16	2	14	0.01887	0.13208
	17	1	15	0.00943	0.14151
	18	1	16	0.00943	0.15094
	19	0	16	0.00000	0.15094
	20	0	16	0.00000	0.15094
	21	0	16	0.00000	0.15094
	22	1	17	0.00943	0.16038
	23	0	17	0.00000	0.16038
	24	0	17	0.00000	0.16038
	25 2/	0	17	0.00000	0.16038
	26	0	17	0.00000	0.16038
	27	1	18	0.00943	0.16981
	28	0	18	0.00000	0.16981
	29	1	19	0.00943	0.17925
	30	0	19	0.00000	0.17925
October	1	4	23	0.03774	0.21698
	2	2	25	0.01887	0.23585
	3	1	26	0.00943	0.24528
	4	3	29	0.02830	0.27358
	5	1	30	0.00943	0.28302
	6	11	41	0.10377	0.38679
	7	7	48	0.06604	0.45283

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Appendix Table A15. Little Tatsamenie Lake (Stream No. 111-32-254) Canadian weir counts of non-jack coho salmon, 1985 (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	8	11	59	0.10377	0.55660
	9	1	60	0.00943	0.56604
	10	8	68	0.07547	0.64151
	11	12	80	0.11321	0.75472
	12	7	87	0.06604	0.82075
	13	3	90	0.02830	0.84906
	14 3/	8	98	0.07547	0.92453
	15	0	98	0.00000	0.92453
	16	8	106	0.07547	1.00000

1/ Weir closed for electrophoretic sampling.
2/ Weir undermined in storm; estimated loss of 10-20 coho.
3/ Weir closed for reconstruction.

Appendix Table A16. Hackett River (Stream No. 111-32-260) Canadian weir counts of non-jack coho salmon, 1985.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	28	3	3	0.00291	0.00291
	29	43	46	0.04167	0.04457
	30	26	72	0.02519	0.06977
	31	35	107	0.03391	0.10368
September	1	26	133	0.02519	0.12888
	2	8	141	0.00775	0.13663
	3	0	141	0.00000	0.13663
	4	4	145	0.00388	0.14050
	5	32	177	0.03101	0.17151
	6	28	205	0.02713	0.19864
	7	2	207	0.00194	0.20058
	8	0	207	0.00000	0.20058
	9	60	267	0.05814	0.25872
	10	98	365	0.09496	0.35368
	11	16	381	0.01550	0.36919
	12	10	391	0.00969	0.37888
	13	39 1/	430	0.03779	0.41667
	14	84	514	0.08140	0.49806
	15	162	676	0.15698	0.65504
	16	160 2/	839	0.15504	0.81008
	17	2	838	0.00194	0.81202
	18	0	838	0.00000	0.81202
	19	0	838	0.00000	0.81202
	20	1	839	0.00097	0.81298
	21	0	839	0.00000	0.81298
	22	0	839	0.00000	0.81298
	23	0	839	0.00000	0.81298
	24	43	882	0.04167	0.85465
	25	35	917	0.03391	0.88857
	26	6	923	0.00581	0.89438
	27	5	928	0.00484	0.89922
	28	0	928	0.00000	0.89922
	29	1	929	0.00097	0.90019
	30	5	934	0.00484	0.90504
October	1	26	960	0.02519	0.93023
	2	2	962	0.00194	0.93217
	3	3	965	0.00291	0.93508
	4	59	1,024	0.05717	0.99225
	5	1	1,025	0.00097	0.99322
	6	0	1,025	0.00000	0.99322
	7	0	1,025	0.00000	0.99322

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Appendix Table A16. Hackett River (Stream No. 111-32-260) Canadian weir counts of non-jack coho salmon, 1985 (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	8	0	1,025	0.00000	0.99322
	9	0	1,025	0.00000	0.99322
	10	0	1,025	0.00000	0.99322
	11	0	1,025	0.00000	0.99322
	12	4	1,029	0.00388	0.99709
	13	0	1,029	0.00000	0.99709
	14	0	1,029	0.00000	0.99709
	15	1	1,030	0.00097	0.99806
	16	0	1,030	0.00000	0.99806
	17	0	1,030	0.00000	0.99806
	18	0	1,030	0.00000	0.99806
	19	2	1,032	0.00194	1.00000

1/ Addition error in data, there is 1 more in the cummulative than reported.
2/ Addition error in data, there is 100 more in the cummulative than reported.

Appendix Table A17. Auke Creek (Stream No. 111-50-042) weir counts of hatchery non-jack coho salmon, 1985 1/ 2/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	22	1	1	0.00137	0.00137
	23	0	1	0.00000	0.00137
	24	0	1	0.00000	0.00137
	25	0	1	0.00000	0.00137
	26	1	2	0.00137	0.00274
	27	0	2	0.00000	0.00274
	28	0	2	0.00000	0.00274
	29	0	2	0.00000	0.00274
	30	0	2	0.00000	0.00274
	31	0	2	0.00000	0.00274
September	1	0	2	0.00000	0.00274
	2	0	2	0.00000	0.00274
	3	0	2	0.00000	0.00274
	4	0	2	0.00000	0.00274
	5	3	5	0.00411	0.00685
	6	0	5	0.00000	0.00685
	7	0	5	0.00000	0.00685
	8	0	5	0.00000	0.00685
	9	0	5	0.00000	0.00685
	10	0	5	0.00000	0.00685
	11	1	6	0.00137	0.00822
	12	0	6	0.00000	0.00822
	13	0	6	0.00000	0.00822
	14	0	6	0.00000	0.00822
	15	0	6	0.00000	0.00822
	16	18	24	0.02466	0.03288
	17	22	46	0.03014	0.06301
	18	7	53	0.00959	0.07260
	19	1	54	0.00137	0.07397
	20	3	57	0.00411	0.07808
	21	2	59	0.00274	0.08082
	22	0	59	0.00000	0.08082
	23	19	78	0.02603	0.10685
	24	75	153	0.10274	0.20959
	25	94	247	0.12877	0.33836
	26	68	315	0.09315	0.43151
	27	7	322	0.00959	0.44110
	28	0	322	0.00000	0.44110
	29	0	322	0.00000	0.44110
	30	10	332	0.01370	0.45479

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Appendix Table A17. Auke Creek (Stream No. 111-50-042) weir counts of hatchery non-jack coho salmon, 1985 1/ 2/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	1	14	346	0.01918	0.47397
	2	66	412	0.09041	0.56438
	3	77	489	0.10548	0.66986
	4	30	519	0.04110	0.71096
	5	21	540	0.02877	0.73973
	6	13	553	0.01781	0.75753
	7	2	555	0.00274	0.76027
	8	0	555	0.00000	0.76027
	9	9	564	0.01233	0.77260
	10	9	573	0.01233	0.78493
	11	10	583	0.01370	0.79863
	12	8	591	0.01096	0.80959
	13	7	598	0.00959	0.81918
	14	19	617	0.02603	0.84521
	15	10	627	0.01370	0.85890
	16	11	638	0.01507	0.87397
	17	9	647	0.01233	0.88630
	18	9	656	0.01233	0.89863
	19	6	662	0.00822	0.90685
	20	7	669	0.00959	0.91644
	21	1	670	0.00137	0.91781
	22	0	670	0.00000	0.91781
	23	2	672	0.00274	0.92055
	24	19	691	0.02603	0.94658
	25	9	700	0.01233	0.95890
	26	10	710	0.01370	0.97260
	27	3	713	0.00411	0.97671
	28	5	718	0.00685	0.98356
	29	1	719	0.00137	0.98493
	30	6	725	0.00822	0.99315
	31	2	727	0.00274	0.99589
November	1	2	729	0.00274	0.99863
	2	1	730	0.00137	1.00000

1/ Hatchery fish indentified by a ventral fin clip and killed at the weir.
2/ Refer to Appendix Table A27 for counts of jacks.

Appendix Table A18. Auke Creek (Stream No. 111-50-042) weir counts of wild non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	16	30	30	0.03185	0.03185
	17	43	73	0.04565	0.07749
	18	7	80	0.00743	0.08493
	19	3	83	0.00318	0.08811
	20	8	91	0.00849	0.09660
	21	2	93	0.00212	0.09873
	22	5	98	0.00531	0.10403
	23	44	142	0.04671	0.15074
	24	117	259	0.12420	0.27495
	25	175	434	0.18577	0.46072
	26	80	514	0.08493	0.54565
	27	6	520	0.00637	0.55202
	28	2	522	0.00212	0.55414
	29	0	522	0.00000	0.55414
	30	20	542	0.02123	0.57537
October	1	19	561	0.02017	0.59554
	2	71	632	0.07537	0.67091
	3	119	751	0.12633	0.79724
	4	30	781	0.03185	0.82909
	5	30	811	0.03185	0.86093
	6	12	823	0.01274	0.87367
	7	4	827	0.00425	0.87792
	8	0	827	0.00000	0.87792
	9	6	833	0.00637	0.88429
	10	18	851	0.01911	0.90340
	11	7	858	0.00743	0.91083
	12	3	861	0.00318	0.91401
	13	3	864	0.00318	0.91720
	14	6	870	0.00637	0.92357
	15	7	877	0.00743	0.93100
	16	12	889	0.01274	0.94374
	17	7	896	0.00743	0.95117
	18	6	902	0.00637	0.95754
	19	4	906	0.00425	0.96178
	20	1	907	0.00106	0.96285
	21	1	908	0.00106	0.96391
	22	0	908	0.00000	0.96391
	23	6	914	0.00637	0.97028
	24	6	920	0.00637	0.97665
	25	5	925	0.00531	0.98195
	26	5	930	0.00531	0.98726

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Appendix Table A18. Auke Creek (Stream No. 111-50-042) weir counts of wild non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	27	4	934	0.00425	0.99151
	28	1	935	0.00106	0.99257
	29	1	936	0.00106	0.99363
	30	5	941	0.00531	0.99894
	31	0	941	0.00000	0.99894
November	1	1	942	0.00106	1.00000
	2	0	942	0.00000	1.00000

1/ Refer to Appendix Table A28 for counts of wild jacks.

Appendix Table A19. Salmon Lake (Stream No. 113-41-032) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	27	1	1	0.00072	0.00072
	28	0	1	0.00000	0.00072
	29	0	1	0.00000	0.00072
	30	0	1	0.00000	0.00072
	31	0	1	0.00000	0.00072
September	1	0	1	0.00000	0.00072
	2	0	1	0.00000	0.00072
	3	0	1	0.00000	0.00072
	4	13	14	0.00939	0.01011
	5	11	25	0.00794	0.01805
	6	0	25	0.00000	0.01805
	7	0	25	0.00000	0.01805
	8	0	25	0.00000	0.01805
	9	0	25	0.00000	0.01805
	10	0	25	0.00000	0.01805
	11	0	25	0.00000	0.01805
	12	0	25	0.00000	0.01805
	13 2/	0	25	0.00000	0.01805
	14 2/	0	25	0.00000	0.01805
	15 3/	0	25	0.00000	0.01805
	16	48	73	0.03466	0.05271
	17	24	97	0.01733	0.07004
	18 2/	0	97	0.00000	0.07004
	19 2/	0	97	0.00000	0.07004
	20 2/	0	97	0.00000	0.07004
	21 2/	0	97	0.00000	0.07004
	22 2/	0	97	0.00000	0.07004
	23	50	147	0.03610	0.10614
	24	44	191	0.03177	0.13791
	25	11	202	0.00794	0.14585
	26	13	215	0.00939	0.15523
	27	0	215	0.00000	0.15523
	28	0	215	0.00000	0.15523
	29 4/	0	215	0.00000	0.15523
	30	24	239	0.01733	0.17256
October	1	284	523	0.20505	0.37762
	2	381	904	0.27509	0.65271
	3	42	946	0.03032	0.68303
	4	54	1,000	0.03899	0.72202
	5	40	1,040	0.02888	0.75090
	6	5	1,045	0.00361	0.75451

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Appendix Table A19. Salmon Lake (Stream No. 113-41-032) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	7	2	1,047	0.00144	0.75596
	8	0	1,047	0.00000	0.75596
	9 5/	0	1,047	0.00000	0.75596
	10	31	1,078	0.02238	0.77834
	11	5	1,083	0.00361	0.78195
	12	9	1,092	0.00650	0.78845
	13	20	1,112	0.01444	0.80289
	14	18	1,130	0.01300	0.81588
	15	0	1,130	0.00000	0.81588
	16	0	1,130	0.00000	0.81588
	17	255 6/	1,385	0.18412	1.00000

1/ Refer to Appendix Table A29 for counts of jacks.
2/ Weir closed due to saturation of stream with pink salmon.
3/ Weir closed due to high turbid water.
4/ Weir left closed due to lack of coho.
5/ Weir closed when crew went to town to walk Indian River for coho count.
6/ This number of coho holding below weir on pullout.

Appendix Table A20. Redoubt Lake (Stream No. 113-41-043) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
July	27	1	1	0.00198	0.00198
	28	0	1	0.00000	0.00198
	29	0	1	0.00000	0.00198
	30	0	1	0.00000	0.00198
	31	1	2	0.00198	0.00395
August	1	0	2	0.00000	0.00395
	2	2	4	0.00395	0.00791
	3	0	4	0.00000	0.00791
	4	0	4	0.00000	0.00791
	5	1	5	0.00198	0.00988
	6	1	6	0.00198	0.01186
	7	6	12	0.01186	0.02372
	8	12	24	0.02372	0.04743
	9	7	31	0.01383	0.06126
	10	13	44	0.02569	0.08696
	11	15	59	0.02964	0.11660
	12	3	62	0.00593	0.12253
	13	12	74	0.02372	0.14625
	14	15	89	0.02964	0.17589
	15	28	117	0.05534	0.23123
	16	14	131	0.02767	0.25889
	17	36	167	0.07115	0.33004
	18	17	184	0.03360	0.36364
	19	14	198	0.02767	0.39130
	20	5	203	0.00988	0.40119
	21	9	212	0.01779	0.41897
	22	43	255	0.08498	0.50395
	23	20	275	0.03953	0.54348
	24	36	311	0.07115	0.61462
	25	24	335	0.04743	0.66206
	26	2	337	0.00395	0.66601
	27	51	388	0.10079	0.76680
	28	118	506	0.23320	1.00000

1/ Weir pulled before coho migration completed.

Appendix Table A21. Ford Arm Lake (Stream No. 113-73-003) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	17	0	0	0.00000	0.00000
	18	0	0	0.00000	0.00000
	19	0	0	0.00000	0.00000
	20	1	1	0.00042	0.00042
	21	13	14	0.00552	0.00595
	22	15	29	0.00637	0.01232
	23	8	37	0.00340	0.01572
	24	9	46	0.00382	0.01954
	25	2	48	0.00085	0.02039
	26	1	49	0.00042	0.02082
	27	1	50	0.00042	0.02124
	28	1	51	0.00042	0.02167
	29	2	53	0.00085	0.02251
	30	1	54	0.00042	0.02294
	31	3	57	0.00127	0.02421
September	1	4	61	0.00170	0.02591
	2	73	134	0.03101	0.05692
	3	91	225	0.03866	0.09558
	4	118	343	0.05013	0.14571
	5	120	463	0.05098	0.19669
	6	50	513	0.02124	0.21793
	7	1	514	0.00042	0.21835
	8	2	516	0.00085	0.21920
	9	0	516	0.00000	0.21920
	10	30	546	0.01274	0.23195
	11	9	555	0.00382	0.23577
	12	2	557	0.00085	0.23662
	13	1	558	0.00042	0.23704
	14	1	559	0.00042	0.23747
	15	38	597	0.01614	0.25361
	16	145	742	0.06160	0.31521
	17	132	874	0.05607	0.37128
	18	38	912	0.01614	0.38743
	19	30	942	0.01274	0.40017
	20	83	1,025	0.03526	0.43543
	21	22	1,047	0.00935	0.44477
	22	2	1,049	0.00085	0.44562
	23	69	1,118	0.02931	0.47494
	24	27	1,145	0.01147	0.48641
	25	201	1,346	0.08539	0.57179
	26	49	1,395	0.02082	0.59261

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Appendix Table A21. Ford Arm Lake (Stream No. 113-73-003) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	27	61	1,456	0.02591	0.61852
	28	4	1,460	0.00170	0.62022
	29	0	1,460	0.00000	0.62022
	30	63	1,523	0.02676	0.64698
October	1	27	1,550	0.01147	0.65845
	2	62	1,612	0.02634	0.68479
	3	24	1,636	0.01020	0.69499
	4	95	1,731	0.04036	0.73534
	5	6	1,737	0.00255	0.73789
	6	1	1,738	0.00042	0.73832
	7	0	1,738	0.00000	0.73832
	8	0	1,738	0.00000	0.73832
	9	1	1,739	0.00042	0.73874
	10	54	1,793	0.02294	0.76168
	11	0	1,793	0.00000	0.76168
	12	1	1,794	0.00042	0.76211
	13	0	1,794	0.00000	0.76211
	14	0	1,794	0.00000	0.76211
	15	2	1,796	0.00085	0.76296
	16	1	1,797	0.00042	0.76338
	17	2	1,799	0.00085	0.76423
	18	4	1,803	0.00170	0.76593
	19	0	1,803	0.00000	0.76593
	20	0	1,803	0.00000	0.76593
	21	0	1,803	0.00000	0.76593
	22	0	1,803	0.00000	0.76593
	23	0	1,803	0.00000	0.76593
	24	0	1,803	0.00000	0.76593
	25	0	1,803	0.00000	0.76593
	26	0	1,803	0.00000	0.76593
	27	0	1,803	0.00000	0.76593
	28	0	1,803	0.00000	0.76593
	29	0	1,803	0.00000	0.76593
	30	0	1,803	0.00000	0.76593
	31	1	1,804	0.00042	0.76636
November	1	0	1,804	0.00000	0.76636
	2	0	1,804	0.00000	0.76636
	3	0	1,804	0.00000	0.76636
	4	550	2,354	0.23364	1.00000

1/ Refer to Appendix Table A30 for counts of jacks.

Appendix Table A22. Chilkat Lake (Stream No. 115-32-032) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	13	1	1	0.00241	0.00241
	14	0	1	0.00000	0.00241
	15	0	1	0.00000	0.00241
	16	0	1	0.00000	0.00241
	17	1	2	0.00241	0.00482
	18	0	2	0.00000	0.00482
	19	2	4	0.00482	0.00964
	20	5	9	0.01205	0.02169
	21	26	35	0.06265	0.08434
	22	56	91	0.13494	0.21928
	23	0	91	0.00000	0.21928
	24	60	151	0.14458	0.36386
	25	0	151	0.00000	0.36386
	26	0	151	0.00000	0.36386
	27	3	154	0.00723	0.37108
	28	0	154	0.00000	0.37108
	29	1	155	0.00241	0.37349
	30	6	161	0.01446	0.38795
October	1	0	161	0.00000	0.38795
	2	6	167	0.01446	0.40241
	3	0	167	0.00000	0.40241
	4	23	190	0.05542	0.45783
	5	5	195	0.01205	0.46988
	6	71	266	0.17108	0.64096
	7	0	266	0.00000	0.64096
	8	10	276	0.02410	0.66506
	9	82	358	0.19759	0.86265
	10	4	362	0.00964	0.87229
	11	6	368	0.01446	0.88675
	12	10	378	0.02410	0.91084
	13	32	410	0.07711	0.98795
	14	0	410	0.00000	0.98795
	15	5	415	0.01205	1.00000
	16	0	415	0.00000	1.00000
	17	0	415	0.00000	1.00000
	18	0	415	0.00000	1.00000
	19	0	415	0.00000	1.00000
	20	0	415	0.00000	1.00000
	21	0	415	0.00000	1.00000

1/ Jack coho salmon able to pass through pickets uncounted.

Appendix Table A23. Chilkoot Lake (Stream No. 115-33-030) weir counts of non-jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	28	2	2	0.00091	0.00091
	29	2	4	0.00091	0.00182
	30	1	5	0.00045	0.00227
	31	1	6	0.00045	0.00273
September	1	1	7	0.00045	0.00318
	2	7	14	0.00318	0.00636
	3	1	15	0.00045	0.00682
	4	3	18	0.00136	0.00818
	5	3	21	0.00136	0.00955
	6	3	24	0.00136	0.01091
	7	4	28	0.00182	0.01273
	8	6	34	0.00273	0.01545
	9	4	38	0.00182	0.01727
	10	7	45	0.00318	0.02045
	11	8	53	0.00364	0.02409
	12	5	58	0.00227	0.02636
	13	11	69	0.00500	0.03136
	14	11	80	0.00500	0.03636
	15	21	101	0.00955	0.04591
	16	26	127	0.01182	0.05773
	17	17	144	0.00773	0.06545
	18	10	154	0.00455	0.07000
	19	31	185	0.01409	0.08409
	20	20	205	0.00909	0.09318
	21	15	220	0.00682	0.10000
	22	13	233	0.00591	0.10591
	23	11	244	0.00500	0.11091
	24	57	301	0.02591	0.13682
	25	83	384	0.03773	0.17455
	26	94	478	0.04273	0.21727
	27	93	571	0.04227	0.25955
	28	44	615	0.02000	0.27955
	29	43	658	0.01955	0.29909
	30	168	826	0.07636	0.37545
October	1	135	961	0.06136	0.43682
	2	98	1,059	0.04455	0.48136
	3	79	1,138	0.03591	0.51727
	4	34	1,172	0.01545	0.53273
	5	170	1,342	0.07727	0.61000
	6	91	1,433	0.04136	0.65136
	7	100	1,533	0.04545	0.69682
	8	61	1,594	0.02773	0.72455

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Appendix Table A23. Chilkoot Lake (Stream No. 115-33-030) weir counts of non-jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	9	318	1,912	0.14455	0.86909
	10	31	1,943	0.01409	0.88318
	11	70	2,013	0.03182	0.91500
	12	1	2,014	0.00045	0.91545
	13	25	2,039	0.01136	0.92682
	14	87	2,126	0.03955	0.96636
	15	39	2,165	0.01773	0.98409
	16	4	2,169	0.00182	0.98591
	17	2	2,171	0.00091	0.98682
	18	4	2,175	0.00182	0.98864
	19	9	2,184	0.00409	0.99273
	20	2	2,186	0.00091	0.99364
	21	2	2,188	0.00091	0.99455
	22	0	2,188	0.00000	0.99455
	23	0	2,188	0.00000	0.99455
	24	0	2,188	0.00000	0.99455
	25	0	2,188	0.00000	0.99455
	26	0	2,188	0.00000	0.99455
	27	0	2,188	0.00000	0.99455
	28	0	2,188	0.00000	0.99455
	29	12 2/	2,200	0.00545	1.00000

1/ Two jacks passed through the weir, many jacks may have passed through the pickets uncounted.
2/ This number holding below weir on pullout.

Appendix Table A24. Hugh Smith Lake (Stream No. 101-30-075) weir counts of jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	9	0	0	0.00000	0.00000
	10	0	0	0.00000	0.00000
	11	0	0	0.00000	0.00000
	12	1	1	0.03571	0.03571
	13	0	1	0.00000	0.03571
	14	0	1	0.00000	0.03571
	15	0	1	0.00000	0.03571
	16	0	1	0.00000	0.03571
	17	0	1	0.00000	0.03571
	18	0	1	0.00000	0.03571
	19	0	1	0.00000	0.03571
	20	0	1	0.00000	0.03571
	21	0	1	0.00000	0.03571
	22	0	1	0.00000	0.03571
	23	0	1	0.00000	0.03571
	24	0	1	0.00000	0.03571
	25	0	1	0.00000	0.03571
	26	0	1	0.00000	0.03571
	27	0	1	0.00000	0.03571
	28	0	1	0.00000	0.03571
	29	0	1	0.00000	0.03571
	30	1	2	0.03571	0.07143
	31	0	2	0.00000	0.07143
September	1	0	2	0.00000	0.07143
	2	0	2	0.00000	0.07143
	3	0	2	0.00000	0.07143
	4	0	2	0.00000	0.07143
	5	0	2	0.00000	0.07143
	6	1	3	0.03571	0.10714
	7	0	3	0.00000	0.10714
	8	3	6	0.10714	0.21429
	9	1	7	0.03571	0.25000
	10	2	9	0.07143	0.32143
	11	2	11	0.07143	0.39286
	12	3	14	0.10714	0.50000
	13	0	14	0.00000	0.50000
	14	0	14	0.00000	0.50000
	15	2	16	0.07143	0.57143
	16	0	16	0.00000	0.57143
	17	1	17	0.03571	0.60714
	18	1	18	0.03571	0.64286
	19	2	20	0.07143	0.71429

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Appendix Table A24. Hugh Smith Lake (Stream No. 101-30-075) weir counts of jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	20	1	21	0.03571	0.75000
	21	0	21	0.00000	0.75000
	22	1	22	0.03571	0.78571
	23	0	22	0.00000	0.78571
	24	0	22	0.00000	0.78571
	25	0	22	0.00000	0.78571
	26	1	23	0.03571	0.82143
	27	0	23	0.00000	0.82143
	28	0	23	0.00000	0.82143
	29	0	23	0.00000	0.82143
	30	0	23	0.00000	0.82143
October	1	2	25	0.07143	0.89286
	2	0	25	0.00000	0.89286
	3	1	26	0.03571	0.92857
	4	0	26	0.00000	0.92857
	5	0	26	0.00000	0.92857
	6	0	26	0.00000	0.92857
	7	0	26	0.00000	0.92857
	8	1	27	0.03571	0.96429
	9	0	27	0.00000	0.96429
	10	0	27	0.00000	0.96429
	11	0	27	0.00000	0.96429
	12	0	27	0.00000	0.96429
	13	0	27	0.00000	0.96429
	14	0	27	0.00000	0.96429
	15	0	27	0.00000	0.96429
	16	0	27	0.00000	0.96429
	17	0	27	0.00000	0.96429
	18	0	27	0.00000	0.96429
	19	0	27	0.00000	0.96429
	20	0	27	0.00000	0.96429
	21 2/	1	28	0.03571	1.00000

1/ Refer to Appendix Table A7 for counts of non-jacks.
2/ Last day of jack passage, weir pulled on November 11, 1985.

Appendix Table A25. Warm Chuck Lake (Stream No. 103-80-031) weir counts of jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	14	0	0	0.00000	0.00000
	15	0	0	0.00000	0.00000
	16	0	0	0.00000	0.00000
	17	0	0	0.00000	0.00000
	18	0	0	0.00000	0.00000
	19	0	0	0.00000	0.00000
	20	0	0	0.00000	0.00000
	21	0	0	0.00000	0.00000
	22	0	0	0.00000	0.00000
	23	0	0	0.00000	0.00000
	24	0	0	0.00000	0.00000
	25	0	0	0.00000	0.00000
	26	0	0	0.00000	0.00000
	27	0	0	0.00000	0.00000
	28	0	0	0.00000	0.00000
	29	0	0	0.00000	0.00000
	30	1	1	0.01053	0.01053
	31	0	1	0.00000	0.01053
September	1	0	1	0.00000	0.01053
	2	0	1	0.00000	0.01053
	3	0	1	0.00000	0.01053
	4	3	4	0.03158	0.04211
	5	5	9	0.05263	0.09474
	6	1	10	0.01053	0.10526
	7	0	10	0.00000	0.10526
	8	0	10	0.00000	0.10526
	9	0	10	0.00000	0.10526
	10	6	16	0.06316	0.16842
	11	1	17	0.01053	0.17895
	12	4	21	0.04211	0.22105
	13	0	21	0.00000	0.22105
	14	0	21	0.00000	0.22105
	15	1	22	0.01053	0.23158
	16	5	27	0.05263	0.28421
	17	12	39	0.12632	0.41053
	18	4	43	0.04211	0.45263
	19	0	43	0.00000	0.45263
	20	5	48	0.05263	0.50526
	21	3	51	0.03158	0.53684
	22	7	58	0.07368	0.61053
	23	7	65	0.07368	0.68421
	24	2	67	0.02105	0.70526

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Appendix Table A25. Warm Chuck Lake (Stream No. 103-80-031) weir counts of jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	25	8	75	0.08421	0.78947
	26	2	77	0.02105	0.81053
	27	6	83	0.06316	0.87368
	28	0	83	0.00000	0.87368
	29	1	84	0.01053	0.88421
	30	0	84	0.00000	0.88421
October	1	2	86	0.02105	0.90526
	2	2	88	0.02105	0.92632
	3	0	88	0.00000	0.92632
	4	1	89	0.01053	0.93684
	5	0	89	0.00000	0.93684
	6	1	90	0.01053	0.94737
	7	1	91	0.01053	0.95789
	8	0	91	0.00000	0.95789
	9	0	91	0.00000	0.95789
	10	0	91	0.00000	0.95789
	11	0	91	0.00000	0.95789
	12	0	91	0.00000	0.95789
	13	0	91	0.00000	0.95789
	14	1	92	0.01053	0.96842
	15	0	92	0.00000	0.96842
	16	0	92	0.00000	0.96842
	17	0	92	0.00000	0.96842
	18	1	93	0.01053	0.97895
	19	0	93	0.00000	0.97895
	20	0	93	0.00000	0.97895
	21	1	94	0.01053	0.98947
	22	1	95	0.01053	1.00000
	23	0	95	0.00000	1.00000

1/ Refer to Appendix Table A10 for counts of non-jacks.

Appendix Table A26. Crystal Creek (Crystal Lake Hatchery - Stream No. 106-44-031) weir counts of jack coho salmon, 1985 1/ 2/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	10	0	0	0.00000	0.00000
	11	0	0	0.00000	0.00000
	12	0	0	0.00000	0.00000
	13	0	0	0.00000	0.00000
	14	0	0	0.00000	0.00000
	15	0	0	0.00000	0.00000
	16	8	8	0.01207	0.01207
	17	0	8	0.00000	0.01207
	18	0	8	0.00000	0.01207
	19	0	8	0.00000	0.01207
	20	0	8	0.00000	0.01207
	21	0	8	0.00000	0.01207
	22	0	8	0.00000	0.01207
	23	6	14	0.00905	0.02112
	24	0	14	0.00000	0.02112
	25	0	14	0.00000	0.02112
	26	0	14	0.00000	0.02112
	27	0	14	0.00000	0.02112
	28	0	14	0.00000	0.02112
	29	0	14	0.00000	0.02112
	30	2	16	0.00302	0.02413
October	1	0	16	0.00000	0.02413
	2	0	16	0.00000	0.02413
	3	0	16	0.00000	0.02413
	4	0	16	0.00000	0.02413
	5	0	16	0.00000	0.02413
	6	0	16	0.00000	0.02413
	7	0	16	0.00000	0.02413
	8	80	96	0.12066	0.14480
	9	0	96	0.00000	0.14480
	10	0	96	0.00000	0.14480
	11	0	96	0.00000	0.14480
	12	0	96	0.00000	0.14480
	13	0	96	0.00000	0.14480
	14	105	201	0.15837	0.30317
	15	196	397	0.29563	0.59879
	16	0	397	0.00000	0.59879
	17	0	397	0.00000	0.59879
	18	0	397	0.00000	0.59879
	19	0	397	0.00000	0.59879
	20	0	397	0.00000	0.59879

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Appendix Table A26. Crystal Creek (Crystal Lake Hatchery - Stream No. 106-44-031) weir counts of jack coho salmon, 1985 1/ 2/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	21	0	397	0.00000	0.59879
	22	0	397	0.00000	0.59879
	23	144	541	0.21719	0.81599
	24	110	651	0.16591	0.98190
	25	0	651	0.00000	0.98190
	26	0	651	0.00000	0.98190
	27	0	651	0.00000	0.98190
	28	0	651	0.00000	0.98190
	29	0	651	0.00000	0.98190
	30	6	657	0.00905	0.99095
	31	0	657	0.00000	0.99095
November	1	0	657	0.00000	0.99095
	2	0	657	0.00000	0.99095
	3	0	657	0.00000	0.99095
	4	0	657	0.00000	0.99095
	5 3/	6	663	0.00905	1.00000

1/ Refer to Appendix Table A12 for counts of non-jacks.
2/ Data of limited value due to the lack of daily passage through the weir.
3/ Last day of jack passage, weir pulled on December 11, 1985.

Appendix Table A27. Auke Creek (Stream No. 111-50-042) weir counts of hatchery jack coho salmon, 1985 1/ 2/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	3	0	67	0.00000	0.89333
	4	1	68	0.01333	0.90667
	5	2	70	0.02667	0.93333
	6	1	71	0.01333	0.94667
	7	0	71	0.00000	0.94667
	8	0	71	0.00000	0.94667
	9	2	73	0.02667	0.97333
	10	1	74	0.01333	0.98667
	11	0	74	0.00000	0.98667
	12	0	74	0.00000	0.98667
	13	0	74	0.00000	0.98667
	14	0	74	0.00000	0.98667
	15 3/	1	75	0.01333	1.00000

1/ Hatchery fish identified by ventral fin clip, then killed at the weir.
2/ Refer to Appendix Table A17 for counts of hatchery non-jacks.
3/ Last day of jack passage, weir pulled on November 2, 1985.

Appendix Table A27. Auke Creek (Stream No. 111-50-042) weir counts of hatchery jack coho salmon, 1985 1/ 2/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	22	0	0	0.00000	0.00000
	23	0	0	0.00000	0.00000
	24	0	0	0.00000	0.00000
	25	0	0	0.00000	0.00000
	26	0	0	0.00000	0.00000
	27	0	0	0.00000	0.00000
	28	0	0	0.00000	0.00000
	29	0	0	0.00000	0.00000
	30	0	0	0.00000	0.00000
	31	0	0	0.00000	0.00000
September	1	0	0	0.00000	0.00000
	2	0	0	0.00000	0.00000
	3	0	0	0.00000	0.00000
	4	0	0	0.00000	0.00000
	5	1	1	0.01333	0.01333
	6	0	1	0.00000	0.01333
	7	0	1	0.00000	0.01333
	8	0	1	0.00000	0.01333
	9	0	1	0.00000	0.01333
	10	0	1	0.00000	0.01333
	11	0	1	0.00000	0.01333
	12	0	1	0.00000	0.01333
	13	0	1	0.00000	0.01333
	14	0	1	0.00000	0.01333
	15	0	1	0.00000	0.01333
	16	1	2	0.01333	0.02667
	17	1	3	0.01333	0.04000
	18	3	6	0.04000	0.08000
	19	4	10	0.05333	0.13333
	20	3	13	0.04000	0.17333
	21	3	16	0.04000	0.21333
	22	0	16	0.00000	0.21333
	23	0	16	0.00000	0.21333
	24	12	28	0.16000	0.37333
	25	4	32	0.05333	0.42667
	26	4	36	0.05333	0.48000
	27	12	48	0.16000	0.64000
	28	0	48	0.00000	0.64000
	29	0	48	0.00000	0.64000
	30	10	58	0.13333	0.77333
October	1	3	61	0.04000	0.81333
	2	6	67	0.08000	0.89333

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Appendix Table A28. Auke Creek (Stream No. 111-50-042) weir counts of wild jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	11	1	1	0.00826	0.00826
	12	1	2	0.00826	0.01653
	13	1	3	0.00826	0.02479
	14	4	7	0.03306	0.05785
	15	3	10	0.02479	0.08264
	16	7	17	0.05785	0.14050
	17	2	19	0.01653	0.15702
	18	7	26	0.05785	0.21488
	19	5	31	0.04132	0.25620
	20	6	37	0.04959	0.30579
	21	4	41	0.03306	0.33884
	22	10	51	0.08264	0.42149
	23	4	55	0.03306	0.45455
	24	21	76	0.17355	0.62810
	25	5	81	0.04132	0.66942
	26	5	86	0.04132	0.71074
	27	9	95	0.07438	0.78512
	28	2	97	0.01653	0.80165
	29	2	99	0.01653	0.81818
	30	1	100	0.00826	0.82645
October	1	4	104	0.03306	0.85950
	2	1	105	0.00826	0.86777
	3	1	106	0.00826	0.87603
	4	2	108	0.01653	0.89256
	5	3	111	0.02479	0.91736
	6	1	112	0.00826	0.92562
	7	4	116	0.03306	0.95868
	8	0	116	0.00000	0.95868
	9	0	116	0.00000	0.95868
	10	0	116	0.00000	0.95868
	11	0	116	0.00000	0.95868
	12	2	118	0.01653	0.97521
	13	0	118	0.00000	0.97521
	14	0	118	0.00000	0.97521
	15	0	118	0.00000	0.97521
	16	0	118	0.00000	0.97521
	17	1	119	0.00826	0.98347
	18	0	119	0.00000	0.98347
	19	1	120	0.00826	0.99174
	20	0	120	0.00000	0.99174
	21	0	120	0.00000	0.99174
	22	0	120	0.00000	0.99174

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Appendix Table A28. Auke Creek (Stream No. 111-50-042) weir counts of wild jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
October	23	0	120	0.00000	0.99174
	24	0	120	0.00000	0.99174
	25	0	120	0.00000	0.99174
	26	0	120	0.00000	0.99174
	27	0	120	0.00000	0.99174
	28 2/	1	121	0.00826	1.00000

1/ Refer to Appendix Table A18 for counts of wild non-jacks.
2/ Last day of jack passage, weir pulled on November 2, 1985.

Appendix Table A29. Salmon Lake (Stream No. 113-41-032) weir counts of jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	27	0	0	0.00000	0.00000
	28	0	0	0.00000	0.00000
	29	0	0	0.00000	0.00000
	30	0	0	0.00000	0.00000
	31	0	0	0.00000	0.00000
September	1	0	0	0.00000	0.00000
	2	0	0	0.00000	0.00000
	3	0	0	0.00000	0.00000
	4	0	0	0.00000	0.00000
	5	0	0	0.00000	0.00000
	6	0	0	0.00000	0.00000
	7	0	0	0.00000	0.00000
	8	0	0	0.00000	0.00000
	9	0	0	0.00000	0.00000
	10	0	0	0.00000	0.00000
	11	0	0	0.00000	0.00000
	12	0	0	0.00000	0.00000
	13 2/	0	0	0.00000	0.00000
	14 2/	0	0	0.00000	0.00000
	15 3/	0	0	0.00000	0.00000
	16	0	0	0.00000	0.00000
	17	1	1	0.00885	0.00885
	18 2/	0	1	0.00000	0.00885
	19 2/	0	1	0.00000	0.00885
	20 2/	0	1	0.00000	0.00885
	21 2/	0	1	0.00000	0.00885
	22 2/	0	1	0.00000	0.00885
	23	2	3	0.01770	0.02655
	24	5	8	0.04425	0.07080
	25	1	9	0.00885	0.07965
	26	0	9	0.00000	0.07965
	27	0	9	0.00000	0.07965
	28	0	9	0.00000	0.07965
	29 4/	0	9	0.00000	0.07965
	30	2	11	0.01770	0.09735
October	1	20	31	0.17699	0.27434
	2	53	84	0.46903	0.74336
	3	7	91	0.06195	0.80531
	4	1	92	0.00885	0.81416
	5	3	95	0.02655	0.84071
	6	2	97	0.01770	0.85841
	7	1	98	0.00885	0.86726

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Appendix Table A29. Salmon Lake (Stream No. 113-41-032) weir counts of jack coho salmon, 1985 1/ (continued).

Date	Number Daily		Proportions	
	Daily	Cummulative	Daily	Cummulative
October 8	0	98	0.00000	0.86726
9 5/	0	98	0.00000	0.86726
10	2	100	0.01770	0.88496
11	1	101	0.00885	0.89381
12	2	103	0.01770	0.91150
13	5	108	0.04425	0.95575
14	3	111	0.02655	0.98230
15	2	113	0.01770	1.00000
16	0	113	0.00000	1.00000
17	0	113	0.00000	1.00000

1/ Refer to Appendix Table A19 for counts of non-jacks.
2/ Weir closed due to saturation of stream with pink salmon.
3/ Weir closed due to high turbid water.
4/ Weir left closed due to lack of coho.
5/ Weir closed when crew went to town to walk Indian River for coho salmon.

Appendix Table A30. Ford Arm Lake (Stream No. 113-73-003) weir counts of jack coho salmon, 1985 1/.

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
August	17	0	0	0.00000	0.00000
	18	0	0	0.00000	0.00000
	19	0	0	0.00000	0.00000
	20	0	0	0.00000	0.00000
	21	0	0	0.00000	0.00000
	22	0	0	0.00000	0.00000
	23	0	0	0.00000	0.00000
	24	0	0	0.00000	0.00000
	25	1	1	0.00362	0.00362
	26	1	2	0.00362	0.00725
	27	0	2	0.00000	0.00725
	28	0	2	0.00000	0.00725
	29	3	5	0.01087	0.01812
	30	3	8	0.01087	0.02899
	31	0	8	0.00000	0.02899
September	1	2	10	0.00725	0.03623
	2	10	20	0.03623	0.07246
	3	9	29	0.03261	0.10507
	4	18	47	0.06522	0.17029
	5	12	59	0.04348	0.21377
	6	18	77	0.06522	0.27899
	7	1	78	0.00362	0.28261
	8	1	79	0.00362	0.28623
	9	0	79	0.00000	0.28623
	10	15	94	0.05435	0.34058
	11	6	100	0.02174	0.36232
	12	6	106	0.02174	0.38406
	13	8	114	0.02899	0.41304
	14	5	119	0.01812	0.43116
	15	21	140	0.07609	0.50725
	16	18	158	0.06522	0.57246
	17	14	172	0.05072	0.62319
	18	10	182	0.03623	0.65942
	19	5	187	0.01812	0.67754
	20	12	199	0.04348	0.72101
	21	4	203	0.01449	0.73551
	22	2	205	0.00725	0.74275
	23	8	213	0.02899	0.77174
	24	6	219	0.02174	0.79348
	25	5	224	0.01812	0.81159
	26	2	226	0.00725	0.81884
	27	3	229	0.01087	0.82971

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Appendix Table A30. Ford Arm Lake (Stream No. 113-73-003) weir counts of jack coho salmon, 1985 1/ (continued).

Date		Number Daily		Proportions	
		Daily	Cummulative	Daily	Cummulative
September	28	0	229	0.00000	0.82971
	29	2	231	0.00725	0.83696
	30	10	241	0.03623	0.87319
October	1	0	241	0.00000	0.87319
	2	18	259	0.06522	0.93841
	3	1	260	0.00362	0.94203
	4	10	270	0.03623	0.97826
	5	0	270	0.00000	0.97826
	6	2	272	0.00725	0.98551
	7	0	272	0.00000	0.98551
	8	0	272	0.00000	0.98551
	9	0	272	0.00000	0.98551
	10	0	272	0.00000	0.98551
	11	0	272	0.00000	0.98551
	12	1	273	0.00362	0.98913
	13	0	273	0.00000	0.98913
	14	0	273	0.00000	0.98913
	15	1	274	0.00362	0.99275
	16	1	275	0.00362	0.99638
	17	0	275	0.00000	0.99638
	18	0	275	0.00000	0.99638
	19	0	275	0.00000	0.99638
	20	0	275	0.00000	0.99638
	21 2/	1	276	0.00362	1.00000

1/ Refer to Appendix Table A21 for counts of non-jacks.
2/ Last day of jack passage, weir pulled on November 5, 1985.

Appendix B - Separability of Wild and Hatchery Stock Coho Salmon Based on Analysis of Scale Patterns

Appendix B - Separability of Wild and Hatchery Stock Coho Salmon Based on Analysis of Scale Patterns

We did a limited investigation into the discrimination of wild versus hatchery stock coho salmon based on analysis of scale patterns in a linear discriminant function. If wild and hatchery fish could be accurately discriminated based on one or two easily measured scale characteristics then, using a discriminant rule based on prior year standards, the stock of origin could be assigned to fish sampled from the catch when the scales are aged. Estimates of the harvest of hatchery and wild fish could then be rapidly made for all fisheries representatively sampled for scale data. This estimate would be independent from one based on coded microwire tag data. If measurable differences are found then fishery managers could be provided with in-season estimates of the hatchery component of the catch and would be better able to prevent overfishing of wild stocks in fisheries harvesting large numbers of hatchery fish.

Linear discriminant functions were built using scale-pattern data from samples of known origin. We digitized scales from 179 wild stock and 201 hatchery stock age 1.1 coho salmon. Only age 1.1 scales were digitized since nearly all coho salmon from Southeastern Alaska hatcheries are released as freshwater-age 1. An attempt was made to construct the wild stock standards with samples from 50 fish escaping to streams in each of the four quadrant areas (see Figure 1) (Appendix Table B1). The hatchery standard was comprised of 50 fish each from returns to Snettisham, Sheldon Jackson, and Deer Mountain Hatcheries, and 51 fish from returns to Crystal Lake hatchery. The scales from Deer Mountain Hatchery returns were collected in 1983, all other scales from hatchery and wild stocks were sampled in 1985.

Scale images were projected onto a digitizing tablet at 100X magnification using equipment similar to that described by Ryan and Christie (1976). Measurements were taken along an axis perpendicular to the sculptured field in each of three scale zones, and recorded with a microcomputer-controlled digitizing system. We digitized the number of circuli and width between circuli in the Freshwater Annular Zone (focus to last circuli of freshwater annuli) and the Freshwater Plus Growth Zone (the last circulus of the freshwater annulus to the last circulus of freshwater growth) and measured the width of the First Marine Annular Zone (the last circulus of freshwater growth to the last circulus of the first ocean annulus). A set of 35 scale variables were calculated from the incremental distance and circuli count measurements (Appendix Table B2). Stepwise linear discriminant function analysis was used to develop the classification model. A leaving-one-out procedure was used to estimate the accuracy of each model (Lachenbruch 1967).

We found measurable differences in the scale patterns of wild and hatchery coho salmon. As expected, the freshwater growth was less for wild fish than hatchery fish (Appendix Table B3).

Mean classification accuracies (Appendix Table B4) were 79.7% with Variable #66 (the total distance across the freshwater growth zones) in the model and 82.7% with Variables #66 and #61 (number of circuli in the Freshwater

Plus Growth Zone) in the model. Wild fish were classified most accurately, however, classifications were reasonably balanced with 15.6% and 24.9% of the wild and hatchery fish being mis-classified, respectively, in the one variable model.

Using just variable #66, the cutpoint between wild and hatchery fish was 191.6 hundreds of an inch (at 100X magnifiction). This cutpoint is obvious in a plot of the frequency distributions of variable #66 for the two groups (Appendix Figure B1). Based on this model, therefore, a reader would be correct 80% of the time if he assigned fish with a freshwater growth zone of less than or equal to 191 hundreds of an inch to the wild group and those measuring more than 191 to the hatchery group. The classification of fish based on this single variable could easily and quickly be done in conjunction with aging of the scales. Obviously this cutpoint could change from year to year depending on environmental conditions and hatchery rearing procedures, however, these changes are not likely to mask the large differences in freshwater growth between wild and hatchery fish.

This study indicates that there are measurable differences in scale patterns of wild and hatchery stock coho salmon. These differences are quantifiable in a linear discriminant function based on one or two easily measured scale variables. Additional work is warranted in the application of these scale pattern differences toward classification of fish sampled from catches.

Appendix Table B1. Number of scales digitized from wild stock coho salmon escapements, 1985.

Quadrant Area	Location	Stream Number	Number Scales Digitized
Northern Outside	Salmon Lake	113-41-032	1
	Redoubt Lake	113-41-043	14
	Ford Arm Lake	113-73-003	15
		Subtotal =	30
Southern Outside	Warm Chuck Lake	103-80-031	50
		Subtotal =	50
Northern Inside	Falls Lake	109-20-013	2
	Taku River	111-32-032	13
	Montana Creek	111-50-052	10
	King Salmon River	111-70-010	13
	Berners River	115-20-010	10
		Subtotal =	48
Southern Inside	Hugh Smith Lake	101-30-075	17
	Salmon Bay Lake	106-41-010	14
	Stikine River	108-30-075	20
		Subtotal =	51

Appendix Table B2. Scale pattern variables considered for possible inclusion in linear discriminant function analysis models for age 1.1 wild and hatchery coho salmon, 1985.

Variable No.	Description
	First Freshwater (FW) Annular Zone
1	Number of circuli in the zone
2	Distance across the zone
3	Distance: scale focus (C0) to the sexond circulus in zone (C2)
4	Distance: C0 to C4
5	Distance: C0 to C6
6	Distance: C0 to C8
7	Distance: C2 to C4
8	Distance: C2 to C6
9	Distance: C2 to C8
10	Distance: C4 to C6
11	Distance: C4 to C8
12	Distance: fourth from the last circulus of zone to end of zone
13	Distance: second from the last circulus of zone to end of zone
14	Distance: C2 to end of zone
15	Distance: C4 to end of zone
16	Relative Distance: (Variable #3)/(Variable #2)
17	Relative Distance: (Variable #4)/(Variable #2)
18	Relative Distance: (Variable #5)/(Variable #2)
19	Relative Distance: (Variable #6)/(Variable #2)
20	Relative Distance: (Variable #7)/(Variable #2)
21	Relative Distance: (Variable #8)/(Variable #2)
22	Relative Distance: (Variable #9)/(Variable #2)
23	Relative Distance: (Variable #10)/(Variable #2)
24	Relative Distance: (Variable #11)/(Variable #2)
25	Relative Distance: (Variable #12)/(Variable #2)
26	Relative Distance: (Variable #13)/(Variable #2)
27	Average distance between circuli: (Variable #1/Variable #2)
29	Number of circuli in the first 3/4 of the zone
30	Maximum distance between two adjacent circuli in the zone
	Freshwater Plus Growth (PG) Zone
61	Number of circuli in the zone
62	Distance across the zone
	Combined Freshwater Zones
65	Total number of circuli of freshwater growth (Variable #1 + #61)
66	Total distance across the freshwater growth zone (Variable #2 + #62)
67	Relative distance: (Variable #2)/(Variable #66)

Appendix Table B3. Group means (x) and standard error (SE) of basic scale variables between age 1.1 coho salmon sampled from wild and hatchery stocks, 1985 (scale measurements are in 0.01's of inches).

Variable Number	Description	Wild x	Wild SE	Hatchery x	Hatchery SE
1	Number of circuli in first FW annular zone	12.754	0.250	12.915	0.230
2	Distance across first FW annular zone	127.492	2.043	142.905	2.151
61	Number of circuli in FW plus growth zone	4.151	0.186	8.020	0.247
62	Distance across the FW plus growth zone	35.402	1.617	77.498	2.649
65	Total number of circuli of FW growth	16.905	0.297	20.935	0.250
66	Total distance across the FW growth zones	162.894	2.151	220.403	2.794

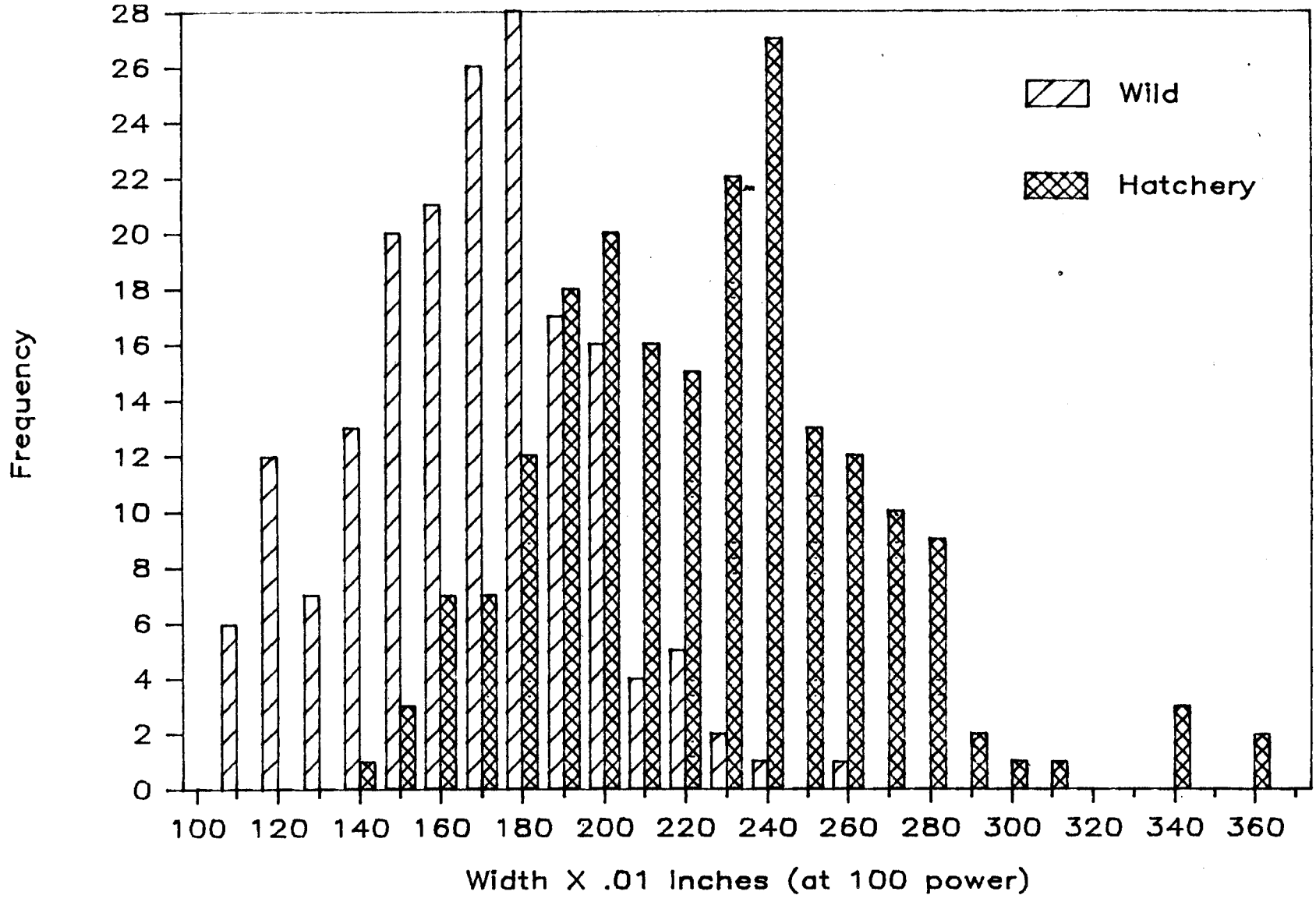
Appendix Table B4. Classification accuracies for linear discriminant function models of wild and hatchery age 1.1 coho salmon, 1985 data.

Variables Included: #66 (total distance across the FW growth zone)

Actual Group of Origin	Sample Size	Classified Group of Origin: Wild	Classified Group of Origin: Hatchery
Wild	179	84.4	15.6
Hatchery	201	24.9	75.1
Mean percentage correctly classified =			79.7

Variables Included: #66 (total distance across the FW growth zone)
#61 (number of circuli in FW plus growth zone)

Actual Group of Origin	Sample Size	Classified Group of Origin: Wild	Classified Group of Origin: Hatchery
Wild	179	88.3	11.7
Hatchery	201	22.9	77.1
Mean percentage correctly classified =			82.7



Appendix Figure B1. Frequency distribution of width across freshwater growth zones (scale variable #66) measured from Southeastern Alaska wild and hatchery coho salmon scales.

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