SOUTH PENINSULA ANNUAL SALMON MANAGEMENT REPORT, 1996

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INTRODUCTION

The Alaska Peninsula Salmon Management Area includes the North Peninsula from Cape Menshikof west to Cape Sarichef, and the South Peninsula from Kupreanof Point west to Scotch Cap on Unimak Island (Appendix A.1). This report describes those fisheries located on the South Peninsula, which is further divided into four districts: (1) the Southeastern District, consisting of waters between Kupreanof Point and McGinty Point; (2) South Central District, consisting of waters between McGinty Point and Arch Point Light; (3) Southwestern District, consisting of waters between Arch Point Light, False Pass, and Cape Pankof; and (4) Unimak District, consisting of waters between Cape Pankof and Scotch Cap (Appendices A.2-A.6). The Southeastern District is further subdivided into two areas which have different management plans during part of the season: (1) the Shumagin Islands Section, consisting of the Shumagin Islands archipelago; and (2) the Southeastern District Mainland, consisting of the waters of Stepovak, Balboa, and Beaver Bays (Appendix D.1).

There are two Alaska Department of Fish and Game (CFMD) offices in the South Peninsula located in Sand Point and Cold Bay (Appendix A.2). In 1990, the Sand Point staff assumed responsibility for managing salmon fisheries in the Southeastern District. The balance of the South Peninsula salmon fisheries are managed from Cold Bay.

Five species of Pacific salmon are commercially harvested in the Alaska Peninsula Management Area: chinook salmon *Oncorhynchus tshawytscha*, sockeye salmon *O. nerka*, chum salmon *O. keta*, pink salmon *O. gorbuscha*, and coho salmon *O. kisutch*.

Only Commercial Fisheries Entry Commission (CFEC) Area M purse seine, drift gillnet, and set gillnet permit holders are allowed to commercially harvest salmon in South Peninsula waters (ADF&G 1996). During 1996, a total of 124 purse seine, 164 drift gillnet, and 114 set gillnet permanent and interim use permits were available to commercially fish for salmon in the South Peninsula (Appendix A.7). The average number of permits fished in the South Peninsula from 1986 through 1995, was 118 purse seine, 149 drift gillnet, and 76 set gillnet. Most purse seine and set gillnet permit holders fish South Peninsula waters throughout the season, while most drift gillnet permit holders fish South Unimak waters during June and North Peninsula waters from July through September. By regulation drift gillnet gear is only allowed in the Unimak District and the Ikatan Bay Section of the Southwestern District. Purse seine, hand purse seine, and set gillnet gear are permitted in most of the South Peninsula, however, some gear restrictions do exist within specified areas (Appendix A.8).

Commercial salmon fisheries in the South Peninsula date back to at least 1888 when canneries were reportedly constructed at Orzinski (Orzenoi) Bay and Thin Point Cove. However, the earliest catch records for the South Peninsula date back to 1908, while permits and landings have only been documented since 1970 (Appendix A.9). Early catches in the South Peninsula were predominantly of sockeye salmon.

A large portion of South Peninsula commercial salmon fisher's earnings come from the harvest of salmon migrating through the area. The South Peninsula fisheries that harvest migrating salmon include:

1. The South Unimak (False Pass) and Shumagin Islands June fisheries (5 AAC 09.365 South Unimak and Shumagin Islands June Salmon Management Plan),

2. The Southeastern District Mainland (Balboa-Stepovak or Stepovak) fishery harvests sockeye salmon bound for the Chignik Management Area (5 AAC 09.360 Southeastern District Mainland Salmon Management Plan) and,

3. The Post June Salmon Management Plan for the Southern Alaska Peninsula (5 AAC 09.366) addresses the harvest of migrating salmon from early through mid-July in South Peninsula cape fisheries.

HARVEST SUMMARY

From 1976 through 1995, the South Peninsula salmon harvest, including test fish catches, averaged 10,312,616 salmon composed of 9,061 chinook, 2,070,445 sockeye, 245,843 coho, 6,634,905 pink, and 1,352,362 chum salmon (Appendix A.9). From 1986 through 1995, the harvest was higher for each species, and averaged 12,046,515 salmon composed of 10,731 chinook, 2,377,330 sockeye, 319,333 coho, 7,825,025 pink, and 1,514,096 chum salmon.

Chinook salmon are of minor commercial importance in South Peninsula waters. From 1986 through 1995, the chinook harvests averaged 10,731 and ranged from 5,589 in 1986 to 17,469 in 1995 (Appendices A.9 and A.10). There are no documented chinook spawning systems in South Peninsula waters. The Chignik River is the only known chinook salmon producer on the southern portion of the entire Alaska Peninsula (Owen and Sarafin 1996).

Sockeye are usually the most economically important salmon species harvested in South Peninsula waters. Most South Peninsula, outside of the Southeastern District Mainland (SEDM) area, sockeye catches during June occur on stocks assumed to be bound for Bristol Bay while most of the sockeye caught in the SEDM fishery are assumed to be bound for Chignik. From 1986 through 1995, the South Peninsula sockeye harvests averaged 2,377,330 salmon and ranged from 1,223,089 in 1986 to 3,689,074 sockeye in 1993 (Appendices A.9 and A.11).

The South Peninsula has several sockeye salmon systems which contribute in varying degrees to the overall production of South Peninsula fisheries (Appendix F.1). Most of these are small, with indexed escapement goals ranging from 200 to 6,400 sockeye (Appendix F.2). Thin Point, Middle Lagoon (Morzhovoi Bay), and Orzinski Lakes are the largest sockeye producing systems in the South Peninsula Management Area with upper indexed escapement goals of 28,000, 32,000, and 30,000 sockeye respectively (Appendices F.3-F.9). During the 1920's and 1930's, Thin Point and Middle Lagoon (Morzhovoi Bay) produced substantial salmon runs. These systems appear to be returning to high production levels through good management of the escapement and an aggressive

enforcement program by the Department of Public Safety. Surplus production from Orzinski Lake sockeye stock is an important contributor to Southeastern District catches.

During June, few coho salmon are harvested in South Peninsula waters, most are caught incidentally from mid-July through mid-August while fisheries are targeting pink and chum salmon. Historically, South Peninsula coho catches have been quite variable (Appendix A.12). From 1923 through 1946, coho catches were relatively high, averaging 148,000 salmon annually. During 1947-58, the average harvest decreased to about 50,000 coho. From 1959 through 1977, the South Peninsula coho harvest averaged 12,000 salmon, with only 67 coho harvested in 1975. Coho catches increased substantially after 1978, averaging 315,654 salmon from 1984-93. In 1988, a record harvest of 505,533 coho occurred in the South Peninsula. From 1986 through 1995, the coho harvest averaged 319,333 fish and ranged from 505,533 in 1988 to 220,148 coho in 1993 (Appendix A.9).

From 1928 through 1950, the Aleutian Islands Management Area harvests were combined with the South Peninsula, however the Aleutian Islands contribution was probably insignificant. During years when Aleutian Islands coho harvests were separated from the South Peninsula harvest, the largest documented coho harvest in the Aleutians was 4,400 salmon in 1918 and the harvest totaled less than 200 salmon during most years (McCullough 1995).

Pink salmon are the most abundant salmon species produced within South Peninsula streams (Appendix F.10; Murphy 1992; McCullough et al. 1995). Runs can fluctuate dramatically from year to year and are heavily influenced by parent year escapements and localized environmental conditions. During the past ten years, the pink salmon harvests averaged 7,825,025 and ranged from 1,208,556 in 1987 to 16,311,770 in 1995 (Appendices A.9 and A.13). Most systems can produce large runs on both even and odd year cycles, but the streams between Cold Bay and Unimak Bight are generally even year producers. Pink salmon normally arrive in substantial numbers around July 20, and the peak of the run usually occurs around August 1. After mid-August the fish quality diminishes due to water marking.

Chum salmon are the second most numerous species found in South Peninsula streams (Appendix F.11). From 1986 through 1995, the chum harvest averaged 1,514,096 salmon and ranged from 994,231 in 1989 to 2,192,079 in 1994 (Appendices A.9 and A.14). Chum runs are typically more stable than pink runs due to the presence of multiple age classes and the tendency of chum salmon to select spawning locations that are less susceptible to scouring and freezing while in freshwater. Chum runs start earlier and last longer than pink runs, however, there is a large variation in run timing among chum stocks.

All South Peninsula fisheries are usually closed from late August until September 1 to achieve pink and chum salmon escapement goals. On September 1, the fisheries reopen and are generally limited to set gillnet fishers, however a few purse seine and drift gillnet fishers occasionally operate during the first week of September. Usually, adverse fall weather conditions limit actual fishing time to about three days per week, and the normally low abundance of salmon during this time greatly reduces the efficiency of the purse seine fleet.

ESCAPEMENT

There are approximately 185 salmon spawning systems in the South Peninsula area, with sockeye salmon found in 23, pink salmon in 110, and chum salmon in 72; coho salmon have been documented in 57 stream systems but this number is probably low. (Murphy 1992). Most surveys for assessing escapement are based on observations made by trained observers from fixed wing aircraft, however foot surveys may also be conducted in certain areas. Salmon escapements, except for the sockeye systems of Orzinski Lake, Thin Point, Mortensen's Lagoon, and Middle Lagoon, are estimated using an indexed total escapement method (Appendix F.2).

The United States Fish and Wildlife Service (USFWS) operated a weir at Orzinski (Orzenoi) Lake from 1929 through 1941(Appendix F.3). In 1990 ADF&G reinstated the weir because of the importance of Orzinski Lake sockeye in determining fishing time for the Northwest Stepovak Section, concerns regarding potential Chignik bound sockeye harvests, and the difficulties involved with estimating fish from the air. ADF&G has operated the weir annually since it was reinstated in 1990. Thin Point Lake was first successfully weired in 1994. Escapement data from Thin Point Lake is important in determining commercial salmon fishing time in Thin Point Cove and to ensure that subsistence needs of King Cove residents are met. Indexed estimates are probably lower than the actual totals. Consequently there will be differences after 1984 between figures used in area management reports and those in formally published reports (technical data reports, bulletins, etc.) which use different expansion factors.

During the 1960's through mid 1970's, Alaska salmon production , including that on the South Peninsula, was very low. Between 1962 and 1976, the total indexed salmon escapement in the South Peninsula averaged 1,280,100 salmon composed of 27,813 sockeye, 957,887 pink, and 294,400 chum salmon (Appendix F.4). From 1977 through 1995, the total indexed escapement averaged 3,179,463 salmon composed of 73,158 sockeye, 2,605,288 pink, and 501,017 chum salmon, more than twice the total escapement for the previous 25 year period.

A separate report provides estimated catch and escapement age, sex, and length data (Nelson and Murphy 1996). In-depth annual salmon management plans provide an overview of the Alaska Peninsula and Aleutian Islands Management Areas commercial, subsistence, and personal use fisheries (Shaul and Berceli 1997), the Aleutian Islands and Atka-Amlia Management Areas (Holmes and Shaul 1996), and the North Alaska Peninsula salmon fisheries (Murphy et al. 1996).

1996 SEASON SUMMARY

During the 1996 South Peninsula salmon season , 47 emergency orders were issued from the ADF&G office in Cold Bay and 44 were issued from the Sand Point office (Appendix E.1). In 1996, the South Peninsula commercial salmon harvest, excluding test fish catches, was 4,778,959 salmon composed of 5,084 chinook, 1,528,767 sockeye, 280,719 coho, 2,188,513 pink, and 775,876 chum salmon (Appendix A.15). The 1996 South Peninsula commercial salmon harvest was the smallest catch since 1987 and the annual harvest for all species was only 40% of the most

recent ten year average (1986-95) harvests. The chinook harvest was 47 % of the 1986-95 average of 10,731 salmon. The sockeye harvest was 64 % of the 1986-95 average of 2,377,330 salmon. The coho harvest was 88 percent of the 1986-95 average of 319,333 salmon. The pink harvest was 28% of the 1986-95 average of 7,825,025 salmon. The chum harvest was 51% of the 1986-95 average of 1,514,096 salmon (Appendix A.9). The exceptionally poor pink and chum salmon harvests during the 1996 season can be attributed to low concentrations of salmon in some areas and to low prices offered by South Peninsula processors.

During the 1996 season, 59% (2,795,818 fish) of the total South Peninsula commercial salmon harvest was caught in the Southeastern District (Appendix A.16). The 1996 Southeastern District harvest by species accounted for 74% of the chinook, 60% of the sockeye, 81% of the coho, 55% of the pink, and 58% of the chum salmon harvested in the South Peninsula.

South Peninsula, purse seine fishers harvested 67% (3,215,031 fish) of the total salmon, while drift gillnet fishers harvested 13% (595,442 fish), and set gillnet fishers caught 20% (968,486 fish). In terms of harvest by species, purse seine fishers caught 76% (3,882 fish) of the chinook, 36% (550,502 fish) of the sockeye, 71% (199,217 fish) of the coho , 86% (1,884,108 fish) of the pink, and 74% (577,322 fish) of the chum salmon (Appendices A.17-A.20).

Most Area M CFEC permits were utilized in 1996; 102 of 124 available purse seine permits recorded landings, as did 147 of 164 drift gillnet permits and 82 of 114 set gillnet permits (Appendix A.7).

As previously mentioned, there are no known chinook salmon spawning systems in the South Peninsula Management Area. The South Peninsula total indexed sockeye escapement goals (including the four systems where estimated total escapements are used) range from 67,800-135,600 sockeye. The 1996 total indexed sockeye escapement of 73,000 salmon did exceed the minimum escapement goal but was below the previous ten year average escapement of 91,000 sockeye (Appendix F.9). Due to limited aerial survey data no formal escapement goals have been established for coho in the South Peninsula. The South Peninsula total indexed pink escapement goals range from 1,600,000-3,180,000 pinks and the 1996 indexed escapement of 3,648,000 was the third highest pink escapement on record (Appendix F.10). The South Peninsula total indexed chum escapement goals range from 350,000-690,000 chums and the 1996 indexed escapement of 610,000 was near the upper escapement goal (Appendix F.11).

During the last twenty five years, South Peninsula salmon runs have increased substantially, and ranged from 1,016,827 salmon in 1974 to a record high of 28,553,587 salmon in 1995. In 1996, South Peninsula salmon runs for all species totaled 9,172,164 salmon (Appendix A.21). The run totals for all salmon species combined does not include coho escapement because only limited data is available. A large portion of the overall increase in South Peninsula salmon runs can be attributed to an increase in pink salmon abundance. Since 1962, South Peninsula pink runs have ranged from 149,300 salmon in 1973 to a record high of 22,530,258 pink salmon in 1995 (Appendix A.22). In 1996, the South Peninsula pink run was estimated at 5,468,385 salmon. During the last twenty five years, South Peninsula chum runs have also increased, and ranged from 223,228 salmon in 1975 to a record high of 2,172,690 chum salmon in 1994. In 1996, the South Peninsula chum run was estimated at 1,026,356 salmon (Appendix A.23).

South Unimak and Shumagin Islands June Fisheries

Introduction

The South Unimak and Shumagin Islands June fisheries date back to at least 1911 (Appendices A.3, B.1, and B.2). The dominant stocks targeted by these fisheries are sockeye salmon bound for Bristol Bay, which has caused controversy between Alaska Peninsula and Bristol Bay fishers for many years (Eggers et al. 1991). During the early to mid-sixties the South Unimak and Shumagin Islands fisheries were open to commercial salmon fishing five days per week (Appendix B.3). During the late 1960's to early 1970's, the fisheries were open seven days per week regardless of the run strength of Bristol Bay sockeye salmon. This fishing schedule created controversy and resulted in special Alaska Board of Fisheries (BOF) meetings concerning this issue in the early 1970's. The South Unimak and Shumagin Islands June management strategy was decided on a year-by-year basis from 1972-1974 due to very low projected Bristol Bay sockeye salmon returns. In 1974, both fisheries were closed during June. After 1974, the BOF implemented an allocation plan where the South Unimak and Shumagin Islands June fisheries would be granted an annual guideline harvest level (GHL) based on the predicted Bristol Bay inshore sockeye salmon harvest. Based on historic catch data, 6.8% of the forecasted inshore Bristol Bay harvest was allocated to the South Unimak June fishery and 1.5% was allocated to the Shumagin Islands fishery. To reduce the possibility of overharvesting any segment of the Bristol Bay run, the guideline harvest was apportioned to discrete time periods based on historical catch data. The distribution of the allocation by time period and percent was as follows:

Time Periods	South Unimak	Shumagin Islands
June 1 - 11	5%	9%
12 - 18	29%	28%
19 - 25	51%	41%
26 - 30	15%	22%
Total	100%	100%

If the guideline harvest for an individual time period was not reached, the unharvested portion was lost to the fishery. If the guideline harvest for an individual time period was exceeded, the overharvest was subtracted from the total season allocation.

Chum salmon are also harvested during the South Unimak and Shumagin Islands June fisheries. In 1982, an unusually large harvest of 1,095,044 chum salmon occurred (Appendix B.4-B.6). The 1982 fall Yukon River chum salmon returns were weak and resulted in increased concerns by Arctic-Yukon-Kuskokwim (AYK) fishers who wanted to curtail or eliminate the South Peninsula June fisheries. Unlike sockeye, which are predominantly bound for Bristol Bay and have recently experienced large returns; chum salmon are bound for numerous areas ranging from Japan to Kotzebue to Prince William Sound, and have recently experienced poor returns, especially in AYK river systems (Eggers et al. 1991; Ogura and Ito 1994; Kron 1994).

In 1984, the BOF placed further restrictions on the South Unimak and Shumagin Islands June fisheries in an attempt to decrease the chum salmon harvest. The new restrictions consisted of

allowing no more than 96 hours of fishing during a seven day period and no more than 72 consecutive hours of fishing. This regulation allowed for closed fishing periods (referred to as windows) between open periods to increase the opportunity for chum salmon to escape the South Peninsula June fisheries.

The following additional restrictions applied during the1986 season:

1. No fishing prior to June 11.
2. No fishing during June 26-30 and the loss of that periods allocation.
3. A 400,000 chum salmon catch limit (chum cap).

These restrictions, plus low availability of sockeye salmon, resulted in only 471,397 of the 1,107,000 sockeye salmon allocation being harvested.

The fall 1986 BOF meeting adjourned (with three members resigning), without taking action on the South Unimak and Shumagin Islands June fisheries. The regulations passed in 1986 were rescinded and the 1987 fisheries were managed similar to the 1984-1985 June fisheries.

A sockeye and chum salmon tagging project in the South Unimak and Shumagin Islands fisheries was conducted during June 1987. The tagging project indicated that chum salmon are from stocks scattered all around the North Pacific and Bering Sea, from Japan to British Columbia, while the majority of the sockeye salmon were from Bristol Bay (Eggers et al. 1991).

During the spring of 1988, the BOF placed a 500,000 (fish) chum cap on the South Unimak and Shumagin Islands June fisheries (i.e., after 500,000 chum salmon were harvested the fishery would close; Shaul and Schwarz 1989). During many years, it would be difficult or impossible to harvest the sockeye salmon allocation due to the chum salmon cap. In 1988, the South Unimak sockeye harvest was reduced by an estimated 669,000 salmon due to the 500,000 chum cap. The 669,000 reduction was in addition to an estimated 117,000 sockeye salmon forfeited from other management plan restrictions (i.e., no more than 96 hours to be fished in any 7 day period and no more than 72 consecutive hours). In 1988, the Shumagin Islands fishery harvested its sockeye allocation.

In 1989, South Peninsula fishers harvested the June sockeye allocation (Shaul et al. 1990). However, this was due to a low Bristol Bay forecast, and consequently low South Unimak and Shumagin Islands allocations (Appendices B.7-B.9). If the Bristol Bay inshore sockeye harvest had been perfectly forecast, the South Unimak fishery harvest would have been approximately 400,000 sockeye short of its allocation, due to the 500,000 chum cap. Sockeye catch rates were so high in the Shumagin Islands that fishers there could have easily harvested the allocation before the chum cap was reached.

Following the 1989 season, the BOF made the following changes to the South Unimak and Shumagin Islands June fisheries (Appendix B.3):

1. The starting date of the fishery was delayed until June 13; the sockeye to chum salmon ratio usually improves after June 12.

2. The chum cap for both fisheries combined was raised from 500,000 to 600,000 salmon.

3. The "window regulations" were eliminated, as there did not seem to be a need for both a chum salmon cap and windows (Eggers et al. 1991).

4. The sockeye allocations and time periods became the same for each fishery.

Time Periods	South Unimak and Shumagin Islands
June 13 - 18	35%
19 - 25	45%
26 - 30	20%
Total	100%

If catches in either fishery fall below the guidelines in the June 13-18 period, those unharvested sockeye salmon up to a maximum of five percent of the total allocation for that fishery may be harvested during the June 19-25 period. The June 26-30 period cannot be used to make up for underharvests during the first two periods. The best available data indicated that the sockeye salmon stock composition between the first two periods was very similar, however the June 25-30 stock composition at South Unimak and the Shumagin Islands fisheries may be dominated by fewer stocks with a later run timing (Eggers et al. 1991).

5. Unlimited seine leads were eliminated at South Unimak, leads of 50 to 150 fathoms are the only legal lengths for the entire Alaska Peninsula.

6. Maximum depth restrictions were placed on all seine and gillnet gear. For the entire Alaska Peninsula Area, seine depths may not exceed 375 meshes in depth. Seine mesh may not exceed 3-1/2 inches except the first 25 meshes above the lead line may not be more than 7 inches. Gillnet gear used in South Peninsula waters may not exceed 90 meshes in depth.

7. The area comprising the South Unimak fishery was extended to include the following portions of the Southwestern District located outside the Ikatan Bay Section:

   (a) all waters north and west of a line from Cape Pankof Light to Thin Point.
   (b) all waters enclosed by a line from Thin Point to Stag Point on Deer Island to Dolgoi Cape and from Bluff Point on Dolgoi Island to Arch Point.

It is not known what impact the reduction in gear depth, adopted by the BOF prior to the 1990 season, had on gear efficiency or if the gear reduction caused a reallocation of the salmon resources between gear types. There are too many other factors influencing the harvest each year to determine how the gear changes alone effect the harvest (Campbell et al. 1997).

In 1990, a test fishing program was instituted in the Shumagin Islands during June to aid the South Peninsula management staff in determining sockeye to chum salmon ratios and salmon average weights by species (Shaul et al. 1993). The ADF&G attempts to have commercial salmon fishing periods when the harvest of sockeye salmon is expected to be high in relation to the chum salmon

harvest. The ratio of sockeye to chum salmon is normally low in early June, highest when the sockeye run peaks during mid to late June and during some years is again low during late June (Shaul et al. 1992). From 1970 through 1992, most sockeye and chum salmon were harvested during June 12-26 in both the Shumagin Islands and the South Unimak fisheries.

Before the June 11 regulated opening date, test fishing occurs to determine the most favorable periods of sockeye to chum salmon ratios. Test fishing was standardized to purse seine gear making 20 minute sets at Popof Head, Middle Set, and Red Bluff; additional sets are made if time allows (Appendix B.10; McCullough and Shaul 1992). During off-loading, the catch is separated by species, counted, and weighed. Purse seine vessels are selected randomly from a list of skippers that have expressed an interest in the test fishery.

During 1990, sockeye salmon were not available in large numbers at either the Shumagin Islands or South Unimak fisheries even though Bristol Bay experienced one of its largest runs on record (Shaul et al. 1991). Inclement weather plagued fishing operations but fish abundance also seemed low, especially in view of the large run to Bristol Bay. The South Unimak fishery sockeye harvest was 1,090,710 salmon with a guideline harvest of 1,087,000 (Appendix B.5). The Shumagin Islands sockeye harvest was 255,585 salmon with a guideline harvest of 240,000 (Appendix B.6). During June, the South Unimak fishery was open to commercial salmon fishing for 281 hours during 13 days, while the Shumagin Islands fishery was open for 200 hours during 9 days (Appendix B.11). The total chum harvest was 518,739 salmon, consisting of 63,501 salmon from the Shumagin Islands fishery and 455,238 salmon from the South Unimak fishery.

If the 1990 Bristol Bay forecast had been perfectly forecast, the South Unimak and Shumagin Islands guideline harvest levels would have been substantially higher (Appendices B.7-B.9). However, due to the 600,000 chum ceiling, the South Unimak fishery would have been about 1,050,000 sockeye short of its allocation while the Shumagin Islands fishery would have been about 35,000 sockeye salmon short of its corrected allocation. If there were no chum salmon cap, the Shumagin Islands fishery would have easily taken its sockeye allocation, with an estimated chum harvest of about 135,000 salmon. Even without a chum salmon cap, the South Unimak fishery would have harvested only about 1,600,000 of its corrected sockeye allocation while harvesting an estimated 700,000 chum salmon.

The 1991 regulations governing the South Peninsula fisheries were similar to the 1990 regulations. At South Unimak the sockeye catch was 1,215,658 salmon, well below the 1,573,000 allocation and the chum harvest was 670,103 salmon (Appendix B.5). In 1991, the Shumagin Islands June sockeye harvest was 333,272 salmon, slightly below the 347,000 allocation and the chum harvest was 102,602 salmon (Appendix B.6; Shaul et al. 1992). The combined South Unimak and Shumagin Islands fisheries chum catch equaled 772,705 salmon, which exceeded the 600,000 chum salmon cap and by regulation both fisheries closed.

In November 1991, the BOF changed the South Unimak and Shumagin Islands June chum cap from 600,000 fish to 40 percent of the sockeye salmon allocation and the chum cap was not to exceed 900,000 chum salmon. Due to the large 1992 Bristol Bay sockeye salmon forecast, the chum cap was established at 900,000 salmon. The 900,000 chum salmon cap generated a great deal of debate with AYK Region fishers. The BOF relied extensively on the 1987 South Unimak and

Shumagin Islands chum and sockeye salmon tagging study when they increased the chum cap (Eggers et al. 1991). An error found in the 1987 tagging study indicated that the study had underestimated the impact of the South Unimak and Shumagin Islands June fisheries on AYK chum salmon stocks, including those of Norton Sound. This discovery provided enough new information for the South Unimak and Shumagin Islands chum salmon cap issue to be reconsidered at the March 1992 BOF meeting in Juneau. After reconsideration, the BOF changed the chum salmon cap to an annual 700,000 fish limit (Shaul et al. 1993).

Prior to the 1992 South Peninsula June fisheries, ADF&G acted to minimize the harvest of chum salmon. ADF&G closed waters around Sanak Island, bounded by the latitude of Hague Rock and the longitude of Cape Pankof Light below Hague Rock's latitude to commercial salmon fishing during June (Appendix B.2; Shaul et al. 1993). Historically, Sanak Island waters had been fished sporadically, but had produced unacceptably low sockeye to chum salmon ratios.

In 1992, the South Unimak harvest was 2,046,022 sockeye and 323,891 chum salmon (Appendix B.5). The Shumagin Islands fishery produced a harvest of 411,834 sockeye and 102,312 chum salmon (Appendix B.6). The Shumagin Islands sockeye catch was below the 432,000 allocation, while the South Unimak fishery exceeded the sockeye allocation by 87,022 salmon. Because the total June sockeye catch (2,457,856 salmon) exceeded the combined June allocation (2,391,000 salmon) both fisheries were closed. The combined chum harvest was 426,203 salmon, well below the 700,000 chum cap (Appendix B.4). If the 1992 Bristol Bay forecast had been perfectly forecast, the combined South Unimak and Shumagin Islands guideline harvest levels would have been 2,857,000 salmon (Appendix B.7). If the perfect forecast was available, the South Unimak and Shumagin Islands fisheries would have been able to harvest the additional 399,144 sockeye salmon and remained below the 700,000 chum cap.

In 1993, the South Unimak harvest was 2,366,573 sockeye and 381,941 chum salmon. The Shumagin Islands harvest was 607,171 sockeye and 150,306 chum salmon. For both fisheries combined the harvest was 2,973,744 sockeye and 532,247 chum salmon. The Shumagin Islands harvest was 83,171 sockeye above its allocation, while the South Unimak fishery was 8,427 sockeye below its allocation. The GHL was exceeded in the Shumagin Islands when some salmon caught in the Shumagin Islands fishery were delivered in the South Unimak fishery without notifying the Sand Point management staff. The combined harvest for both fisheries was 2,973,744 sockeye and 532,247 chum salmon, 74,744 sockeye more than the allocation and 167,753 chum salmon less than the cap.

Prior to the 1994 commercial salmon season, the BOF eliminated the time period requirements and designated June 13 as the earliest possible opening date of the South Unimak and Shumagin Islands fisheries. The BOF action gave ADF&G the flexibility to establish fishing periods based on favorable sockeye to chum salmon ratios (McCullough and Pengilly 1994).

In 1994, the South Unimak harvest was 1,001,250 sockeye and 374,409 chum salmon. The Shumagin Islands harvest was 460,013 sockeye and 207,756 chum salmon. The Shumagin Islands sockeye harvest was 187,987 sockeye below their allocation, while the South Unimak fishery was 1,936,750 sockeye below the allocation. The combined harvest for both fisheries was 1,461,263 sockeye and 582,165 chum salmon, 2,124,737 sockeye salmon below the GHL and 117,835 chum

salmon below the cap. The GHL was not achieved because sockeye salmon were not available in large numbers in either fishery.

Following the 1994 season, the Alaska Board of Fisheries implemented the following changes:

1. June fishery cannot begin prior to June 11.

2. After June 24, in either the South Unimak or Shumagin Islands fishery, if the sockeye salmon guideline harvest level and the maximum allowable harvest of chum salmon have not been attained, and if the ratio of sockeye to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration in that fishery. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye to chum salmon is two to one or less for any three aggregate days.

3. The Board stated its intent that the maximum harvest or less of 700,000 chum salmon supersedes attempts to reach the sockeye salmon guideline harvest levels.

   The Board eliminated the provision for the fisheries to continue into early July if weather prevented fishing at the end of June.

4. The Board eliminated mesh size requirements for gillnets during the June fisheries.

In 1995, the South Unimak fishery harvest was 1,451,490 sockeye and 342,307 chum salmon.; the fishery was 1,535,510 sockeye under the GHL of 2,987,000 salmon. The Shumagin Islands fishery catch totaled 653,831 sockeye and 195,126 chum salmon.; the fishery was 5,169 sockeye under the GHL of 659,000 salmon. The combined harvest for both fisheries was 2,105,321 sockeye and 537,433 chum salmon; 1,540,679 sockeye less than the GHL (3,646,000) and 162,567 chum less than the 700,000 cap. The GHL was not achieved because sockeye salmon were not available in large numbers in either fishery.

1996 Season Summary

Based on the Bristol Bay forecast, the 1996 South Unimak and Shumagin Islands sockeye salmon guideline harvest levels were as follows (Beverly Cross, ADF&G Anchorage, personal communication):

June	Percent	South Unimak	Shumagin Islands	Total
Total	100%	2,564,000	566,000	3,130,000

Test fisheries at South Unimak and in the Shumagin Islands were used to assist area management biologists to establish the opening dates of the fisheries. At South Unimak, a formal bid process was required to select a test fishing vessel because the vessel had to remain on the grounds for the

duration of the test fishery which could last several days. In the Shumagin Islands, test fishing occurs near Sand Point and the vessels return to port each day. The low bidder for the South Unimak test fishery had numerous mechanical problems and could not fulfill its contract. The next lowest bidder assumed the contract and performed well. On June 14, the South Unimak overall test fishing ratio was 1:54 to 1.0 sockeye per chum salmon, however three of the four sets had ratios greater than 3:1, and a fishing period was announced for June 15 at South Unimak (Appendix B.12). In the Shumagin Islands, test fishing indicated sockeye to chum salmon ratios were less than 1.0:1.0 and fishing was not allowed until June 18 (Appendix B.13).

Sockeye salmon harvest rates were extremely low in both the South Unimak and Shumagin Islands fisheries and almost continuous fishing was allowed (Appendix B.14). At the South Unimak fishery, despite continuous fishing from June 15 through June 30, only 572,495 sockeye (22.3 % of the allocation) were harvested (Appendix B.15). In the Shumagin Islands Section, 456,475 sockeye (80.6% of the allocation) were harvested (Appendix B.16). The South Unimak and Shumagin Islands total June sockeye harvest was 1,028,970 salmon (33 % of the allocation). For the last three years, the GHL's have not been achieved because sockeye salmon were not available in large numbers in either fishery. The South Unimak and Shumagin Islands combined June chum harvest was 359,820 salmon (129,889 at South Unimak and 229,931 in the Shumagin Islands Section), 340,180 fish below the 700,000 chum cap.

Legal gear types in the South Unimak fishery include purse seine, hand purse seine, drift gillnet, and set gillnets. In the Shumagin Islands fishery only purse seine, hand purse seine, and set gillnets are permitted (Appendix A.8). During the 1996 South Unimak June fishery, purse seine gear harvested 22.2% of the sockeye (127,366 fish) and 32.0% of the chum salmon (41,416 fish) (Appendices B.17 and B.18). Drift gillnet gear harvested 73.7% of the sockeye (421,882 fish), and 66.3% of the chum salmon (86,103 fish) (Appendix B.19). Set gillnet gear harvested 4.1% of the sockeye (23,247 fish) and 1.7% of the chum salmon (2,270) (Appendix B.20).

During the 1996 Shumagin Islands June fishery, purse seine gear harvested 75.0% of the sockeye (342,317 fish) and 95.9% of the chum salmon (220,449 fish; Appendices B.18 and B.21). Set gillnet gear harvested 25% of the sockeye (114,158 fish) and 4.1%of the chum salmon (9,482 fish; Appendix B.22). For both fisheries combined, purse seine gear harvested 45.6% of the sockeye (469,683 fish) and 72.8% of the chum salmon (261,965 fish), drift gillnet fishers harvested 41.0% of the sockeye (421,882 fish) and 23.9% of the chum salmon (86,103 fish), while set gillnet fishers harvested 13.4% of the sockeye (137,405 fish) and 3.3% of the chum salmon (11,752 fish; Appendices B.23- B.26).

The sockeye to chum salmon ratio at South Unimak during June, was 4.41:1.0, in the Shumagin Islands the ratio was 1.99:1.0, and the overall ratio for both fisheries, all gear combined, was 2.86:1.0 (Appendix B.27). In the South Unimak fishery, the sockeye to chum salmon ratio was 3.1:1.0 for purse seine, 4.9:1.0 for drift gillnet, and 10.2:1.0 for set gillnet fishers (Appendix B.28). In the Shumagin Islands, the sockeye to chum salmon ratio was 1.6:1.0 for purse seine, and 12.0:1.0 for set gillnet fishers. During June, 99 purse seine, 147 drift gillnet, and 67 set gillnet permit holders commercially fished in the South Unimak and Shumagin Islands fisheries (Appendix B.29).

South Peninsula Post June Fisheries

Introduction

Before 1974, post June South Peninsula fisheries were generally open five days per week, with a total season closure on August 10 to provide adequate escapement and maintain product quality (McCullough 1995). During 1974 and 1975, the fishery was severely restricted to rebuild pink salmon runs. From about 1976 to 1991, the salmon fishery was managed by emergency order based on local stock run strength. Fishing periods from July 6 to about July 18 were based on chum salmon run strength, and from July 18 through about August 20 on pink salmon run strength .Fishing continued into late August in years of strong pink runs. Migratory salmon were also harvested during these openings, and contributed substantially to the total post June harvest in some years. Before 1992, South Peninsula waters east of Rock Island were opened to commercial salmon fishing about July 6, except in the SEDM fishery, which is managed through July 25 on a separate management plan (5 AAC 09.360. Southeastern District Mainland Salmon Management Plan) (Appendix C.1). Beginning September 1, fishing periods were established by emergency order and based on local coho run strength, and to a lesser degree on pink and chum salmon runs.

In November 1991, the BOF established the Post June Salmon Management Plan for the Southern Alaska Peninsula (5 AAC 09.366; McCullough 1995). This plan allowed for the harvest of local stocks through July 19 in terminal areas only, closing the remainder of the South Peninsula formerly opened in post June fisheries (Appendix C.2). The BOF decision was partially based on the concept that local pink and chum salmon could be caught in terminal areas early in the season without sacrificing product quality, while at the same time allowing migratory salmon to pass through South Peninsula waters. After July 19, the BOF concluded that South Peninsula fishers needed to harvest pink salmon in their traditional cape fishing areas to maintain product quality and to allow for available processing capacity. Under this new plan, commercial salmon fishing from July 6-19 would be restricted to terminal fishing areas opened by emergency order, based on local stock run strength as determined by harvest and escapement rates. These areas include Zachary Bay and the northern portion of Pavlof Bay, and the Cold Bay, Thin Point, Canoe Bay, and Morzhovoi Bay Sections (Appendix C.3). From July 20 through the remainder of the commercial salmon season, the entire South Peninsula could be opened to commercial salmon fishing by emergency order based on local run stock strength (except in the Southeastern District Mainland fishery through July 25) (ADF&G 1996).

The Stepovak-Shumagin Setnet Association sued the BOF in early 1992, to stop the implementation of the Post June Salmon Management Plan for the Southern Alaska Peninsula (5 AAC 09.366). On July 10, 1992 , Alaska State Superior Court Judge Hopwood (Third Judicial District, Kodiak) granted an injunction staying the enforcement of the new management plan. On July 13, "traditional" commercial salmon fishing periods resumed, and additional fishing periods were announced as conditions warranted (Shaul et al. 1993).

In March 1993, the Alaska State Superior Court reconsidered the 1992 injunction staying the enforcement of the Post June Salmon Management Plan. After reconsideration, the court agreed with the State of Alaska and the Post June Salmon Management Plan was again in effect for the 1993 through 1996 commercial fishing seasons.

Immature Salmon Concerns

Another factor in the 1991 BOF decision to allow commercial salmon fishing only in limited areas within South Peninsula waters were concerns for immature salmon (sockeye, chum, and chinook) which are inadvertently gilled in purse seine gear during normal fishing operations (McCullough and Shaul 1992).

ADF&G first became aware of catches of immature salmon in 1963 and the presence of immature salmon in South Peninsula waters has warranted restrictions to commercial fishing. These restrictions have applied to all gear types, in affected areas during late June into July in 1963, 1968, 1969, 1974, 1979, and for purse seine fishing only during the 1989-92 and 1994 seasons (McCullough et al. 1995).

Immature salmon have been most prevalent in the Shumagin Islands Section and the concern for catching immature salmon is restricted to purse seine gear. Under current regulations, seine mesh size may not exceed 3-1/2 inches except for the first 25 meshes above the lead line, which may not exceed 7 inches (ADF&G 1996). The gillnet gear has larger mesh size (minimum of 5-1/4 inches) which allows the immature salmon to pass through unaffected. After 1979, regulations were adopted curtailing only purse seine fishing in affected areas (McCullough 1995). Immature salmon usually migrate out of the area by July 23, although in 1992 closures remained in effect until July 29.

In 1990, a test fishing program was instituted in the Shumagin Islands to determine the presence and abundance of immature salmon in South Peninsula waters prior to commercial fishing periods in July. In the Shumagin Islands Section, most purse seine fishing effort occurs in the near shore waters of Popof Island from Popof Head to Red Bluff, so test fishing sites were established in that area (Appendix B.10).

1996 Season Summary

The 1996, South Peninsula post June pink salmon harvest was projected to be 7.0 million salmon (Shaul and Campbell 1996). In accordance with the South Peninsula Post June Salmon Management Plan and exclusive of the SEDM fishery, most of the South Peninsula remained closed to commercial salmon fishing from July 1-19. In those areas of the South Peninsula open to commercial fishing from July 1 through July 19, exclusive of the SEDM fishery and test fish catches, the harvest was 23,922 salmon composed of 16 chinook, 10,569 sockeye, 2,848 coho, 7,663 pink, and 2,826 chum salmon (Campbell et al. 1997). The 1996 South Peninsula July 1-19 salmon harvest was below the 1993-96 average harvest for all species except coho salmon.

In 1996, test fishing in the Shumagin Islands prior to the July 20 general fishing period indicated that immature salmon were present, but not in sufficient numbers to close South Peninsula fisheries to purse seine gear (Appendix C.4). In the Shumagin Islands Section, pink salmon escapements into early producing systems were adequate for the date, and it was opened to commercial fishing on July 20 with the balance of the South Peninsula.

During late July and August, preliminary catch reports and aerial surveys of the SEDM area indicated that salmon escapements were below average for the dates. After August 3, the SEDM area, outside of the East Stepovak Section, was closed until further notice to insure salmon escapements.

After July 26, Shumagin Islands catches were well below historical levels for the same dates, and aerial surveys indicated few "new" fish were moving into local streams and bays. Pink salmon escapements continued to be very poor in both the Shumagin Islands Section and the SEDM area, and the entire Southeastern District was closed after August 7 to achieve salmon escapements and did not reopen until September 1.

The 1996 South Peninsula July 20-August 31 commercial salmon harvest, minus the SEDM July 20-25 harvest, was 2,520,041 salmon composed of 1,893 chinook, 178,851 sockeye, 234,281 coho, 1,731,174 pink, and 373,842 chum salmon, well below the 1993-96 average harvest of 9,998,198 salmon composed of 2,239 chinook, 401,946 sockeye, 216,242 coho, 8,542,109 pink, and 835,662 chum salmon (Campbell et al. 1997). In 1996, coho was the only salmon species to have catches during this period exceed the 1993-96 average harvest.

The fall fishery opens on September 1, and commercial salmon fishing periods are based primarily on local coho runs and in some areas on late chum runs. In 1996 the entire South Peninsula commercial salmon harvest, including the SEDM fishery, from September 1 through the end of the fishing season was 55,877 salmon composed of 5 chinook, 26,301 sockeye, 26,525 coho, 136 pink, and 2,910 chum salmon, compared to the 1993-96 average harvest of 129,384 salmon composed of 14 chinook, 44,706 sockeye, 26,534 coho, 664 pink, and 57,466 chum salmon (Campbell et al. 1997).

South Peninsula pink and chum salmon prices during the 1996 season were so low that fishing effort was very light except in areas where some sockeye could be caught with the pink and chums. The Southeastern District pink salmon run was much weaker than expected and the entire Southeastern District was closed during August 8-31 to achieve salmon escapements. In the balance of the South Peninsula districts, fishing time was almost continuous through August 17, however because of limited markets and low prices there practically no fishing effort in those areas.

Prior to 1996, South Peninsula post June catches of all species, except chinook, have generally been increasing. With few exceptions (SEDM fishery, Thin Point Cove, Morzhovoi Bay, and fall fisheries) most fishing periods are based on pink and chum salmon. During directed pink and chum purse seine fisheries, incidental harvests of chinook, sockeye, and coho occur, while most drift and set gillnet effort is directed toward sockeye and coho salmon (McCullough 1990).

Effort Levels. From 1977 through 1990, the use of permits in this fishery showed an increasing trend and peaked in 1989 (Appendix C.5). The number of purse seine permits fished peaked in 1979 while drift gillnet and set gillnet use peaked in 1989 and 1990, respectively (Appendices C.6-C.8). During the last ten years (1986-95), the number of active purse seine permits has fluctuated but remained relatively constant, drift gillnet permit use has declined, and set gillnet activity has increased. During the 1996 season, 85 purse seine (lowest since 1977), 17 drift gillnet, and 78 set gillnet permits were fished.

The number of landings made in this fishery show similar trends and peaked in 1988 (Appendix C.5). The number of purse seine landings peaked in 1984 while drift gillnet and set gillnet landings peaked in 1989 and 1992, respectively (Appendices C.6-C.8). During the last ten years (1986-95), the number of purse seine landings has generally decreased, drift gillnet landings have significantly decreased, and set gillnet landings have increased. During the 1996 season, 707 purse seine (lowest since 1975), 88 drift gillnet (lowest since 1981), and 2,030 set gillnet landings were made.

Harvest. During the last twenty years (1976-95), post June catches of all species in the South Peninsula have averaged 7,725,985 salmon and ranged from 88,839 in 1975 to 18,378,036 salmon in 1995 (Appendix C.9). From 1976 through 1995, the South Peninsula post June harvest averaged 3,411 chinook, 495,555 sockeye, 243,870 coho, 6,116,777 pink, and 866,374 chum salmon. During the last ten years (1986-95), the average harvest indicates an increased catch of all species when compared to the 20-year average. From 1986 through 1995, the harvest averaged 9,332,294 salmon composed of 3,987 chinook, 726,281 sockeye, 315,960 coho, 7,294,254 pink, and 991,812 chum salmon. Most post June South Peninsula salmon are harvested with purse seine gear although the sockeye salmon catch is more evenly distributed between purse seine and set gillnet gear (Appendices C.10-C.16).

Chinook

The 1996 post June South Peninsula chinook harvest of 2,124 salmon was the third smallest catch since 1985, and below the most recent ten year (1986-95) average harvest of 3,987 chinook (Appendix C.9). The 1986 through 1995, South Peninsula post June average chinook salmon harvest (3,987) increased slightly from the twenty year (1976-95) average catch of 3,411 chinook. In 1983, the largest reported chinook catch occurred, 12,833 salmon. During the past ten years, purse seine fishers caught 88.3% of the chinook harvest, while drift gillnet and set gillnet fishers accounted for 2.3% and 9.3%, respectively (Appendix C.10). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total chinook harvest.

Sockeye

The 1996 South Peninsula post June sockeye harvest of 392,038 salmon, was the lowest sockeye harvest since 1985, and well below the 1986-95 average harvest of 726,281 sockeye (Appendix C.11). The 1986 through 1995, South Peninsula post June average sockeye salmon harvest (726,281) increased substantially from the twenty year (1976-95) average catch of 495,555 sockeye (Appendix C.9). In 1990, the largest reported sockeye catch occurred, 1,039,265 salmon. Since 1990, the trend of increasing sockeye harvests may have leveled off due to closures during July 1-19 in most of the South Peninsula. During the past ten years, purse seine fishers caught 48.9% of the sockeye harvest, while drift gillnet and set gillnet fishers accounted for 6.4% and 44.7%, respectively (Appendix C.12). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total sockeye harvest

Coho

In the South Peninsula, coho are the only species where long term post June harvest records are available (Appendix C.9). Historically, South Peninsula coho catches have demonstrated long periods of varying abundance (Appendix A.12). From 1923 through 1946, coho catches were at a relatively high level; from 1947 through 1958 the average was about a third of the 1923-46 harvest

level; from 1959-77 the harvest was very low, with only 67 coho salmon caught in 1975, (from 1970 through 1977 only limited fishing periods occurred due to weak pink salmon runs). After 1977, coho harvests increased substantially averaging 243,870 from 1976-95 and 315,960 from 1986-95. In 1988, the largest reported coho catch occurred, 505,278 salmon.

The 1996 South Peninsula post June coho harvest of 267,494 salmon was below the most recent ten year (1986-95) average harvest of 315,960 coho (Appendix C.13). The 1986-95 trend toward higher coho catches appears to have reversed with fisheries closures during July 1-19 in most of the South Peninsula. Since 1993, coho harvests seems to have stabilized at about 250,000 salmon. During the past ten years, purse seine fishers caught 72.2% of the coho harvest, while drift gillnet and set gillnet fishers accounted for 14.0% and 13.7%, respectively coho (Appendix C.14). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total coho harvest while drift gillnet fishers are harvesting fewer coho salmon.

Pink

The 1996 post June South Peninsula pink harvest of 1,810,624 salmon was the lowest since 1987, and only 25% of the most recent ten year (1986-95) average pink harvest. The 1986 through 1995, South Peninsula post June pink salmon average harvest was 7,294,254 salmon and has increased substantially from the twenty year (1976-95) average catch of 6,116,777 pink salmon (Appendix C.15). During the past ten years , purse seine fishers caught 95.3% of the pink harvest, while drift gillnet and set gillnet fishers accounted for 0.7% and 4.0%, respectively. Except for 1996, pink salmon harvest trends have not changed in recent years. During 1996, poor pink salmon escapement in the Southeastern District and very low prices, following the 1995 record pink salmon harvest, led to a drastic reduction of pink harvests. Future pink salmon harvests may continue to be limited by low prices and lack of markets, rather than the availability of fish..

Chum

The 1996 post June chum harvest of 411,581 salmon was the lowest since 1979 and only 41% of the most recent ten year (1986-95) average harvest of 991,812 chum salmon. The 1986 through 1995, South Peninsula post June chum average harvest (991,812) has increased from the twenty year (1976-95) average catch of 866,374 chum salmon (Appendix C.16). In 1994, the largest reported chum catch of 1,593,590 salmon occurred, and can be attributed to an exceptionally large return of late run chum salmon in the Volcano Bay Section of the Southwestern District. During the past ten years, purse seine fishers caught 87.9% of the chum harvest, while drift gillnet and set gillnet fishers accounted for 3.5% and 8.6%, respectively. Recent harvest trends, excluding 1996, indicate that purse seine fishers are harvesting chum salmon slightly above the ten year average (91.5% in 1994 and 88.6% in 1995).

When comparing harvest figures among reporting areas (Southeastern, South Central, Southwestern, and Unimak Districts) most post June salmon were harvested in the Southeastern District, followed by the Southwestern District, the South Central District and the Unimak District (Appendix A.20).

Escapement. During the 1960's and early 1970's, Alaska salmon production was at very low levels and did not begin to rebuild until the mid 1970's. From 1962 through 1976, the South Peninsula

total indexed salmon escapement averaged 1,280,100 fish composed of 27,813 sockeye, 957,887 pink, and 294,400 chum salmon (Appendix F.4). From 1977 through 1995, the South Peninsula total indexed salmon escapement averaged 3,179,463 salmon composed of 73,158 sockeye, 2,605,288 pink, and 501,017 chum salmon. No chinook salmon spawn in South Peninsula waters and coho salmon escapement data, for most of the area, are not collected annually.

Sockeye

The 1996 South Peninsula total indexed sockeye escapement of 72,950 salmon was the lowest since 1987 was at the lower end of the escapement goal range (Appendix F.9). From 1977 through 1995, the sockeye indexed escapement has ranged from 39,200 in 1982 to 129,110 in 1995 and averaged 73,158 salmon. During the last ten years (1986-95), sockeye indexed escapement averaged 91,231 salmon.

Orzinski Lake, Thin Point Lake, and Middle Lagoon are the primary sockeye producers in the South Peninsula. The Southwestern District sockeye systems , including Thin Point Lake and Middle Lagoon, generally produced below average runs , while Orzinski Lake in the Southeastern District produced a strong run and had an escapement of 30,000 sockeye salmon (Appendices F.5-F.8).

Coho

Due to limited survey data, no 1996 coho indexed escapement was calculated for the South Peninsula. In 1990, the most complete coho survey to date occurred and the indexed coho escapement was 87,500 salmon (Appendix F.4). In 1994-1996, Thin Point Lake was the only major area surveyed for coho salmon, the largest count (which may not have been the peak count), was about 13,000 salmon during both 1994 and 1995, and 11,000 coho in 1996. The escapement was well above the in-river escapement goal of 4,500 to 7,500 coho salmon.

Pink

The 1996 South Peninsula total indexed pink escapement of 3,647,550 salmon was the third largest escapement on record and at the upper end of the even year escapement goal range (Appendix F.10). From 1977 through 1995, the pink indexed escapement has ranged from 851,200 in 1983 to 6,406,300 in 1995 and averaged 2,605,288 salmon. During the last ten years, pink indexed escapement averaged 2,781,547 salmon.

In 1996, the South Peninsula pink salmon run was weaker than projected, and the Southeastern District was closed during August 8-31 to achieve salmon escapement goals. Salmon escapements were also enhanced by reduced fishing effort due to very low prices paid for pink salmon.

Chum

The 1996 South Peninsula total indexed chum escapement of 610,300 salmon was the fourth largest escapement since 1977 and at the upper end of the escapement goal range (Appendix F.11). From 1977 through 1995, the chum indexed escapement has ranged from 310,500 in 1989 to 774,900 in 1977 and averaged 501,017 salmon. During the last ten years chum indexed escapement averaged 495,253 salmon.

In 1996, chum escapements generally met escapement objectives. Escapements were good in the Stepovak Flats Section and excellent at Canoe Bay, Volcano Bay, Belkofski Bay, and Cold Bay. Salmon escapements were also enhanced by reduced fishing effort due to very low prices paid for chum salmon.

Southeastern District Mainland Fishery

Introduction

Southeastern District. The Southeastern District is divided into two fisheries: 1) Southeastern District Mainland fishery (SEDM) and 2) Shumagin Islands Section fishery.

The SEDM fishery of Area "M" is located on the south side of the Alaska Peninsula (Appendices A.2 and A.3). Included in this fishery are the Beaver Bay, Balboa Bay, Southwest Stepovak, Northwest Stepovak, East Stepovak, and Stepovak Flats Sections (Appendix D.1). Under the present BOF management plan adopted during the January 1996 meeting, beginning July 1, the Northwest Stepovak Section will be managed entirely on local stocks, and before July 1 on the Chignik sockeye salmon allocation (Appendix D.2). The Stepovak Flats Section will continue to be managed on local stocks the entire season, and the remainder of the area is managed, through July 25, on an allocation based on the strength of the Chignik River sockeye runs within the Chignik Management Area (CMA). After July 25, the entire SEDM area is managed on local stocks (Campbell 1996).

During the last twenty years (1976-95), set gillnet fishers have taken about 89% of the total SEDM sockeye harvest through July 25, and purse seine fishers have harvested the remainder about 11% (Appendix D.3). Since 1978, set gillnet gear is the only legal gear type allowed through July 10 and after July 10 fishing periods are established by emergency order.

Fishing effort during June and most of July primarily targets Chignik bound sockeye salmon. The Orzinski Lake sockeye run in the Northwest Stepovak Section and July chum salmon runs in the Stepovak Flats Section are targeted to a lesser degree. The peak of the local pink and chum salmon runs occur during late July through mid August. The fishery is usually closed during mid to late August to achieve desired pink and chum escapement goals and is reopened in September to harvest coho salmon. Sockeye salmon are known to migrate through the area during the entire season (Campbell 1995).

Prior to 1974, the SEDM fishery was regulated by set weekly fishing periods which were generally five days per week in duration (Appendix D.2). From 1974 through 1977, the fishery was open on a day per day basis with Chignik Lagoon. During some years, such as 1977, only short fishing periods were required to harvest large runs in Chignik Lagoon while daily harvest rates and the total harvest in the SEDM fishery were low.

In 1978, the BOF restricted fishing periods to three days per week for set gillnet gear only through July 10. In 1978, harvest rates through July 25 were low despite strong Chignik runs, resulting in a

SEDM catch of only 31,197 sockeye, of which 21,952 sockeye were considered Chignik destined salmon (Appendices D.4). From 1973 through 1978, an average of about 20 set gillnet fishers participated in this fishery during the entire season (Appendix D.5).

During the winter of 1978-79, the BOF increased fishing time from three days to five days per week but specified that not more than 60,000 estimated Chignik sockeye salmon could be harvested through July 10. The BOF stipulated that the fishery could be closed if it became apparent that the Chignik escapement requirements were not assured. The BOF also stated that if the CMA catch exceeded 1,000,000 sockeye before July 10, the SEDM fishery could continue beyond the 60,000 sockeye salmon ceiling. This management plan remained in effect until 1985.

From 1979 through 1982, SEDM fishers harvested an average of 76,000 sockeye salmon annually, with about 61,000 sockeye (5.1% of the total Chignik bound sockeye harvest) caught through July 25 (Appendices D.6- D.8). This harvest was achieved even though numerous fishery closures were needed because of weak Chignik sockeye escapements. Set gillnet permit activity increased from 23 permits in 1978 to 41 permits in 1982 (Appendix D.5).

In 1983 an estimated 227,392 Chignik bound sockeye salmon were harvested in the SEDM fishery through July 25 (Appendix D.6). Most of the sockeye (76%) were harvested after July 10.

In 1984, set gillnet effort increased to 57 permits for the entire season, of which five were operated by purse seine permit holders. Due to an exceptionally large early Chignik run, a large number of fish available in the SEDM area, and high gear levels, only 6 days were required to harvest an estimated 60,000 Chignik bound sockeye salmon. The SEDM fishery was closed for only 3 days before the Chignik sockeye harvest reached 1,000,000 salmon, and the SEDM fishery was reopened on June 14. In 1984, the late Chignik sockeye salmon run was not as strong as predicted. The Chignik second run escapement goal was reached only after considerable curtailment of the SEDM, Chignik, and Cape Igvak of the Kodiak Management Area (KMA) fisheries during mid-July. The total 1984 SEDM harvest of Chignik destined sockeye salmon through July 25 was 423,068 fish (Appendices D.6).

For the 1985 season, the BOF developed a management plan based on the Cape Igvak Salmon Management Plan instead of using a set fishing schedule. The BOF plan directed the department to manage the fishery so that the number of sockeye salmon taken in the SEDM fishery (exclusive of the Northwest Stepovak Section) was as near as possible to 6.2% of the total Chignik bound sockeye salmon harvest through July 25. The department re-evaluated the data used to calculate the allocation and determined that 6.0% was the correct figure. Therefore, the BOF changed the allocation to 6.0% beginning with the 1988 season. However, before the SEDM fishery could open the following criteria had to be met:

1) a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye was expected to be more than 600,000, and

2) the Department determined that the runs were as strong as expected.

In years when a harvestable surplus for the first and second runs of Chignik River system sockeye salmon was expected to be less than 600,000, no commercial salmon fishery targeting Chignik sockeye salmon would be allowed in the SEDM fishery until a harvest of 300,000 sockeye salmon was achieved in the Chignik Area. After July 9, fishing in the SEDM might occur provided at least 300,000 sockeye salmon had been harvested in the Chignik Area, escapement goals were being met, and the Chignik Area harvest was anticipated to total at least 600,000. In addition, the SEDM fishery harvest needed to be at or near 6.0% of the total Chignik bound sockeye salmon harvest.

From 1985 through 1991, the harvest of Chignik bound sockeye in the SEDM, through July 25, averaged 88,776 salmon and 5.5% of the total Chignik bound sockeye salmon harvest (Appendix D.6).

The BOF revised the SEDM management plan for the 1992 season. The revised plan was in effect from 1992 through 1995, and included two significant changes as follows:

1) the area in the Northwest Stepovak Section to be managed on a local stock basis was reduced to include only the waters of Orzinski Bay; the Stepovak Flats Section would continue to be managed on the basis of the Stepovak River chum salmon stock (Appendix D.1).

2) the allowable harvest of sockeye salmon in the SEDM fishery (exclusive of Orzinski Bay) through July 25, was increased from 6.0% to 7.0% of the total Chignik bound sockeye salmon catch.

From 1992 through 1995, the harvest of Chignik bound sockeye in the SEDM, through July 25, averaged 113,258 salmon and 6.9% of the total Chignik bound sockeye salmon harvest.

Current Management Plan

During the January 1996 meeting the BOF made the following changes to the SEDM salmon management plan:

1) the area to be managed for local Orzinski Lake sockeye salmon increased from only Orzinski Bay to the entire Northwest Stepovak Section (Appendix D.1). Prior to July 1, the entire Northwest Stepovak Section will be managed on an allocation based on the strength of the Chignik sockeye salmon runs as described in 5 AAC 09.360(a)(1) and (b)-(h). Beginning July 1, the Northwest Stepovak Section will be managed entirely on local stocks. The Stepovak Flats Section will continue to be managed on the basis of the Stepovak River chum salmon stock.

2) the percentage of sockeye salmon allocated to the SEDM fishery was decreased by the BOF from 7% to 6% of the total Chignik bound sockeye harvest through July 25. This BOF action was taken to maintain traditional harvest levels of Chignik bound sockeye in the SEDM fishery and to compensate for the increased area managed for local Orzinski Lake sockeye salmon.

3) the BOF established a closed waters area encompassing Kupreanof Point (55°33.98' N. lat., 159°35.88' W. long.), as described in 5 AAC 09.350(38), from July 6 through August 31.

The total Chignik sockeye salmon harvest is 100% of those sockeye caught within the CMA, 80% of those sockeye caught in the Cape Igvak Section of the KMA through July 25, and 80% of those sockeye caught in the SEDM fishery through July 25, excluding 100% of those sockeye caught within the Northwest Stepovak Section from July 1 through July 25.

Management attempts to reach the 6% sockeye salmon allocation on July 10, and again on July 25, to achieve an equitable allocation of harvest between set gillnet and purse seine gear.

There are two distinct sockeye salmon runs into the Chignik River system; the Black Lake run and the Chignik Lake run. Based on previous tagging studies, the two runs overlap in run timing in the SEDM and Cape Igvak fisheries from about June 26 through July 9. During the overlap period, the strength of the second run (Chignik Lake) cannot be evaluated. In order to prevent overharvest of the second run, the Cape Igvak and SEDM fisheries (except the Northwest Stepovak Section beginning July 1) are usually closed during this period. However, fishing may be allowed to continue in Chignik to harvest excess early run sockeye salmon, even though second run fish are present .

During the last twenty years (1976-95), the SEDM harvest of Chignik bound sockeye salmon through July 25 averaged 106,264 fish (6.8% of the total Chignik bound harvest; Appendices D.4 and D.6). The 1996 SEDM harvest of Chignik bound sockeye through July 25 was 127,201 sockeye (5.9% of the total Chignik bound harvest). During the past ten years (1986-95), set gillnet fishers averaged about 90% of the SEDM sockeye harvest through July 25, with purse seine fishers taking the remaining 10% (Appendix D.9).

Effort Levels

Since 1978, a substantial increase in set gillnet effort has occurred in the SEDM fishery. The number of set gillnet permits fished for the entire season increased from 23 permits in 1978 to a high of 68 in 1996 (Appendix D.5). From 1986 through 1995, set gillnet effort for the entire season averaged 57 permits, and 1,095 landings. Previously, many fishers participated in both set gillnet and purse seine fishing, and received a limited entry permit for each gear type. During the 1970's and 1980's, many of the dual permit holders sold or transferred their set gillnet permits and retained their purse seine permits. This action increased effort in the SEDM fishery, since many permits which were previously used part-time were now fished full-time.

The number of SEDM set gillnet landings, for the entire season, have also increased from 235 in 1978 to a high of 2,171 in 1984, with 1,711 landings made in 1996 (Appendix D.5). Annual set gillnet landings in the SEDM averaged 802 from 1976 through 1985, and 1,095 from 1986 through 1995. The increased deliveries also reflects efforts to meet industry's improved quality standards. From 1991 through 1995, set gillnet effort and landings for the entire season have remained relatively stable, averaging 62 permits and 1,357 landings. During the last ten years (1986-95), the

annual SEDM set gillnet sockeye harvest has averaged 246,281 salmon (about 81% of the total sockeye catch; Appendix D.10).

Purse seine effort in the SEDM fishery, excluding 1996, has also increased, from 45 permits in 1978 to a high of 75 permits in 1989, however only 29 purse seine permits were fished in the SEDM fishery during the entire 1996 season. For the last ten years, annual SEDM purse seine effort has averaged 60 permits, and 247 landings, while the annual purse seine sockeye harvest has averaged 58,491 salmon (about 19% of the total sockeye catch; Appendix D.10). Much of the reduced purse seine effort during the 1996 season can be attributed to low prices being paid for pink and chum salmon, and a poor pink salmon run in the Southeastern District. The entire Southeastern District was closed to commercial salmon fishing from August 8-31 to achieve salmon escapement goals.

Local Stocks Fisheries

Northwest Stepovak Section. Commercial salmon fishing in the Northwest Stepovak Section is managed on the basis of the Orzinski Lake sockeye stock from July 1 through July 25, and after July 25 on local stocks (sockeye, pink, chum, and coho salmon).

Beginning July 1, all of the sockeye salmon caught within the Northwest Stepovak Section are considered to be of Orzinski Lake stock. Of those sockeye salmon caught in the remainder of the SEDM fishery 80% are considered to be from the Chignik River system runs.

Orzinski Lake sockeye salmon escapements were assessed using a weir from 1935 through 1941, and from 1990 through 1996 (Appendix D.11). Based on historical aerial surveys and weir counts, sockeye escapement requirements for Orzinski Lake by time periods were developed and implemented beginning with the 1991 season. The sockeye escapement goal for Orzinski Lake is 20,000 adult salmon. From 1990 through 1996, the sockeye escapement has averaged about 29,000 salmon, and ranged from a high of 40,000 in 1991 to a low of 15,000 in 1990. Since 1990, July 8 is the average date when 50% of the total sockeye escapement requirement of 20,000 salmon has been achieved. In 1996, the Orzinski Lake weir was operated from June 7 through July 28 and 23,744 sockeye, 46 pink and 2 chum salmon were counted through the weir (Appendix F.5). Based on aerial surveys conducted after the weir was removed, 6,256 sockeye were added to the Orzinski Lake weir count for a total sockeye escapement of 30,000 salmon (Appendix F.6). In 1996, the total Orzinski Lake sockeye run was estimated at 164,602 salmon (catch plus escapement).

The 1996 Northwest Stepovak Section total sockeye harvest was 144,882 salmon, of which 132,032 sockeye were caught after June 30 and considered 100% local fish (Appendix D.12).

Stepovak Flats Section. Commercial salmon fishing in the Stepovak Flats Section is managed on the basis of chum salmon returning to Stepovak Flats streams. Through July 11, this section is usually opened on a day per day basis with the remainder of the SEDM fishery. Eighty percent of the sockeye harvested in this section are assigned as Chignik bound fish, and are included in the 6.0% allocation criteria stated in the SEDM salmon management plan. The entire section is closed

to salmon fishing by regulation beginning July 29 to protect schooling chum salmon which are needed to achieve escapement requirements.

1996 Season Summary

The 1996 forecast for the total harvest of Chignik bound sockeye salmon was 1,000,000 salmon for the first (Black Lake) run and 1,350,000 salmon for the second (Chignik Lake) run (Owen and Sarafin 1996). The forecast indicated that a fishery should occur in the SEDM targeting Chignik bound sockeye salmon since a harvest of at least 600,000 sockeye was expected in the Chignik Management Area which is one of the conditions of the management plan.

In 1996, the first fishing period in the SEDM occurred on June 11 and the last delivery was made on October 17 (Appendix D.13). Through July 25, a total of 284,076 sockeye salmon were harvested in the entire SEDM, about 90% by set gillnet permit holders and the remaining 10% by purse seine fishers. During 1996, the estimated Chignik component of the SEDM harvest was 127,201 sockeye, 5.9% of the total Chignik bound sockeye salmon harvest through July 25. The SEDM fishery, excluding the Northwest Stepovak Section beginning July 1, estimated harvest of Chignik bound sockeye for the entire season was 183,321 salmon (Appendix D.7).

From 1992 through 1995, 7% of the total Chignik bound sockeye salmon harvest, through July 25, was allocated to the SEDM fishery. During 1992-95, the harvest of Chignik bound sockeye through July 25, in the SEDM averaged 6.9%, and ranged from 7.15% in 1992 to 6.66% in 1993. The present management plan, revised by the BOF in 1996, provides for the harvest of 6.0% of the total Chignik sockeye salmon catch, through July 25, and in 1996 the harvest was 5.9%. During the past five years, the allowable harvest percentage has been achieved, and the Orzinski Lake sockeye salmon escapement goal has been attained.

The 1996 SEDM fall fishery was opened on September 1 and the last landing occurred on October 17. Set gillnet fishers were the only gear group to participate in the SEDM fall fishery. Due to light effort in late September, the commercial fishing season was extended through October 31 using a Monday through Friday fishing schedule. During the 1996 SEDM fall fishery 34,360 salmon were harvested composed of 4 chinook, 22,570 sockeye, 9,298 coho, 105 pink, and 2,383 chum salmon (Appendix D.13).

The 1996 SEDM annual harvest was 739,489 salmon composed of 590 chinook, 361,183 sockeye, 22,019 coho, 273,154 pink, and 82,543 chum salmon. Purse seine gear caught 25.9% (191,749 fish) of the total salmon harvest, while set gillnet gear accounted for the remaining 74.1% (547,740 fish). Purse seine gear harvested 52.4% of the chinook (309 fish), 6.6% of the sockeye (23,873 fish), 20.7% of the coho (4,558 fish), 49.5% of the pink (135,274 fish), and 33.6% of the chum salmon (27,735 fish; Appendix D.14). Set gillnet gear harvested 47.6% of the chinook (281 fish), 93.4% of the sockeye (337,183 fish), 79.3% of the coho (17,461 fish), 50.5% of the pink (137,880 fish), and 66.4% of the chum salmon (54,808 fish; Appendix D.15).

Shumagin Islands 1996 Season Summary

During July 1-19, Zachary Bay is the only area in the Shumagin Islands open to commercial salmon fishing and effort was minimal (Appendix B.16).

During July and August pink salmon normally dominated the harvest, however in 1996 the price for pink, and chum salmon was very low and fishing effort was light except in areas where sockeye or coho salmon could also be caught. The Southeastern District pink salmon run was much weaker than projected and the entire district was closed from August 8 through August 31 to achieve salmon escapement requirements.

The September (fall) fishery in the Shumagin Islands Section opened on September 1, and the last delivery was made on September 20. During the initial fishing period, which was of 59 hours in duration, 10 permit holders made 38 landings for a total harvest of 4,211 salmon composed of 1 chinook, 1,862 sockeye, 1,917 coho, 29 pink, and 402 chum. The coho catch per unit of effort (CPUE) was below average and the initial fishing period was not extended. The fishery was reopened on September 6 and the second fishing period was of 35 hours in duration. The coho CPUE from the second fishing period was also below average and the fishery closed as scheduled. The fishery was reopened on September 10, and due to light effort the commercial salmon fishing season was extended through October 31 with set weekly (Mondays through Fridays) fishing periods. In 1996, the last landing in the Shumagin Islands fishery occurred on September 20. The total harvest for the 1996 Shumagin Islands fall fishery (September 1-20) was 7,653 salmon composed of 1 chinook, 3,468 sockeye, 3,626 coho, 31 pink, and 527 chum salmon (Appendix B.16).

The total 1996 Shumagin Islands Section post June (July 1-September 20) total salmon harvest of 1,135,932 fish was the lowest since 1977, and was composed of 1,578 chinook, 93,161 sockeye, 203,004 coho, 703,409 pink, and 134,780 chum salmon (Appendix C.17). The 1996 catches for all species, except coho, were below both the 10-year (1986-95) and 20-year (1976-95) year average harvests.

Since the mid 1970's the effort levels and the number of landings have increased for all gear types in the Shumagin Islands Section. From 1986 through 1995, the effort levels in the post June fishery have averaged 72 permits for purse seine gear and 51 permits for set gillnet gear (Appendices C.18 and C.19). During the 1996 season, 53 purse seine and 50 set gillnet permit holders participated in the Shumagin Islands Section post June fishery. During the past ten years (1986-95), the annual number of landings has averaged 667 for purse seine and 695 for set gillnet permit holders. Purse seine and set gillnet fishers made 392 and 460 landings, respectively, during the 1996 Shumagin Islands Section post June fishery.

Recent trends in the Shumagin Islands Section post June fishery indicate set gillnet gear are catching an increasing proportion of the total sockeye salmon harvest. This increasing harvest proportion is illustrated by comparing the most recent 10 year (36.0%) and 20 year (30.0%) averages of percent of sockeye harvest by set gillnet gear type (Appendices C.17-C.19). Some of the increased sockeye salmon catch by gillnet fishers is the result of the Shumagin Islands being closed to purse seine gear during part of July in 1989 through 1994 due to the presence of immature

salmon. During the last ten years, catch data indicates an increasing percent of coho being caught by set gillnet fishers from 1.4% (1976-85) to 7.4% (1986-95). From 1986 through 1995, purse seine fishers caught an average of 92.6% of the post June coho salmon harvest, while harvesting 93.4% in 1996.

Southeastern District 1996 Season Summary

The post June harvests of all species in the Southeastern District have increased since 1970 and averaged 3,377,954 salmon from 1976 through 1995 and 4,610,835 salmon from 1986 through 1995 (Appendix C.20). Most of the increase in harvest was a result of strong pink returns since 1978, including a record harvest of almost 7.5 million pink salmon in 1995. However, the 1996 Southeastern District pink salmon run was much weaker than projected and the district was closed from August 8-31 to achieve salmon escapement goals. The 1996 Southeastern District post June salmon harvest of 1,762,861 fish was the lowest since 1987, and was composed of 2,053 chinook, 346,585 sockeye, 225,017 coho, 976,358 pink, and 212,848 chum salmon.

The 1996 Southeastern District indexed total escapement was 1,238,850 salmon, composed of 34,700 sockeye, 1,070,550 pink, and 133,600 chum salmon (Appendix F.12; coho data are not available). The estimated chum salmon escapement may be low due to a lack of late season aerial surveys. Chum salmon escapements were good in the Stepovak Flats Section. Pink escapements were good in most salmon systems throughout the district, however the entire district was closed from August 8-31 to achieve salmon escapement goals. Sockeye escapements were generally good; Orzinski Lake exceeded escapement goals, however, Acheredin Lake sockeye escapement was below desired goals.

South Central District 1996 Season Summary

The 1996 South Central District post June harvest of 629,577 salmon was the lowest since 1990 and was composed of 14 chinook, 19,945 sockeye, 1,620 coho, 537,391 pink, and 70,607 chum salmon (Appendix C.23). The 1996 South Central District indexed escapement was 1,777,950 salmon, composed of 5,750 sockeye, 1,598,400 pink, and 173,800 chum salmon (Appendix F.12). Sockeye, pink, and chum salmon escapements exceeded their upper end escapement goals of 4,000, 840,000, and 200,000 salmon, respectively. No indexed escapement goals have been established for coho salmon in the South Central District.

Southwestern District 1996 Season Summary

The 1996 Southwestern District post June harvest of 483,746 salmon was the lowest since 1987, and was composed of 56 chinook, 24,442 sockeye, 38,237 coho, 294,118 pink, and 126,893 chum salmon (Appendix C.24). The 1996 Southwestern District indexed escapement was 1,286,390 salmon composed of 29,690 sockeye, 954,600 pink, and 302,100 chum salmon (Appendix F.12). Sockeye escapements were below the point escapement goal of 47,000 salmon, however pink and chum salmon escapements exceeded their upper escapement goals of 840,000 and 270,000 fish

respectively. No indexed escapement goals have been established for coho salmon in the Southwestern District.

Unimak District 1996 Season Summary

The 1996 Unimak District post June harvest of 7,677 salmon was the second lowest since 1986, and was composed of 1 chinook, 1,066 sockeye, 2,620 coho, 2,757 pink, and 1,233 chum salmon (Appendix C.25). The 1996 Unimak District indexed escapement was 27,600 salmon composed of 2,810 sockeye, 24,000 pink, and 800 chum salmon (Appendix F.12). Sockeye and pink escapements were below their point escapement goals of 6,000 and 55,000 salmon, respectively, and no indexed escapement goals have been established for coho and chum salmon in the Unimak District.

LITERATURE CITED

ADF&G (Alaska Department of Fish and Game). 1996. 1996-97 Bristol Bay, Alaska Peninsula, Atka-Amlia, and Aleutian Islands Areas Commercial Fishing Regulations, 1996 edition. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Juneau.

Campbell, R.D.. 1996. Southeastern District Mainland (Alaska Peninsula Area) Salmon Management Plan, 1996. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K96-23, Kodiak.

Campbell, R.D.. 1995. The Southeastern District Mainland Salmon Fishery of Area M. Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K95-50, Kodiak.

Campbell, R.D., A.R. Shaul, R.S. Berceli and J.P. Cofske 1997. South Peninsula Annual Salmon Management Report, 1995. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K97-2, Kodiak.

Eggers, D.M., K.A. Rowell, and B.M. Barrett. 1991. Stock Composition of Sockeye and Chum Salmon Catches in Southern Alaska Peninsula Fisheries in June. Department of Fish and Game, Division of Commercial Fisheries, Fishery Research Bulletin 91-01 (revised March 3, 1992), Juneau.

Holmes, P.B, and A.R. Shaul. 1996. Aleutian Islands and Atka-Amlia Islands Management Areas Annual Salmon Management Area Report, 1995. Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K96-45, Kodiak.

Johnson, B.A., and B.M. Barrett. 1988. Estimation of Salmon Escapement Based on Stream Survey Data: a Geometric Approach. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K88-35, Kodiak.

Kron, T. 1994. Stock Status of Western Alaska-Bering Sea Chum Salmon. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Report to the NPFMC, January, 1994, Anchorage.

McCullough, J.M. 1990. Discussion of the Incidental Sockeye Harvest in the Shumagin Islands Section Post June Fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K90-1, Kodiak.

McCullough, J.M., and D. Pengilly. 1994. An Analysis of South Unimak and Shumagin Islands June Fisheries Sockeye Salmon Guideline Harvest Level Time Periods. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K94-45.

LITERATURE CITED (Cont.)

McCullough, J.M., and A.R. Shaul. 1992. The Incidence of Immature Salmon in South Peninsula Purse Seine Fisheries, 1963-91. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K92-17, Kodiak.

McCullough, J.M., A.R. Shaul, R.D. Campbell, and R.S. Berceli 1995. South Peninsula Annual Salmon Management Report, 1994. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K95-46, Kodiak.

McCullough, J.N. 1995. South Alaska Peninsula Post June and Aleutian Islands Management Area Salmon Fisheries and Stock Status. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K95-51, Kodiak.

Murphy, R.L. 1992. Number of Salmon Systems and Distribution of Escapements in the Alaska Peninsula and Aleutian Islands Management Areas, 1986-91. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K92-15, Kodiak.

Murphy, R.L., A.R. Shaul, and R.S. Berceli. 1996. North Alaska Peninsula Commercial Salmon Annual Management Report, 1995. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K96-46, Kodiak.

Nelson, P.A. and R.L. Murphy. 1996. Alaska Peninsula Management Area Salmon Escapement and Catch Sampling Results, 1995. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K96-36, Kodiak.

Ogura, M., and S. Ito. 1994. Change in the Known Ocean Distribution of Japanese Chum Salmon, *Oncorhynchus keta,* in Relation to the Progress of Stock Enhancement. Can. J. Fish. Aquat. Sci., Vol 51: 501-505.

Owen, D.L. and D.R. Sarafin. *In press.* Chignik Management Area Annual Finfish Management Area Report, 1995. Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report, Kodiak.

Shaul, A.R., and R.D. Campbell. 1996. Post June Salmon Management Plan for the South Alaska Peninsula, 1996. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K96-24, Kodiak.

Shaul, A.R., and L.J. Schwarz. 1989. 1988, Alaska Peninsula and Aleutian Islands Areas Salmon and Herring Annual Management Report. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K89-11, Kodiak.

LITERATURE CITED (Cont.)

Shaul, A.R. and R.S. Berceli. *In press.* Annual Summary of the Commercial Salmon Fishery and a Report on Salmon Subsistence and Personnel Use Fisheries for the Alaska Peninsula and Aleutian Islands Management Areas, 1996. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report, Kodiak.

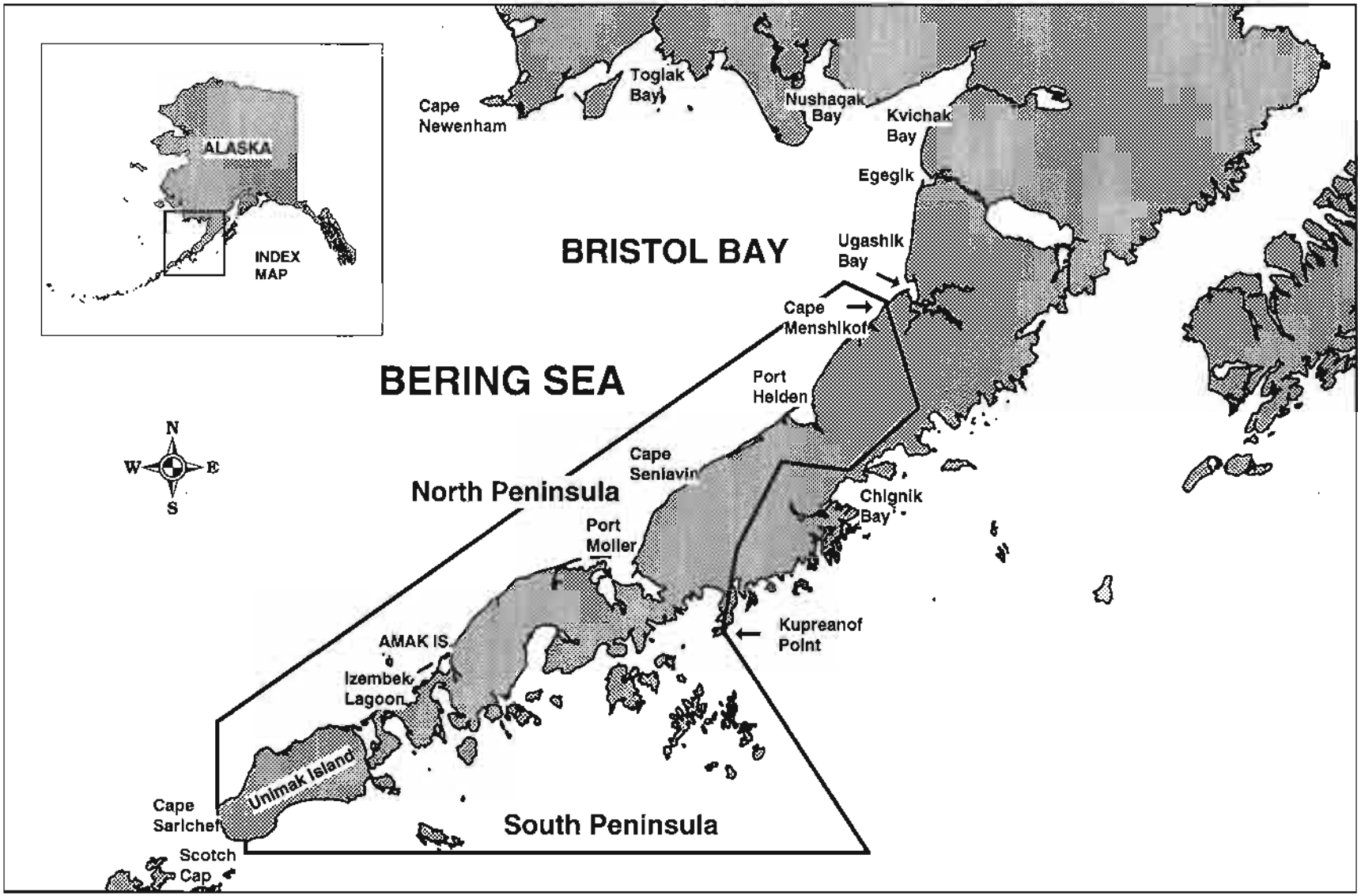
Shaul, A.R., L.J. Schwarz, and A.J. Quimby. 1990. 1989, Alaska Peninsula and Aleutian Islands Areas Salmon and Herring Annual Management Report. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K90-10, Kodiak.

Shaul, A.R., J.N. McCullough, A.J. Quimby, R.S. Berceli, and M.E. Stopha. 1991. 1990, Annual Salmon and Aleutian Islands Areas Salmon and Herring Annual Management Report. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K91-12, Kodiak.

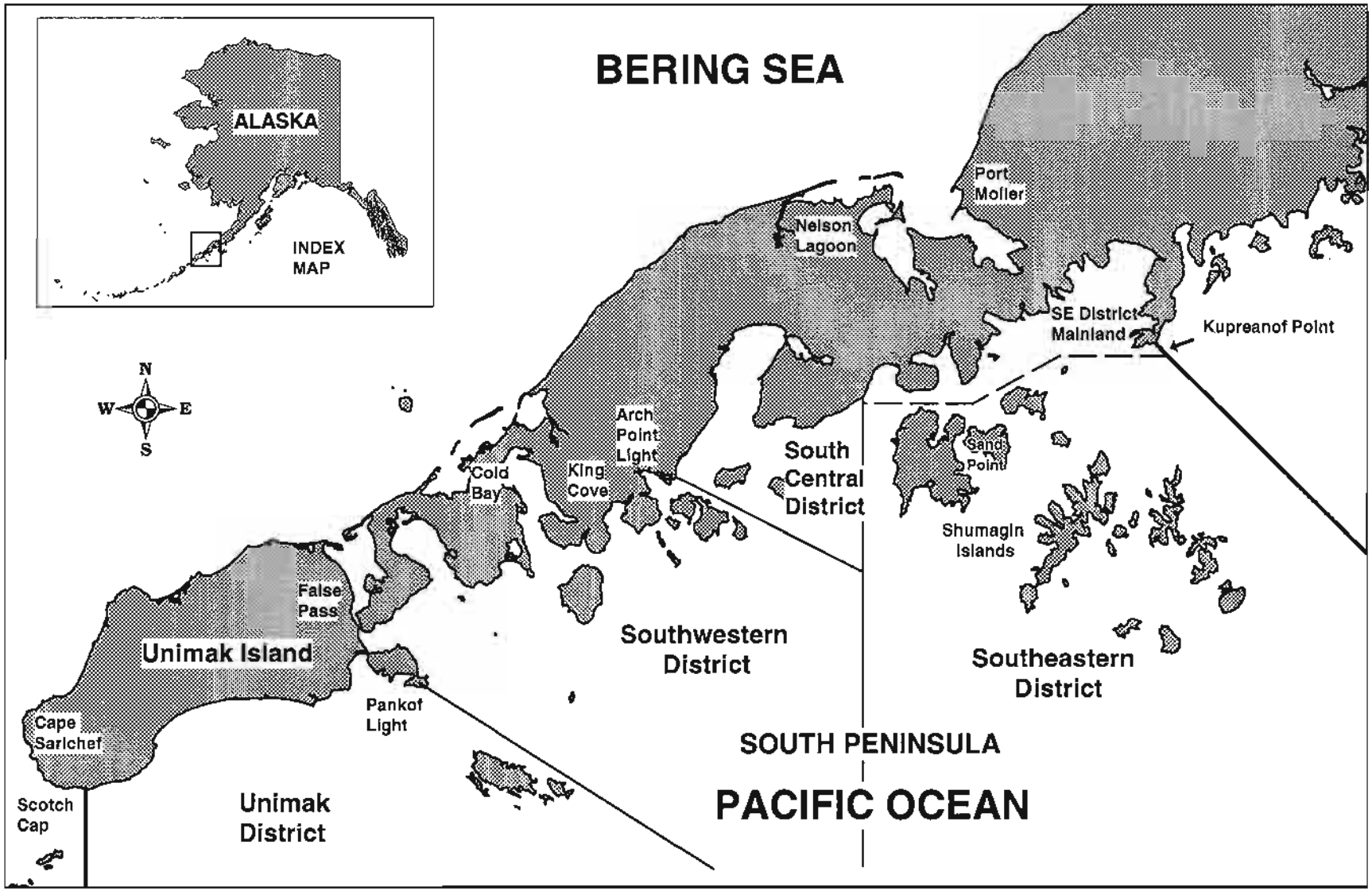
Shaul, A.R., J.N. McCullough, M.L. Wood, R.S. Berceli, and M.E. Stopha. 1992. Annual Salmon and Herring Management Report 1991, Alaska Peninsula and Aleutian Islands Areas. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K92-18, Kodiak.

Shaul, A.R., J.N. McCullough, R.L. Murphy, P.B. Holmes, R.S. Berceli, and M.E. Stopha. 1993. Alaska Peninsula and Aleutian Islands Management Areas Annual Salmon Management Report, 1992. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K93-30.

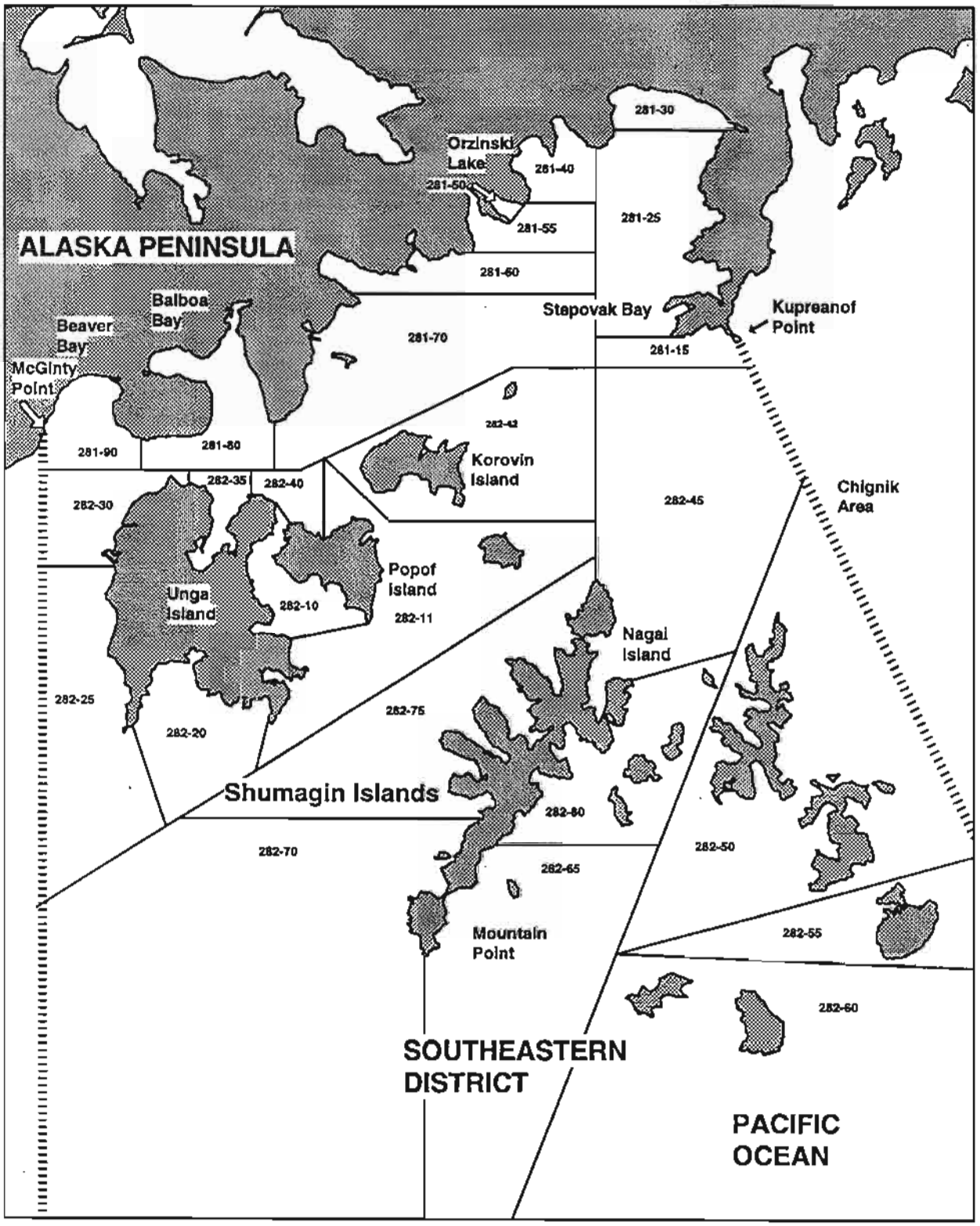
APPENDIX



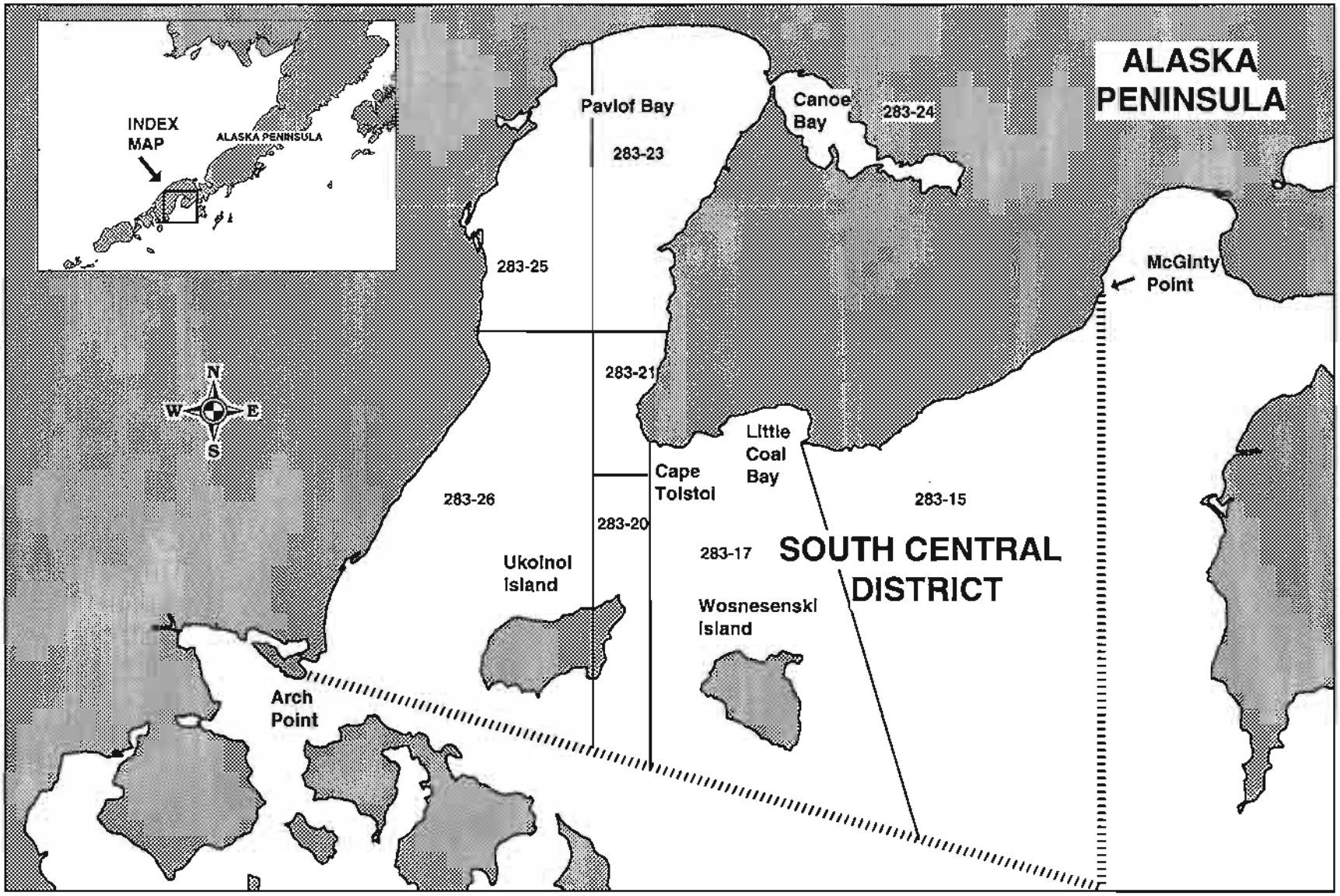
Appendix A.1. Map of the Alaska Peninsula Management Area, with the North and South Peninsula defined.



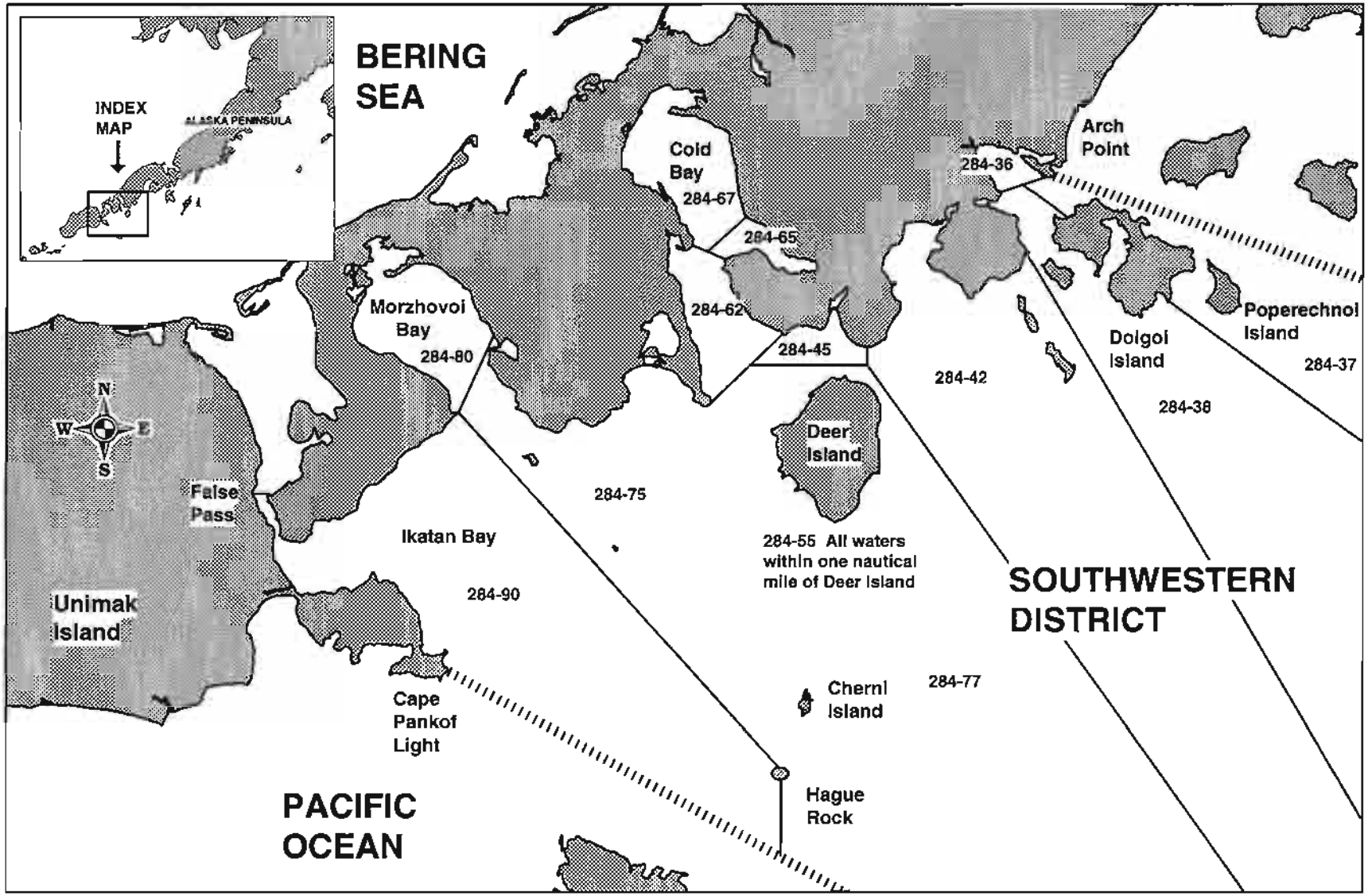
Appendix A.2. Map of the Alaska Peninsula Management Area from Kupreanof Point to Scotch Cap with the salmon fishing districts defined.



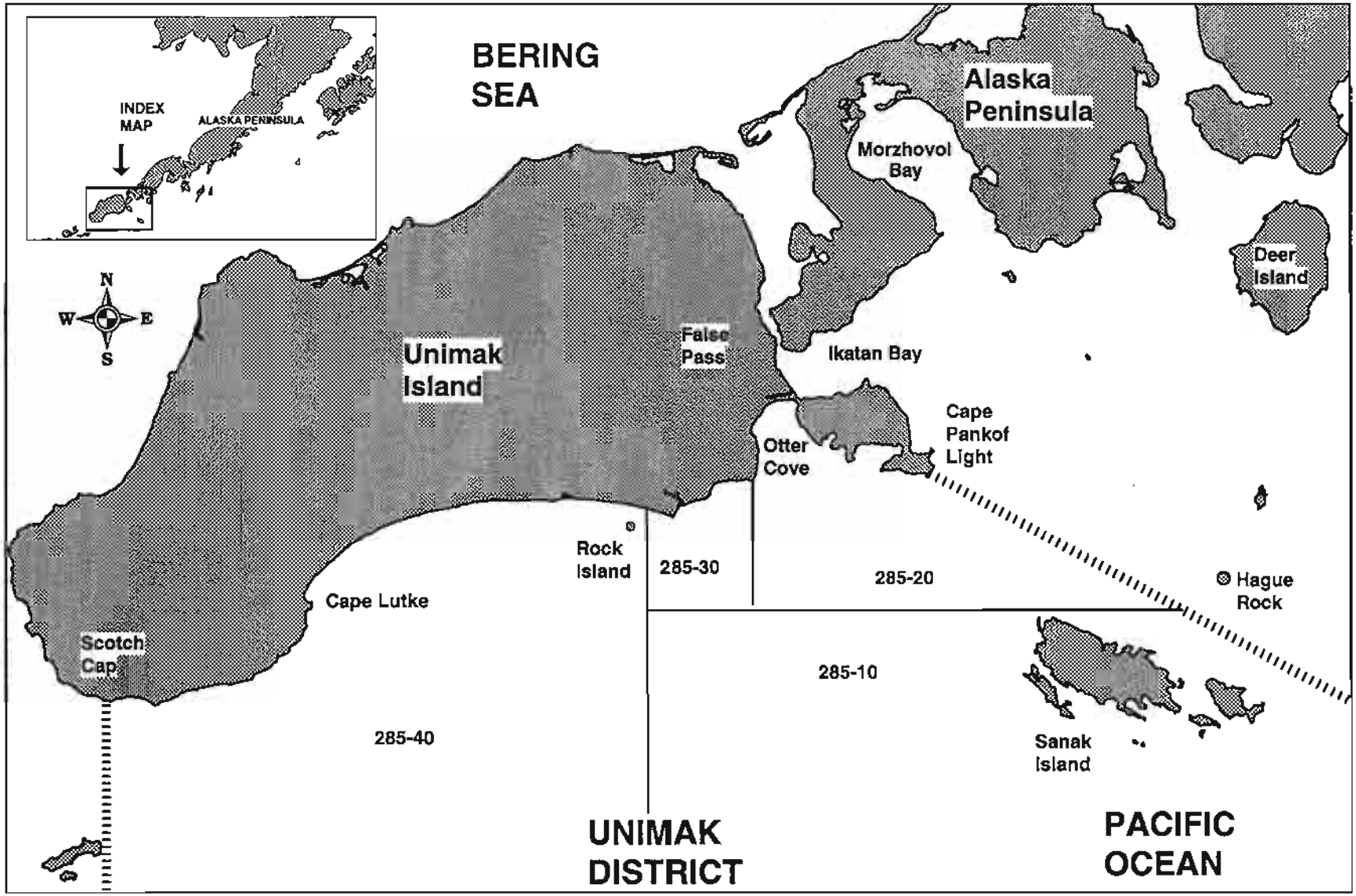
Appendix A.3. Map of the Alaska Peninsula Area from Kupreanof Point to McGinty Point (Southeastern District) with the statistical salmon fishing areas shown.



Appendix A.4. Map of the Alaska Peninsula Area from McGinty Point to Arch Point (South Central District) with the statistical salmon fishing areas shown.



Appendix A.5. Map of the Alaska Peninsula Area from Arch Point to Unimak Island (Southwestern District) with the statistical salmon fishing areas shown.

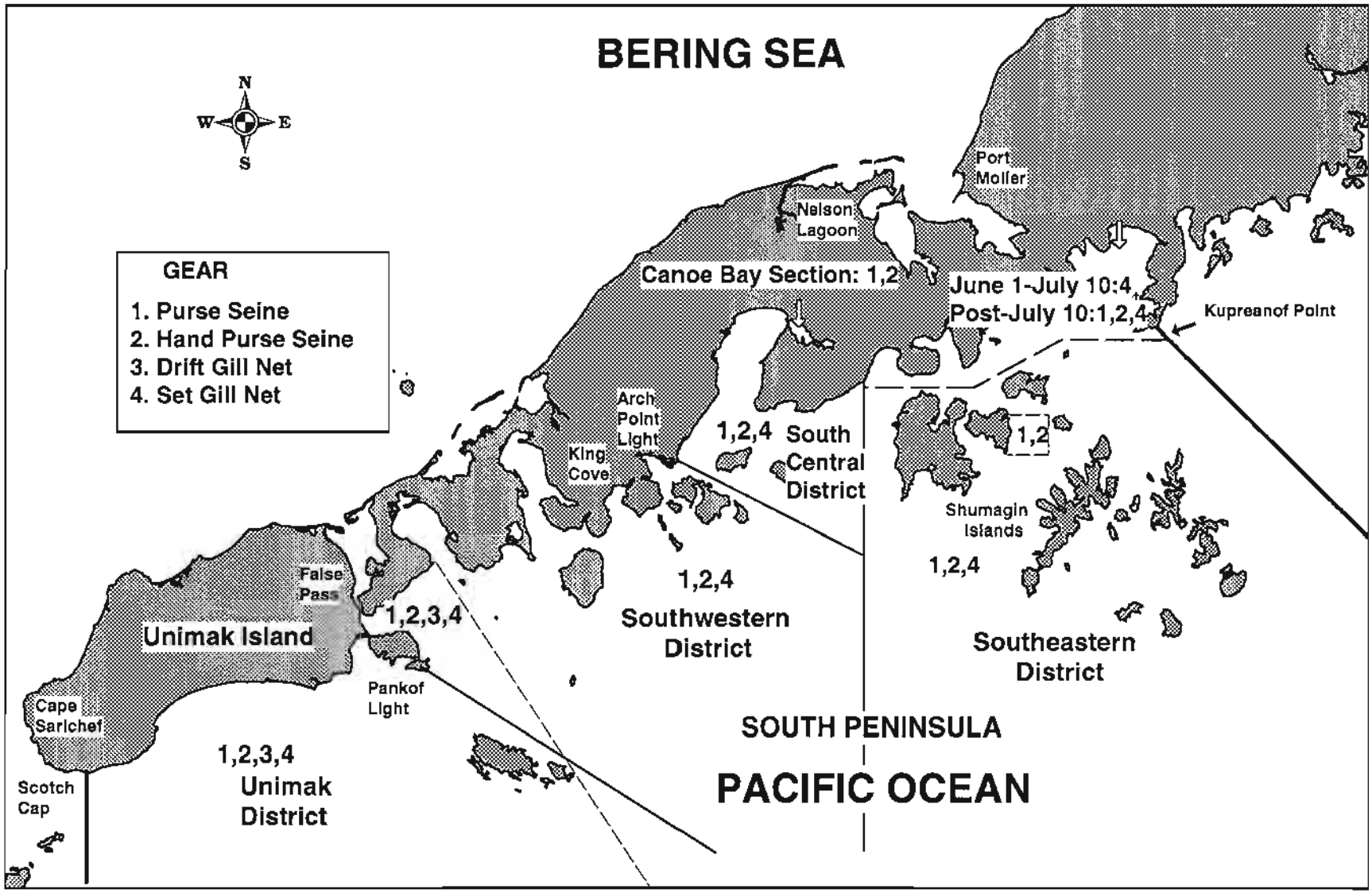


Appendix A.6. Map of the Alaska Peninsula Area from Hague Rock to Unimak Pass (Unimak District) with the statistical salmon fishing areas shown.

Appendix A.7. Number of limited entry permits and fishing effort in the South Peninsula, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet	
Year	Permits Available	Permits Fished	Permit Available	Permits Fished	Permits Available	Permits Fished
1970	125	108	165	157	114	30
1971	125	113	165	122	114	24
1972	125	90	165	151	114	25
1973	125	55	165	121	114	26
1974	125	46	165	46	114	42
1975	125	52	165	81	114	12
1976	125	89	165	108	114	24
1977	125	84	165	101	114	26
1978	125	101	165	120	114	30
1979	125	123	165	137	114	46
1980	125	114	165	129	114	45
1981	125	116	165	135	114	53
1982	125	115	165	138	114	52
1983	125	118	165	147	114	59
1984	125	121	165	147	114	66
1985	125	122	165	150	114	64
1986	125	119	165	156	114	60
1987	125	113	165	145	114	69
1988	125	112	165	148	114	70
1989	125	117	165	147	114	76
1990	126	118	164	154	114	81
1991	126	119	164	157	114	78
1992	125	119	164	142	114	79
1993	125	123	164	144	114	86
1994	125	118	164	145	114	79
1995	125	118	164	151	114	82
1996	124	102	164	147	114	82
1976-95 Average	125	114	165	140	114	61
1986-95 Average	125	118	164	149	114	76

Note: Number of permits include permanent permits and interim use permits. Permits fished include those permit holders making at least one delivery during the year.



Appendix A.8. Map of the Alaska Peninsula Management Area from Kupreanof Point to Scotch Cap with the legal gear types by district shown.

Appendix A.9. South Peninsula salmon harvest, all gear combined, by species, and year, 1908-96.

Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1908			0	69,400	0	0	0	69,400
1909			0	108,400	7,200	0	0	115,600
1910			0	46,300	5,500	0	0	51,800
1911			0	240,800	12,400	25,200	83,000	361,400
1912			0	334,400	27,000	40,400	195,000	596,800
1913			1,800	299,700	0	0	7,000	308,500
1914			600	628,900	0	311,000	221,100	1,161,600
1915			4,800	367,900	16,200	120,100	333,100	842,100
1916			6,800	730,900	34,100	576,100	508,900	1,856,800
1917			6,400	1,486,100	4,600	72,100	415,500	1,984,700
1918			8,700	1,014,100	16,300	2,150,000	1,501,000	4,690,100
1919			9,600	619,100	56,100	80,200	921,400	1,686,400
1920			7,800	1,142,300	47,700	2,109,800	934,000	4,241,600
1921			700	830,700	1,500	47,300	84,600	964,800
1922			6,900	3,376,800	2,200	756,700	349,300	4,491,900
1923			4,100	1,827,200	75,300	143,600	538,900	2,589,100
1924			3,900	1,352,000	127,300	3,931,300	1,330,700	6,745,200
1925			10,700	820,500	127,100	382,100	1,116,800	2,457,200
1926			9,500	3,071,500	193,800	3,719,700	1,179,800	8,174,300
1927			9,600	714,700	125,300	1,455,500	1,299,700	3,604,800
1928[a]			7,700	971,500	96,600	900,900	2,416,300	4,393,000
1929[a]			10,500	935,800	84,500	1,793,500	2,429,000	5,253,300
1930[a]			10,900	935,200	161,100	6,094,800	1,278,100	8,480,100
1931[a]			11,000	1,863,200	128,700	997,900	1,216,000	4,216,800
1932[a]			17,400	2,977,300	112,300	3,604,800	817,300	7,529,100
1933[a]			12,600	1,996,700	190,000	3,109,200	1,173,900	6,482,400
1934[a]			17,600	1,372,400	247,100	6,538,500	1,940,300	10,115,900
1935[a]			13,900	978,400	117,200	5,386,200	2,003,100	8,498,800
1936[a]			14,400	3,662,600	284,600	9,471,000	2,310,900	15,743,500
1937[a]			9,300	1,558,000	73,900	9,302,000	1,506,700	12,449,900
1938[a]			6,400	772,100	220,700	7,169,100	1,476,600	9,644,900
1939[a]			16,500	1,881,700	98,900	6,005,300	1,440,600	9,443,000
1940[a]			9,100	1,040,300	184,200	7,182,800	2,326,300	10,742,700
1941[a]			13,000	1,072,000	183,000	5,347,000	1,542,000	8,157,000
1942[a]			4,800	810,100	123,000	6,762,600	1,321,100	9,021,600
1943[a]			21,700	2,397,700	90,600	4,360,200	924,500	7,794,700
1944[a]			9,900	538,600	238,700	2,653,800	985,600	4,426,600
1945[a]			21,400	813,400	116,100	3,639,600	948,900	5,539,400
1946[a]			6,100	752,300	151,400	1,964,000	1,219,900	4,093,700
1947[a]			3,400	1,137,100	55,800	2,319,600	1,219,200	4,735,100
1948[a]			1,200	285,900	39,200	1,683,700	1,139,600	3,149,600
1949[a]			3,800	637,500	19,500	1,544,000	560,900	2,765,700

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Appendix A.9. (page 2 of 3)

Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1950[a]			4,000	1,745,300	70,700	1,613,700	562,500	3,996,200
1951			1,500	264,200	55,700	2,844,800	683,100	3,849,300
1952			9,200	894,500	39,200	908,500	1,040,800	2,892,200
1953			7,200	1,039,200	47,900	2,743,900	1,464,600	5,302,800
1954			4,200	636,300	49,400	2,033,300	1,413,400	4,136,600
1955			5,400	550,100	44,800	2,529,200	688,200	3,817,700
1956			4,800	641,400	61,900	2,740,700	1,618,700	5,067,500
1957			5,800	341,900	49,900	913,100	1,281,400	2,592,100
1958			800	186,100	70,600	1,385,200	841,000	2,483,700
1959			900	217,500	8,500	915,600	711,700	1,854,200
1960			1,700	379,000	1,800	1,197,500	904,400	2,484,400
1961			900	456,800	10,400	1,727,800	748,600	2,944,500
1962			3,300	420,000	12,500	1,965,500	824,800	3,226,100
1963			1,900	204,400	16,500	2,367,700	461,300	3,051,800
1964			2,000	370,800	13,600	2,740,400	751,000	3,877,800
1965			2,100	915,700	34,200	2,884,100	556,400	4,392,500
1966			1,400	606,200	6,300	302,300	494,400	1,410,600
1967			1,600	294,100	2,900	77,800	245,200	621,600
1968			1,400	699,800	31,100	1,287,100	325,300	2,344,700
1969			1,900	912,800	10,900	1,219,400	389,200	2,534,200
1970	219	4,679	1,806	1,779,525	32,571	1,737,985	993,349	4,545,236
1971	187	4,444	2,174	716,087	16,907	1,445,031	1,365,957	3,546,156
1972	210	3,124	1,332	557,422	8,021	78,221	731,814	1,376,810
1973	153	1,795	415	330,091	6,599	58,051	292,943	688,099
1974	96	853	581	197,153	9,366	100,601	71,826	379,527
1975	143	600	117	243,548	67	60,642	130,750	435,124
1976	217	2,705	2,196	375,027	216	2,366,833	532,503	3,276,775
1977	205	2,168	559	311,722	2,108	1,448,648	243,167	2,006,204
1978	248	3,860	773	579,411	60,774	5,590,145	546,182	6,777,285
1979	294	4,476	2,141	1,149,927	356,867	6,564,914	482,930	8,556,779
1980	284	5,107	4,794	3,613,025	274,181	7,861,470	1,353,112	13,106,582
1981	304	5,617	11,182	2,241,513	162,223	5,033,028	1,768,475	9,216,421
1982	302	6,286	9,845	2,345,981	256,046	6,734,905	2,272,495	11,619,272
1983	325	5,241	26,571	2,556,557	127,657	2,827,622	1,704,072	7,242,479
1984	334	6,378	9,198	2,318,028	310,950	11,589,258	1,654,622	15,882,056
1985	336	5,322	6,642	2,144,416	172,514	4,431,016	1,348,726	8,103,314
1986	335	5,132	5,589	1,223,089	235,854	4,031,487	1,749,651	7,245,670
1987	327	5,256	9,174	1,449,753	225,120	1,208,556	1,376,887	4,269,490
1988	330	6,478	11,075	1,473,651	505,533	7,044,824	1,908,507	10,943,590
1989	341	5,597	7,065	2,660,800	443,843	7,292,658	994,231	11,398,597
1990[b]	354	6,403	16,522	2,386,844	307,218	2,865,856	1,237,826	6,814,266
1991[b]	355	6,439	7,975	2,319,942	317,129	10,616,756	1,588,795	14,850,597
1992[b]	341	6,512	8,026	3,445,914	418,232	9,770,386	1,316,709	14,959,267
1993[b]	353	6,204	14,413	3,689,074	220,148	9,928,107	1,048,257	14,899,999

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Appendix A.9. (page 3 of 3)

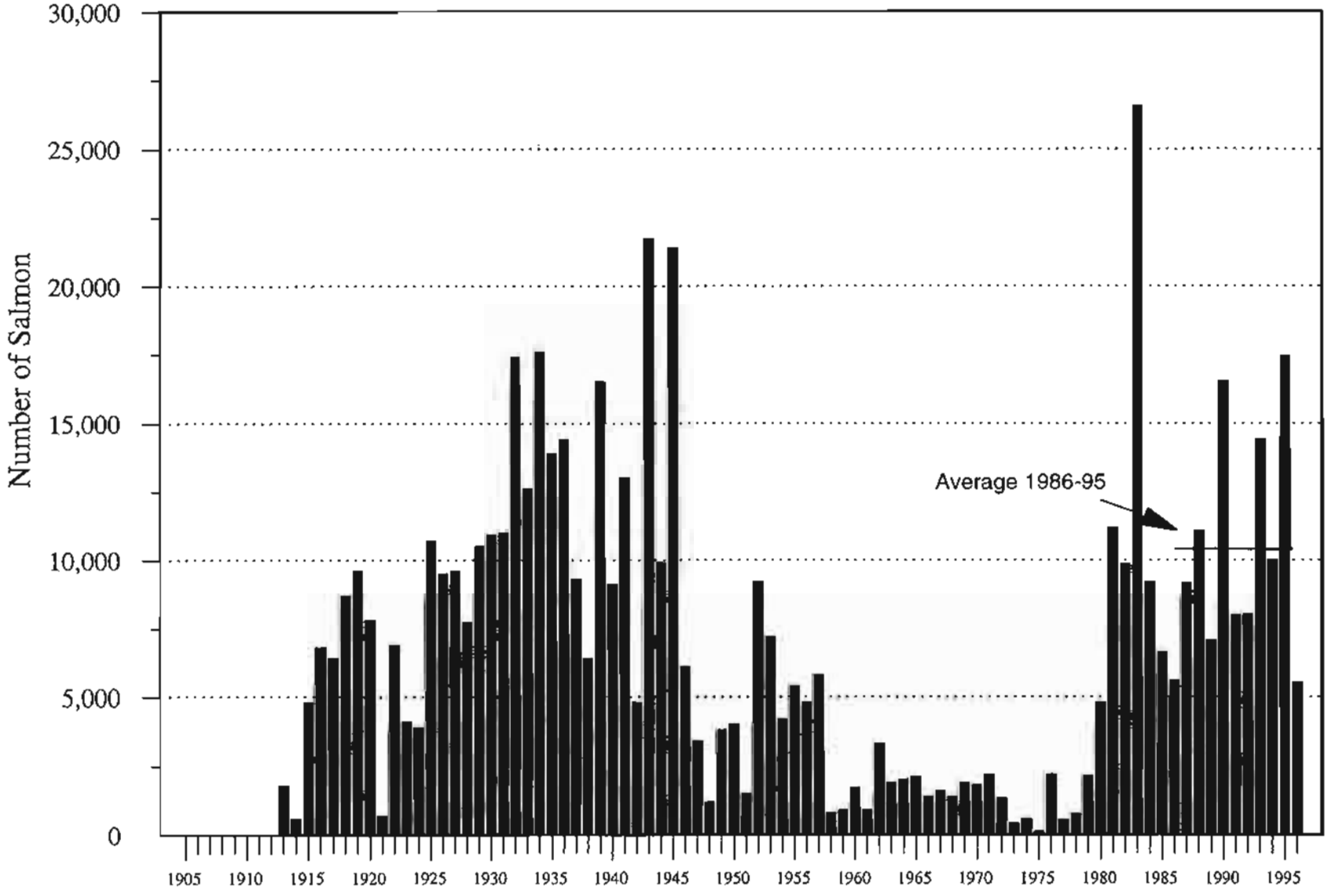
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1994[b]	343	6,750	10,002	2,107,233	255,905	9,179,853	2,192,079	13,745,072
1995[b]	352	8,193	17,469	3,017,002	264,347	16,311,770	1,728,013	21,338,601
1996[b]	331	5,875	5,520	1,543,134	293,374	2,207,503	794,642	4,844,173
Average 1918-29[c]			7,475	1,389,683	79,475	1,455,883	1,175,125	4,107,642
Average 1930-46[c]			12,706	1,495,412	160,088	5,269,929	1,437,165	8,375,300
Average 1947-77[c,d]	179	2,546	2,567	591,844	26,747	1,523,900	751,226	2,896,285
Average 1978-95[c]	325	5,847	9,914	2,262,342	273,030	7,160,145	1,459,532	11,164,963
Average 1976-95	314	5,506	9,061	2,070,445	245,843	6,634,905	1,352,362	10,312,616
Average 1986-95	343	6,296	10,731	2,377,330	319,333	7,825,025	1,514,096	12,046,515

[a] From 1928 until 1951 commercial salmon catches in the Aleutian Islands and the South Peninsula were combined. The Aleutian Islands catches are generally much smaller than South Peninsula harvests which are dominated by pink salmon. The 1978-95 Aleutian Islands average salmon harvest was 510,317 fish, while the 1978-95 average harvest for the South Peninsula was 11,164,963 salmon.

[b] Salmon numbers include test fish harvests.

[c] These historical averages are intended to illustrate how salmon productivity has flucuated in the South Peninsula.

[d] Permit and landing numbers are only available from 1970 through 1977.



Appendix A.10. South Peninsula chinook salmon harvest by year, 1905-96.

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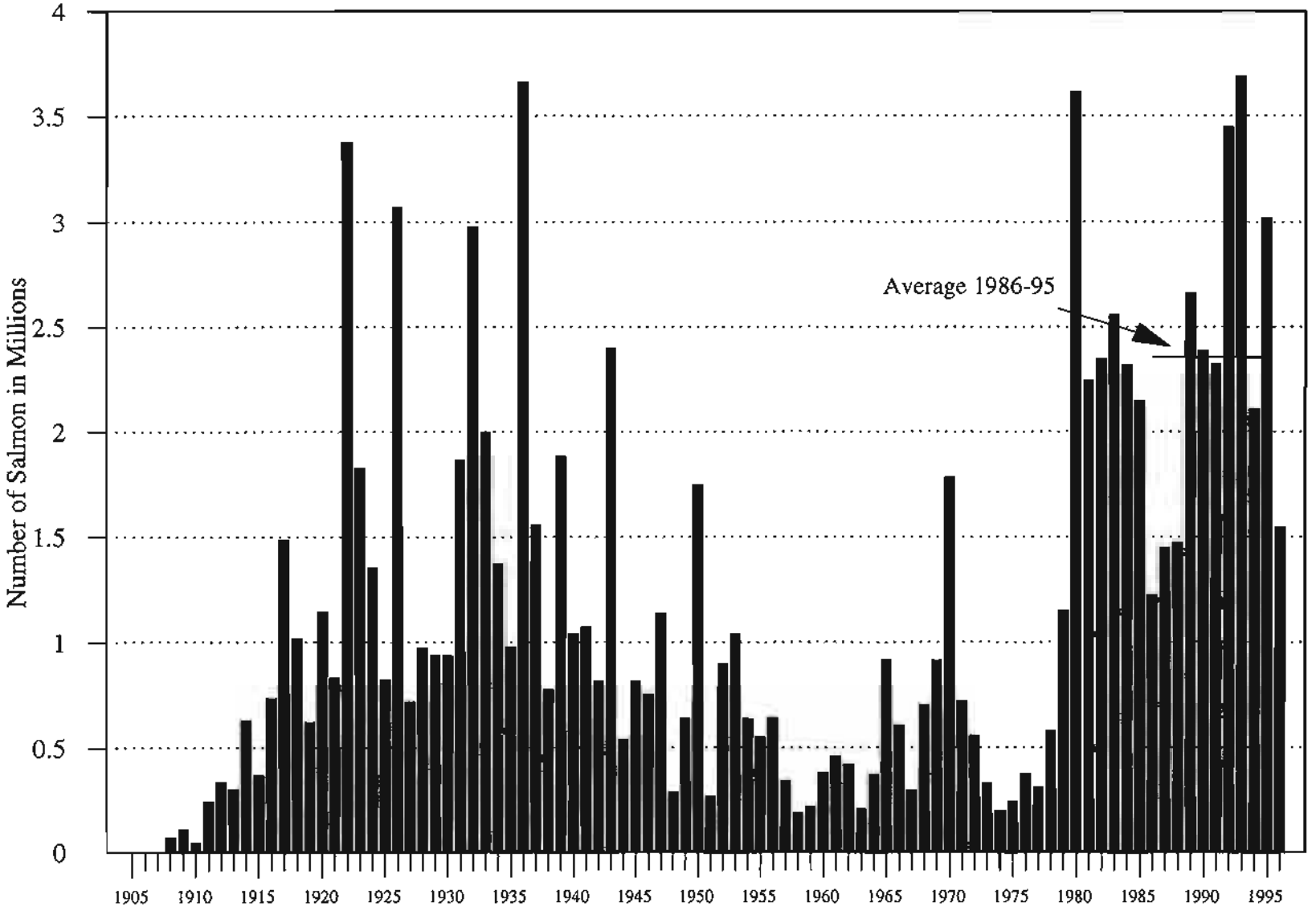
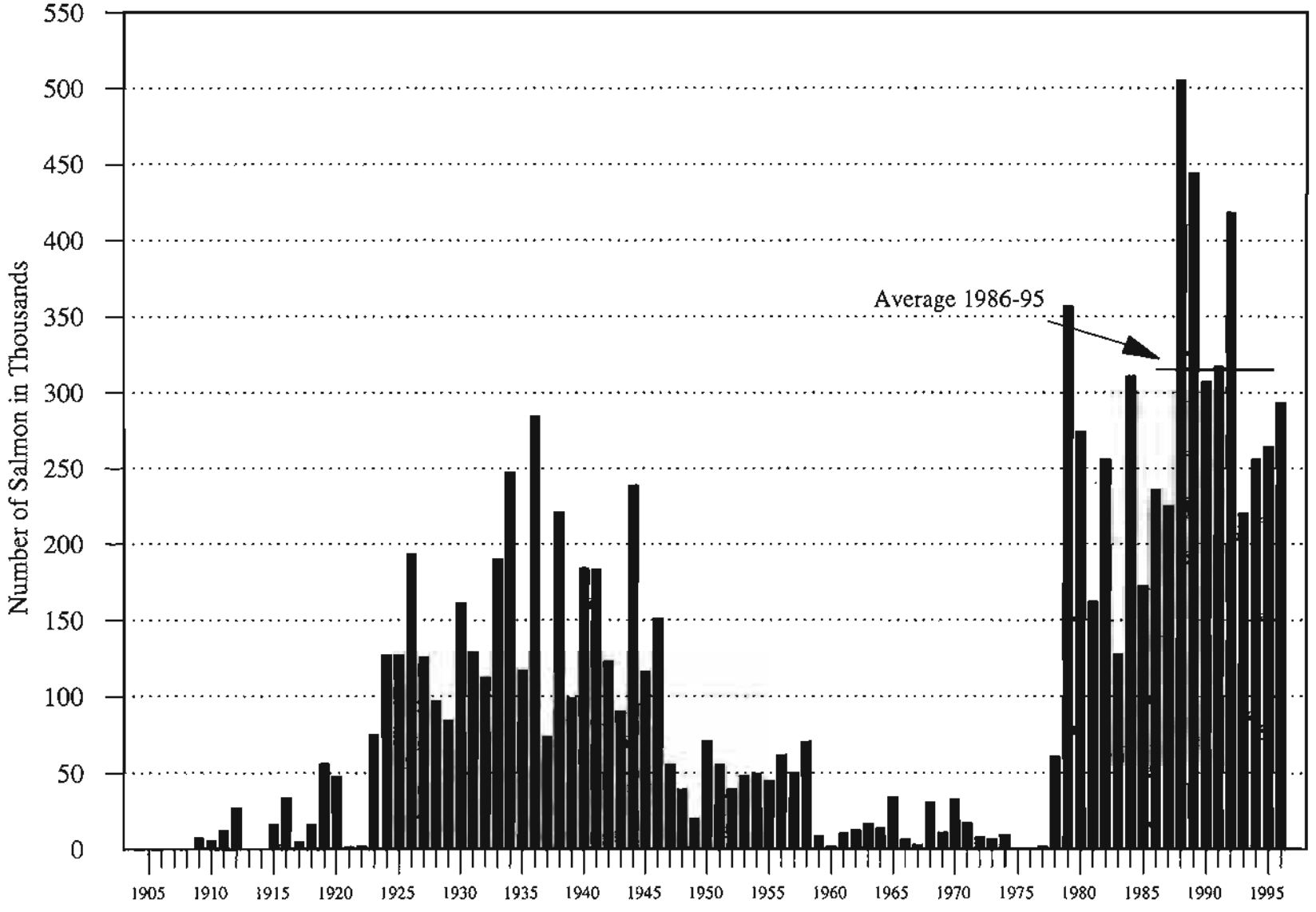


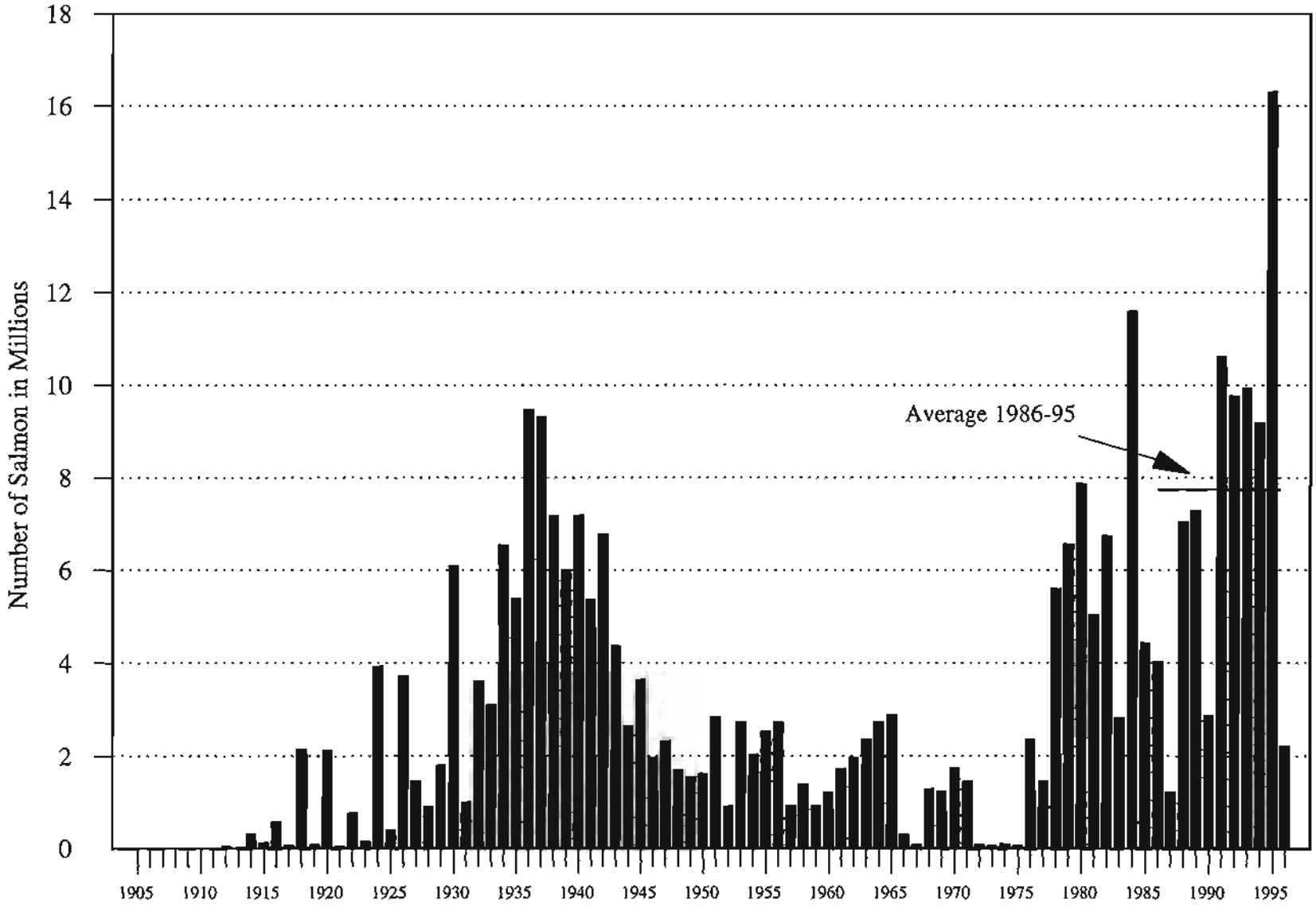
Appendix A.11. South Peninsula sockeye salmon harvest by year, 1905-96.

pg-sockhist
2/6/97



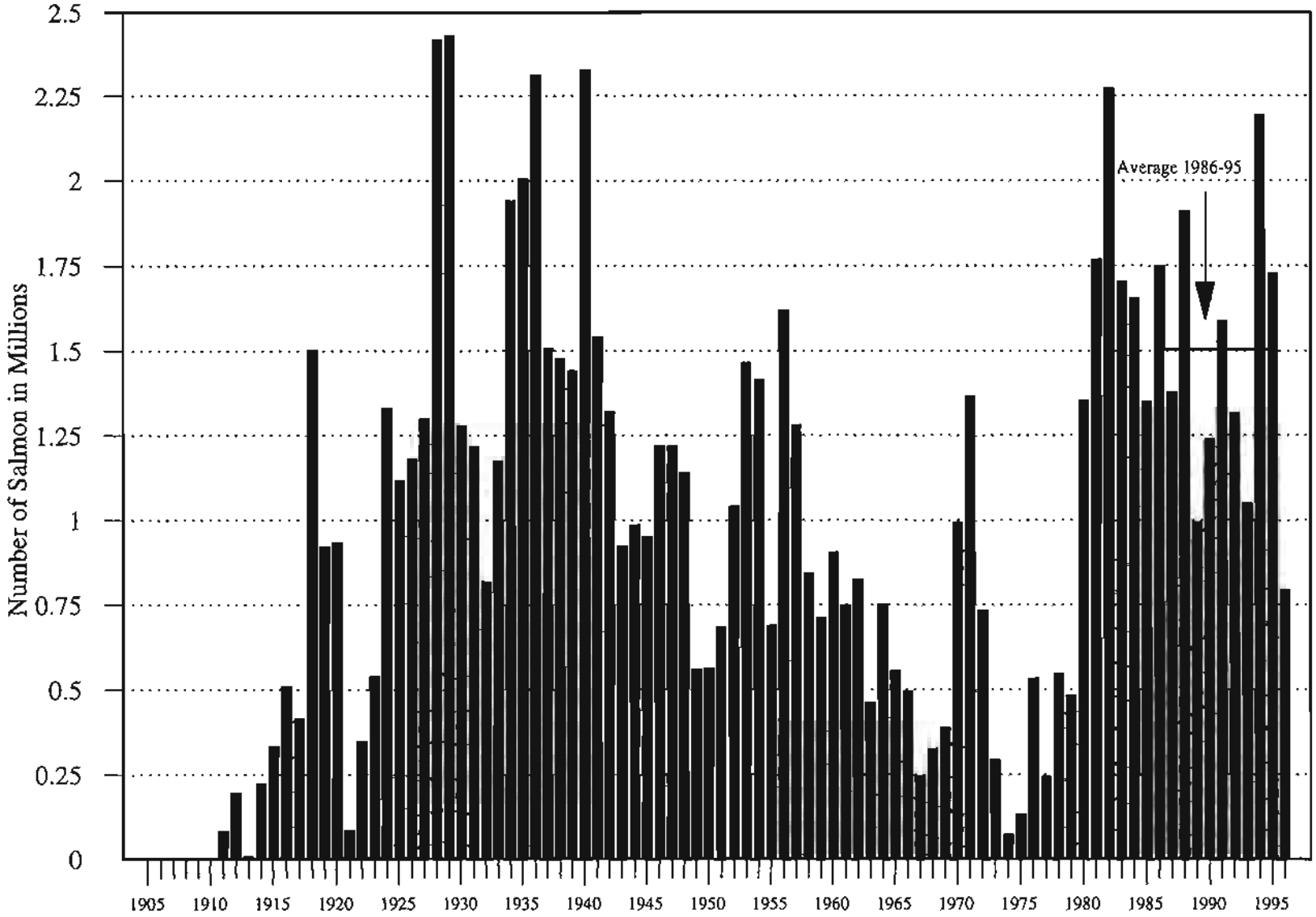
Appendix A.12. South Peninsula coho salmon harvest by year, 1905-96.

pg-cohohist
2/6/97



Appendix A.13. South Peninsula pink salmon harvest by year, 1905-96.

pg-pinkhist
2/6/97



Appendix A.14. South Peninsula chum salmon harvest by year, 1905-96.

pg-chumhist
2/6/97

Appendix A.15. South Peninsula commercial salmon harvest, all gear combined, season total by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
11-Jun	27	29	10	4,461	0	80	229	4,780
12-Jun	43	58	34	14,381	0	51	359	14,825
13-Jun	47	75	18	14,720	0	69	323	15,130
15-Jun	188	190	251	61,047	347	30,947	12,692	105,284
16-Jun	23	24	29	6,395	0	3,485	1,269	11,178
17-Jun	171	175	127	70,819	69	26,995	8,902	106,912
18-Jun	262	304	204	107,459	28	36,224	25,568	169,483
19-Jun	258	284	311	143,516	24	45,696	51,788	241,335
20-Jun	267	296	319	130,136	34	40,710	32,849	204,048
21-Jun	265	285	405	144,086	50	41,928	47,350	233,819
22-Jun	239	272	247	129,085	36	43,001	57,965	230,334
23-Jun	65	68	50	30,978	5	12,234	20,872	64,139
24-Jun	107	117	193	53,172	29	16,265	17,859	87,518
25-Jun	67	71	95	26,006	49	7,880	9,120	43,150
26-Jun	180	193	168	42,915	676	12,950	15,619	72,328
27-Jun	177	186	234	49,205	1,585	16,496	17,147	84,667
28-Jun	149	162	103	43,764	2,134	17,223	14,179	77,403
29-Jun	105	116	91	32,011	3,734	10,951	9,742	56,529
30-Jun	98	122	71	32,573	4,425	14,704	20,463	72,236
1-Jul [a]	*	*	*	*	*	*	*	*
3-Jul	42	48	21	7,988	46	109	546	8,710
4-Jul	41	52	8	11,307	48	336	1,065	12,764
5-Jul	43	57	2	14,432	24	475	1,091	16,024
6-Jul	51	59	24	9,796	32	459	1,019	11,330
7-Jul	40	49	12	6,226	40	803	642	7,723
8-Jul	19	23	2	4,939	5	256	295	5,497
9-Jul	44	52	6	15,553	132	2,394	1,595	19,680
10-Jul	51	58	4	18,141	283	3,083	4,152	25,663
11-Jul	4	5	1	1,013	107	366	308	1,795
12-Jul	44	49	7	5,840	84	2,546	1,417	9,894
13-Jul	38	40	2	6,256	47	3,630	1,534	11,469
14-Jul	26	30	5	6,289	27	2,521	1,083	9,925
15-Jul	25	32	3	5,122	8	2,163	708	8,004
16-Jul	31	42	2	11,871	131	4,476	1,786	18,266
17-Jul	70	83	42	18,591	458	10,898	3,693	33,682
18-Jul	56	58	32	13,156	2,740	6,369	3,088	25,385
20-Jul	111	117	218	11,189	23,080	115,179	24,210	173,876
21-Jul	137	165	184	21,555	35,372	154,739	42,267	254,117
22-Jul	131	154	200	19,287	35,584	89,836	30,300	175,207
23-Jul	27	37	9	6,422	234	24,146	3,397	34,208
24-Jul	86	94	37	16,047	4,846	49,772	12,947	83,649
25-Jul	115	136	234	15,631	32,842	144,567	24,553	217,827

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Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
26-Jul	128	163	334	35,804	25,272	176,871	33,486	271,767
27-Jul	5	5	0	202	5	25,583	2,135	27,925
28-Jul	83	93	156	15,325	8,580	106,237	26,466	156,764
29-Jul	103	131	167	25,503	24,557	179,949	27,857	258,033
30-Jul	101	128	99	12,439	16,775	117,788	16,774	163,875
31-Jul [a]	*	*	*	*	*	*	*	*
1-Aug	24	25	3	1,056	1,289	30,755	17,187	50,290
2-Aug	103	117	153	8,348	11,304	118,579	29,081	167,465
3-Aug	93	116	89	8,288	10,847	130,665	23,112	173,001
4-Aug	12	16	0	433	36	25,551	1,780	27,800
5-Aug	12	13	0	339	61	23,923	3,287	27,610
6-Aug	56	75	25	4,223	2,281	45,273	8,348	60,150
7-Aug	70	93	38	6,314	3,601	62,834	7,390	80,177
8-Aug	5	5	0	130	48	27,806	413	28,397
10-Aug	9	9	0	86	62	23,542	5,041	28,731
11-Aug	5	5	0	52	19	11,450	2,916	14,437
13-Aug	3	3	0	0	15	7,208	7,433	14,656
14-Aug	15	15	0	0	0	55,221	32,745	87,966
15-Aug	4	5	0	204	4	16,000	1,376	17,584
1-Sep	48	51	2	1,905	4,722	65	594	7,288
2-Sep	47	54	1	3,563	2,291	52	886	6,793
3-Sep	39	50	0	3,240	2,486	17	778	6,521
6-Sep	32	35	0	2,002	4,389	0	248	6,639
7-Sep	31	40	0	2,041	2,201	0	243	4,485
8-Sep [a]	*	*	*	*	*	*	*	*
9-Sep [a]	*	*	*	*	*	*	*	*
10-Sep	26	29	0	1,484	2,387	2	57	3,930
11-Sep	30	39	0	2,321	1,041	0	93	3,455
12-Sep	10	13	0	1,150	1,838	0	0	2,988
13-Sep	4	4	0	913	407	0	8	1,328
14-Sep [a]	*	*	*	*	*	*	*	*
15-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*
17-Sep	7	7	1	1,444	365	0	0	1,810
18-Sep [a]	*	*	*	*	*	*	*	*
19-Sep	5	7	0	1,263	226	0	0	1,489
20-Sep [a]	*	*	*	*	*	*	*	*
23-Sep [a]	*	*	*	*	*	*	*	*
24-Sep	6	6	0	567	129	0	0	696
25-Sep [a]	*	*	*	*	*	*	*	*
26-Sep	4	4	1	1,550	177	0	0	1,728

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Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
27-Sep [a]	*	*	*	*	*	*	*	*
1-Oct [a]	*	*	*	*	*	*	*	*
2-Oct [a]	*	*	*	*	*	*	*	*
4-Oct [a]	*	*	*	*	*	*	*	*
9-Oct [a]	*	*	*	*	*	*	*	*
11-Oct [a]	*	*	*	*	*	*	*	*
17-Oct [a]	*	*	*	*	*	*	*	*
Total	331	5,852	5,084	1,528,767	280,719	2,188,513	775,876	4,778,959

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix A.16. South Peninsula commercial salmon harvest, by statistical area, section, and district, 1996.

		Number of Salmon					
Statistical Area	Section	Chinook	Sockeye	Coho	Pink	Chum	Total
SOUTH PENINSULA							
Southeastern District							
281-15	Kupreanof Point	59	9,066	1,461	40,140	7,019	57,745
281-25	Island & Fox Bays	289	123,587	11,590	118,276	33,583	287,325
East Stepovak Section Total		348	132,653	13,051	158,416	40,602	345,070
281-30	Stepovak Flats Section	9	2,781	15	557	830	4,192
281-40	Grub Gulch/Clark Bay	41	33,555	586	8,653	6,212	49,047
281-50	Orzinski Bay	30	28,572	383	12,103	4,636	45,724
281-55	American Bay	21	14,328	203	6,214	2,599	23,365
281-60	Blunt Pt. to Dorenoi Bay	43	68,427	1,373	27,887	11,364	109,094
Northwest Stepovak Section Total		135	144,882	2,545	54,857	24,811	227,230
281-70	Southwest Stepovak Section	68	46,768	4,331	43,937	10,655	105,759
281-80	Balboa Bay Section	28	28,367	2,061	14,048	4,792	49,296
281-90	Beaver Bay Section	2	5,732	16	1,339	853	7,942
Southeastern District Mainland Total		590	361,183	22,019	273,154	82,543	739,489
282-10	Popof Strait/Squaw Harbor	80	24,071	5,548	22,320	16,161	68,180
282-11	Unga Cape/East Popof	2,049	281,466	134,781	662,737	241,210	1,322,243
282-20	Acheredin Bay	39	27,992	1,730	12,532	6,286	48,579
282-25	West Unga Island	73	42,258	1,317	27,860	7,866	79,374
282-30	Bay Point	10	1,111	1,625	1,896	710	5,352
282-35	Zachary Bay	1	1,090	85	621	415	2,212
282-40	East Head/West Head	1	4,905	445	1,137	962	7,450
282-42	Korovin Island	717	103,550	56,258	124,882	58,325	343,732
282-45	Cape Wedge/NE Nagai	4	1,344	0	575	746	2,669
282-65	Southeast Nagai	6	5,206	295	15,024	4,402	24,933
282-70	Southwest Nagai	151	40,892	2,232	54,177	22,023	119,475
282-75	Cape Horn/Porpoise Rocks	8	6,797	172	2,984	618	10,579
282-80	East Nagai Strait	56	8,954	5	7,549	4,987	21,551
Shumagin Islands Section Total		3,195	549,636	204,493	934,294	364,711	2,056,329
SOUTHEASTERN DISTRICT TOTAL		3,785	910,819	226,512	1,207,448	447,254	2,795,818

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Statistical Area	Section	Number of Salmon					
		Chinook	Sockeye	Coho	Pink	Chum	Total
South Central District							
283-15	Mino Creek	0	378	209	579	13	1,179
283-17	Coal Bay	3	4,025	252	67,626	1,547	73,453
Mino Cr.- Little Coal Bay Sect. Total		3	4,403	461	68,205	1,560	74,632
283-21	Northside Cape Tolstoi	0	1,809	42	4,437	375	6,663
283-23	Eastside Pavlof Bay	3	10,202	217	326,000	6,252	342,674
East Pavlof Bay Section Total		3	12,011	259	330,437	6,627	349,337
283-24	Canoe Bay Section	3	240	84	123,395	52,982	176,704
283-25	Northwest Pavlof Bay	1	441	40	342	283	1,107
283-26	Long Beach/Ukolnoi	4	2,850	776	15,012	9,155	27,797
West Pavlof Bay Section Total		5	3,291	816	15,354	9,438	28,904
SOUTH CENTRAL DISTRICT TOTAL		**14**	**19,945**	**1,620**	**537,391**	**70,607**	**629,577**
SOUTHWESTERN DISTRICT							
284-36	Volcano Bay	0	100	22	48,138	37,898	86,158
284-37	Northside Dolgoi Island	12	11,668	2,569	31,664	8,849	54,762
284-38	South Dologoi/Moss Cape	6	1,648	254	10,920	2,215	15,043
Volcano Bay Section Total		18	13,416	2,845	90,722	48,962	155,963
284-42	Belkofski Bay	3	3,103	171	112,773	22,667	138,717
284-45	King Cove	0	807	92	4,805	1,531	7,235
Belkofski Bay Section Total		3	3,910	263	117,578	24,198	145,952
284-55	Deer Island Section	0	156	10	38,283	122	38,571
284-62	Outer Cold Bay	0	1	0	0	197	198
284-65	Lenard Harbor	0	0	0	22,678	4,533	27,211
284-67	Inner Cold Bay	0	67	9	3,704	27,184	30,964
Cold Bay Section Total		0	68	9	26,382	31,914	58,373

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		Number of Salmon					
Statistical Area	Section	Chinook	Sockeye	Coho	Pink	Chum	Total
284-75	Thin Point Section	0	1,568	13,602	21	5	15,196
284-80	Morzhovoi Bay Section	14	4,300	195	4,086	8,258	16,853
284-90	Ikatan Bay Section	459	162,360	23,438	85,731	57,493	329,481
SOUTHWESTERN DISTRICT TOTAL		**494**	**185,778**	**40,362**	**362,803**	**170,952**	**760,389**
UNIMAK DISTRICT							
285-10	Sanak Island Section	0	522	0	825	0	1,347
285-20	Bird Island	107	85,043	281	11,902	19,784	117,117
285-30	Cape Lazaref	89	78,917	3,091	23,297	18,594	123,988
Otter Cove Section Total		196	163,960	3,372	35,199	38,378	241,105
285-40	Cape Lutke Section	595	247,743	8,853	44,847	48,685	350,723
UNIMAK DISTRICT TOTAL		**791**	**412,225**	**12,225**	**80,871**	**87,063**	**593,175**
SOUTH PENINSULA TOTAL		**5,084**	**1,528,767**	**280,719**	**2,188,513**	**775,876**	**4,778,959**

Appendix A.17. South Peninsula commercial purse seine salmon harvest by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	43	43	158	24,168	0	28,545	6,433	59,304
16-Jun	7	7	17	1,861	0	3,121	914	5,913
17-Jun	39	39	80	19,557	6	25,418	3,696	48,757
18-Jun	70	75	106	41,247	0	34,113	16,799	92,265
19-Jun	66	66	209	59,674	1	43,867	39,030	142,781
20-Jun	79	81	210	56,285	6	39,568	22,960	119,029
21-Jun	72	73	295	67,781	2	39,996	35,079	143,153
22-Jun	72	72	206	62,367	6	41,588	46,654	150,821
23-Jun	28	28	45	20,825	3	11,991	20,198	53,062
24-Jun	53	54	181	34,925	14	16,052	16,020	67,192
25-Jun	23	23	81	14,095	26	7,727	7,488	29,417
26-Jun	59	59	115	20,168	74	12,546	10,844	43,747
27-Jun	52	52	177	15,578	92	15,597	10,564	42,008
28-Jun	42	43	80	12,745	270	15,990	8,378	37,463
29-Jun	22	22	44	8,526	392	10,277	4,400	23,639
30-Jun	23	23	39	9,881	525	14,076	12,508	37,029
6-Jul [a]	*	*	*	*	*	*	*	*
7-Jul [a]	*	*	*	*	*	*	*	*
11-Jul [a]	*	*	*	*	*	*	*	*
12-Jul	10	10	5	870	5	653	458	1,991
13-Jul	6	6	1	1,287	0	977	316	2,581
14-Jul [a]	*	*	*	*	*	*	*	*
15-Jul [a]	*	*	*	*	*	*	*	*
16-Jul [a]	*	*	*	*	*	*	*	*
17-Jul	14	14	30	2,903	225	3,921	1,538	8,617
18-Jul [a]	*	*	*	*	*	*	*	*
20-Jul	57	57	207	4,654	20,252	105,230	20,553	150,896
21-Jul	69	71	171	8,666	27,744	140,607	35,693	212,881
22-Jul	64	66	176	7,376	31,985	79,227	26,157	144,921
23-Jul	5	5	3	128	33	18,689	1,676	20,529
24-Jul	23	23	26	2,981	721	34,868	7,850	46,446
25-Jul	51	52	208	6,732	27,460	129,954	18,097	182,451
26-Jul	53	54	298	13,762	21,622	144,772	23,953	204,407
27-Jul	4	4	0	19	0	24,978	2,102	27,099
28-Jul	39	39	153	7,118	7,582	92,738	22,981	130,572
29-Jul	48	49	160	11,198	21,125	153,850	21,310	207,643
30-Jul	44	44	97	3,885	13,357	94,598	10,958	122,895
31-Jul [a]	*	*	*	*	*	*	*	*
1-Aug	10	10	2	247	250	26,287	15,398	42,184
2-Aug	46	47	147	2,899	9,497	96,711	24,759	134,013

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			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
3-Aug	44	44	80	2,471	9,226	103,827	17,780	133,384
4-Aug	4	6	0	4	0	23,097	1,124	24,225
5-Aug	5	5	0	57	15	22,990	2,928	25,990
6-Aug	18	19	20	572	1,257	32,045	5,302	39,196
7-Aug	33	33	36	877	2,208	45,809	4,001	52,931
8-Aug	4	4	0	11	9	27,626	245	27,891
10-Aug	5	5	0	7	2	22,310	4,488	26,807
11-Aug [a]	*	*	*	*	*	*	*	*
13-Aug [a]	*	*	*	*	*	*	*	*
14-Aug	15	15	0	0	0	55,221	32,745	87,966
15-Aug	3	4	0	0	0	16,000	1,252	17,252
1-Sep	3	3	0	29	471	0	20	520
2-Sep [a]	*	*	*	*	*	*	*	*
6-Sep [a]	*	*	*	*	*	*	*	*
Total	102	1,467	3,882	550,502	199,217	1,884,108	577,322	3,215,031

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix A.18. South Peninsula commercial drift gillnet salmon harvest by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	133	135	81	35,285	13	2,205	6,093	43,677
16-Jun	12	13	12	4,172	0	260	324	4,768
17-Jun	121	122	45	48,261	62	1,540	5,074	54,982
18-Jun	127	140	69	38,989	23	1,886	6,794	47,761
19-Jun	133	138	90	46,128	18	1,679	10,167	58,082
20-Jun	124	129	81	43,662	28	1,118	8,246	53,135
21-Jun	128	134	80	50,173	45	1,884	11,094	63,276
22-Jun	123	135	36	52,881	26	1,350	10,429	64,722
23-Jun	7	7	0	1,322	0	212	158	1,692
24-Jun	30	30	8	11,596	9	159	1,268	13,040
25-Jun	26	27	14	7,513	22	139	1,416	9,104
26-Jun	87	91	42	15,383	601	341	4,159	20,526
27-Jun	89	92	48	21,169	1,405	802	5,243	28,667
28-Jun	62	67	17	16,923	1,622	1,083	4,138	23,783
29-Jun	45	50	32	14,996	3,197	532	4,478	23,235
30-Jun	39	48	19	13,429	3,830	428	7,022	24,728
1-Jul [a]	*	*	*	*	*	*	*	*
20-Jul	7	7	1	366	1,733	799	900	3,799
21-Jul	12	13	0	839	6,113	1,316	2,627	10,895
22-Jul	7	7	2	573	2,088	1,026	518	4,207
24-Jul	11	11	4	752	2,451	1,934	1,500	6,641
25-Jul	12	12	3	505	2,608	2,438	2,753	8,307
26-Jul	11	12	12	851	1,434	2,908	2,707	7,912
28-Jul	8	8	2	328	486	2,252	772	3,840
29-Jul	5	5	1	540	2,231	1,327	841	4,940
30-Jul	4	4	0	374	1,775	1,066	551	3,766
1-Aug	4	4	1	257	878	1,442	701	3,279
2-Aug [a]	*	*	*	*	*	*	*	*
6-Aug [a]	*	*	*	*	*	*	*	*
Total	147	1,446	702	427,658	33,462	33,211	100,409	595,442

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix A.19. South Peninsula commercial set gillnet salmon harvest by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
11-Jun	27	29	10	4,461	0	80	229	4,780
12-Jun	43	58	34	14,381	0	51	359	14,825
13-Jun	47	75	18	14,720	0	69	323	15,130
15-Jun	12	12	12	1,594	334	197	166	2,303
16-Jun	4	4	0	362	0	104	31	497
17-Jun	11	14	2	3,001	1	37	132	3,173
18-Jun	65	89	29	27,223	5	225	1,975	29,457
19-Jun	59	80	12	37,714	5	150	2,591	40,472
20-Jun	64	86	28	30,189	0	24	1,643	31,884
21-Jun	65	78	30	26,132	3	48	1,177	27,390
22-Jun	44	65	5	13,837	4	63	882	14,791
23-Jun	30	33	5	8,831	2	31	516	9,385
24-Jun	24	33	4	6,651	6	54	571	7,286
25-Jun	18	21	0	4,398	1	14	216	4,629
26-Jun	34	43	11	7,364	1	63	616	8,055
27-Jun	36	42	9	12,458	88	97	1,340	13,992
28-Jun	45	52	6	14,096	242	150	1,663	16,157
29-Jun	38	44	15	8,489	145	142	864	9,655
30-Jun	36	51	13	9,263	70	200	933	10,479
3-Jul	42	48	21	7,988	46	109	546	8,710
4-Jul	41	52	8	11,307	48	336	1,065	12,764
5-Jul	43	57	2	14,432	24	475	1,091	16,024
6-Jul	50	58	24	9,795	32	459	822	11,132
7-Jul	39	48	12	6,206	40	700	596	7,554
8-Jul	19	23	2	4,939	5	256	295	5,497
9-Jul	44	52	6	15,553	132	2,394	1,595	19,680
10-Jul	51	58	4	18,141	283	3,083	4,152	25,663
11-Jul [a]	*	*	*	*	*	*	*	*
12-Jul	34	39	2	4,970	79	1,893	959	7,903
13-Jul	32	34	1	4,969	47	2,653	1,218	8,888
14-Jul	25	29	5	5,793	27	1,495	1,002	8,322
15-Jul	24	31	3	4,987	8	1,985	644	7,627
16-Jul	30	41	2	10,978	117	3,960	1,626	16,683
17-Jul	56	69	12	15,688	233	6,977	2,155	25,065
18-Jul	53	55	13	12,815	209	4,886	2,178	20,101
20-Jul	47	53	10	6,169	1,095	9,150	2,757	19,181
21-Jul	56	81	13	12,050	1,515	12,816	3,947	30,341
22-Jul	60	81	22	11,338	1,511	9,583	3,625	26,079
23-Jul	22	32	6	6,294	201	5,457	1,721	13,679
24-Jul	52	60	7	12,314	1,674	12,970	3,597	30,562

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Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
25-Jul	52	72	23	8,394	2,774	12,175	3,703	27,069
26-Jul	64	97	24	21,191	2,216	29,191	6,826	59,448
27-Jul [a]	*	*	*	*	*	*	*	*
28-Jul	36	46	1	7,879	512	11,247	2,713	22,352
29-Jul	50	77	6	13,765	1,201	24,772	5,706	45,450
30-Jul	53	80	2	8,180	1,643	22,124	5,265	37,214
31-Jul [a]	*	*	*	*	*	*	*	*
1-Aug	10	11	0	552	161	3,026	1,088	4,827
2-Aug	54	67	5	5,208	1,133	20,848	4,004	31,198
3-Aug	49	72	9	5,817	1,621	26,838	5,332	39,617
4-Aug	8	10	0	429	36	2,454	656	3,575
5-Aug	7	8	0	282	46	933	359	1,620
6-Aug	37	55	4	3,649	977	13,163	3,026	20,819
7-Aug	37	60	2	5,437	1,393	17,025	3,389	27,246
8-Aug [a]	*	*	*	*	*	*	*	*
10-Aug	4	4	0	79	60	1,232	553	1,924
11-Aug [a]	*	*	*	*	*	*	*	*
15-Aug [a]	*	*	*	*	*	*	*	*
1-Sep	45	48	2	1,876	4,251	65	574	6,768
2-Sep	46	53	1	3,550	2,236	52	869	6,708
3-Sep	39	50	0	3,240	2,486	17	778	6,521
6-Sep	31	34	0	1,994	4,285	0	226	6,505
7-Sep	31	40	0	2,041	2,201	0	243	4,485
8-Sep [a]	*	*	*	*	*	*	*	*
9-Sep [a]	*	*	*	*	*	*	*	*
10-Sep	26	29	0	1,484	2,387	2	57	3,930
11-Sep	30	39	0	2,321	1,041	0	93	3,455
12-Sep	10	13	0	1,150	1,838	0	0	2,988
13-Sep	4	4	0	913	407	0	8	1,328
14-Sep [a]	*	*	*	*	*	*	*	*
15-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*
17-Sep	7	7	1	1,444	365	0	0	1,810
18-Sep [a]	*	*	*	*	*	*	*	*
19-Sep	5	7	0	1,263	226	0	0	1,489
20-Sep [a]	*	*	*	*	*	*	*	*
23-Sep [a]	*	*	*	*	*	*	*	*
24-Sep	6	6	0	567	129	0	0	696
25-Sep [a]	*	*	*	*	*	*	*	*
26-Sep	4	4	1	1,550	177	0	0	1,728
27-Sep [a]	*	*	*	*	*	*	*	*
1-Oct [a]	*	*	*	*	*	*	*	*

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			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
2-Oct [a]	*	*	*	*	*	*	*	*
4-Oct [a]	*	*	*	*	*	*	*	*
9-Oct [a]	*	*	*	*	*	*	*	*
11-Oct [a]	*	*	*	*	*	*	*	*
17-Oct [a]	*	*	*	*	*	*	*	*
Total	82	2,939	500	550,607	48,040	271,194	98,145	968,486

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix A.20. South Peninsula commercial salmon harvest by species, district, and gear, 1996.

	Number of Salmon						
	Chinook	Sockeye	Coho	Pink	Chum	Total	Percent of Harvest
SOUTHEASTERN DISTRICT							
Seine	3,340	408,622	195,422	982,739	363,129	1,953,252	70
Set gillnet	445	502,197	31,090	224,709	84,125	842,566	30
Total	**3,785**	**910,819**	**226,512**	**1,207,448**	**447,254**	**2,795,818**	**100**
SOUTH CENTRAL DISTRICT							
Seine	13	7,390	1,214	522,823	68,661	600,101	95
Set gillnet	1	12,555	406	14,568	1,946	29,476	5
Total	**14**	**19,945**	**1,620**	**537,391**	**70,607**	**629,577**	**100**
SOUTHWESTERN DISTRICT							
Seine	229	55,036	2,519	311,515	124,294	493,593	65
Drift gillnet	215	99,156	21,305	19,410	35,033	175,119	23
Set gillnet	50	31,586	16,538	31,878	11,625	91,677	12
Total	**494**	**185,778**	**40,362**	**362,803**	**170,952**	**760,389**	**100**
UNIMAK DISTRICT							
Seine	300	79,454	62	67,031	21,238	168,085	28
Drift gillnet	487	328,502	12,157	13,801	65,376	420,323	71
Set gillnet	4	4,269	6	39	449	4,767	1
Total	**791**	**412,225**	**12,225**	**80,871**	**87,063**	**593,175**	**100**
SOUTH PENINSULA TOTAL							
Seine	3,882	550,502	199,217	1,884,108	577,322	3,215,031	67
Drift gillnet	702	427,658	33,462	33,211	100,409	595,442	12
Set gillnet	500	550,607	48,040	271,194	98,145	968,486	20
Total	**5,084**	**1,528,767**	**280,719**	**2,188,513**	**775,876**	**4,778,959**	**100**

Appendix A.21. South Peninsula salmon runs by species, 1962-96[a].

Year		Chinook	Sockeye	Coho	Pink	Chum
1962	Catch	3,300	420,000	12,500	1,965,400	824,800
	Escapement	0	18,800	-	1,598,800	399,400
	Total	3,300	438,800	-	3,564,200	1,224,200
1963	Catch	1,900	204,400	16,500	2,367,700	461,300
	Escapement	0	23,000	-	1,317,900	446,700
	Total	1,900	227,400	-	3,685,600	908,000
1964	Catch	2,000	370,800	13,600	2,740,300	751,000
	Escapement	0	15,700	-	1,436,400	454,800
	Total	2,000	386,500	-	4,176,700	1,205,800
1965	Catch	2,100	915,700	34,200	2,884,100	556,400
	Escapement	0	12,100	-	1,035,400	228,000
	Total	2,100	927,800	-	3,919,500	784,400
1966	Catch	1,400	606,200	6,300	305,800	494,400
	Escapement	0	17,000	-	719,400	422,000
	Total	1,400	623,200	-	1,025,200	916,400
1967	Catch	1,600	294,100	2,900	78,300	245,200
	Escapement	0	16,200	-	445,500	182,900
	Total	1,600	310,300	-	523,800	428,100
1968	Catch	1,400	699,800	31,100	1,287,100	325,300
	Escapement	0	12,800	-	823,300	279,100
	Total	1,400	712,600	-	2,110,400	604,400
1969	Catch	1,900	912,800	10,900	1,219,100	389,200
	Escapement	0	29,500	-	2,474,900	134,600
	Total	1,900	942,300	-	3,694,000	523,800
1970	Catch	1,806	1,799,525	32,571	1,737,985	993,349
	Escapement	0	16,500	-	1,298,900	280,500
	Total	1,806	1,816,025	-	3,036,885	1,273,849
1971	Catch	2,174	716,087	16,907	1,445,031	1,365,957
	Escapement	0	19,400	-	702,700	343,200
	Total	2,174	735,487	-	2,147,731	1,709,157
1972	Catch	1,332	557,422	8,021	78,221	731,814
	Escapement	0	11,900	-	111,400	254,500
	Total	1,332	569,322	-	189,621	986,314

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Year		Chinook	Sockeye	Coho	Pink	Chum
1973	Catch	415	330,091	6,599	58,051	292,943
	Escapement	0	7,300	-	110,800	212,500
	Total	415	337,391	-	168,851	505,443
1974	Catch	581	197,153	9,366	100,601	71,826
	Escapement	0	95,600	-	284,400	257,300
	Total	581	292,753	-	385,001	329,126
1975	Catch	117	243,548	67	60,642	130,750
	Escapement	0	51,700	-	552,100	193,300
	Total	117	295,248	-	612,742	324,050
1976	Catch	2,196	375,027	216	2,366,833	532,503
	Escapement	0	69,700	-	1,456,400	327,200
	Total	2,196	444,727	-	3,823,233	859,703
1977	Catch	559	311,722	2,108	1,448,648	243,167
	Escapement	0	64,900	-	2,677,800	774,900
	Total	559	376,622	-	4,126,448	1,018,067
1978	Catch	773	579,411	60,774	5,590,145	546,182
	Escapement	0	64,800	-	2,858,700	600,500
	Total	773	644,211	-	8,348,845	1,146,682
1979	Catch	2,141	1,149,927	356,867	6,564,914	482,930
	Escapement	0	53,300	-	2,629,500	411,100
	Total	2,141	1,203,227	-	9,194,414	894,030
1980	Catch	4,794	3,613,025	274,181	7,861,470	1,353,112
	Escapement	0	45,900	-	2,641,600	362,400
	Total	4,794	3,658,925	-	10,502,070	1,713,512
1981	Catch	11,182	2,241,513	162,223	5,033,028	1,768,475
	Escapement	0	45,700	-	2,307,500	381,300
	Total	11,182	2,287,213	-	7,340,528	2,149,775
1982	Catch	9,845	2,345,981	256,046	6,734,905	2,272,495
	Escapement	0	39,200	-	2,293,000	386,900
	Total	9,845	2,385,181	-	9,027,905	2,659,395
1983	Catch	26,571	2,556,557	127,657	2,827,622	1,704,072
	Escapement	0	59,200	-	851,200	446,500
	Total	26,571	2,615,757	-	3,678,822	2,150,572

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Year		Chinook	Sockeye	Coho	Pink	Chum
1984	Catch	9,198	2,318,028	310,950	11,589,258	1,654,622
	Escapement	0	54,800	-	3,811,600	699,700
	Total	9,198	2,372,828	-	15,400,858	2,354,322
1985	Catch	6,642	2,144,416	172,514	4,431,016	1,348,726
	Escapement	0	49,900	-	1,614,100	503,400
	Total	6,642	2,194,316	-	6,045,116	1,852,126
1986	Catch	5,589	1,223,089	235,854	4,031,487	1,749,651
	Escapement	0	48,000	-	1,716,700	544,500
	Total	5,589	1,271,089	-	5,748,187	2,294,226
1987	Catch	9,174	1,449,753	225,120	1,208,556	1,376,887
	Escapement	0	44,600	-	1,540,500	620,700
	Total	9,174	1,494,353	-	2,749,056	1,997,587
1988	Catch	11,075	1,473,651	505,533	7,044,824	1,908,507
	Escapement	0	74,100	-	2,839,600	496,400
	Total	11,075	1,547,751	-	9,884,424	2,404,907
1989	Catch	7,065	2,660,800	443,843	7,292,658	994,231
	Escapement	0	78,100	-	1,870,900	310,500
	Total	7,065	2,738,900	-	9,163,558	1,304,731
1990	Catch	16,522	2,386,844	307,218	2,865,856	1,237,826
	Escapement	0	95,300	(75.0-100.0)[b]	1,598,400	354,700
	Total	16,522	2,482,144	367.2-397.2[b]	4,464,256	1,592,526
1991	Catch	7,975	2,319,942	317,129	10,616,756	1,588,795
	Escapement	0	124,900	-	2,946,800	587,600
	Total	7,975	2,444,842	-	13,563,556	2,176,395
1992	Catch	8,026	3,445,914	418,232	9,770,386	1,316,709
	Escapement	0	97,600	-	2,834,400	335,500
	Total	8,026	3,543,514	-	12,604,786	1,652,209
1993	Catch	14,413	3,689,074	220,148	9,928,107	1,048,257
	Escapement	0	100,341	-	2,990,140	397,030
	Total	14,413	3,789,415	-	12,918,247	1,445,287
1994	Catch	10,002	2,107,233	255,905	9,179,853	2,192,079
	Escapement	0	120,255	-	3,071,725	579,100
	Total	10,002	2,227,488	-	12,251,578	2,771,179
1995	Catch	17,078	2,996,353	260,686	16,302,593	1,715,067
	Escapement	0	129,110	-	6,406,300	726,400
	Total	17,078	3,125,463	260,686	22,708,893	2,441,467
1996	Catch	5,526	1,543,691	293,374	2,205,094	793,679
	Escapement	0	72,950	-	3,647,550	610,300
	Total	5,526	1,616,641	293,374	5,852,644	1,403,979

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[a] Salmon numbers include commercial and test fish harvests, but exclude subsistence harvests.

[b] Escapements are indexed totals and the figures in parenthesis are rough extrapolated estimates.

Appendix A.22. South Peninsula pink salmon runs, 1962-96.[a]

		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1962	Catch	922,100	977,300	1,899,400	42,000	24,000	66,000
	Escapement	826,100	772,700	1,598,800			
	Total	1,748,200	1,750,000	3,498,200			
1963	Catch	1,733,900	590,800	2,324,700	14,000	29,000	43,000
	Escapement	886,500	431,400	1,317,900			
	Total	2,620,400	1,022,200	3,642,200			
1964	Catch	1,514,600	1,190,700	2,705,300	18,000	17,000	35,000
	Escapement	902,400	534,000	1,436,400			
	Total	2,417,000	1,724,700	4,141,700			
1965	Catch	2,331,400	474,700	2,806,100	43,000	35,000	78,000
	Escapement	789,900	245,500	1,035,400			
	Total	3,121,300	720,200	3,841,500			
1966	Catch	220,300	68,500	288,800	15,000	2,000	17,000
	Escapement	627,400	92,000	719,400			
	Total	847,700	160,500	1,008,200			
1967	Catch	53,100	4,200	57,300	11,000	10,000	21,000
	Escapement	327,300	118,200	445,500			
	Total	380,400	122,400	502,800			
1968	Catch	863,300	277,800	1,141,100	34,000	112,000	146,000
	Escapement	528,100	295,200	823,300			
	Total	1,391,400	573,000	1,964,400			
1969	Catch	862,800	265,300	1,128,100	68,000	23,000	91,000
	Escapement	1,906,200	568,700	2,474,900			
	Total	2,769,000	834,000	3,603,000			
1970	Catch	1,378,374	252,030	1,630,404	87,717	19,725	107,442
	Escapement	1,007,900	291,000	1,298,900			
	Total	2,386,274	543,030	2,929,304			
1971	Catch	1,211,943	211,585	1,423,528	11,608	7,632	19,240
	Escapement	488,000	214,700	702,700			
	Total	1,699,943	426,285	2,126,228			

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Year		Not including June Migrants: Southeastern and South Central Districts	Not including June Migrants: Southwestern and Unimak Districts	South Peninsula Totals	June Migrants: South Unimak	June Migrants: Shumagin	Total June Migrants
1972	Catch	53,312	6,958	60,270	11,906	6,018	17,924
	Escapement	81,800	29,600	111,400			
	Total	135,112	36,558	171,670			
1973	Catch	36,427	2,073	38,500	11,152	8,278	19,430
	Escapement	85,700	25,100	110,800			
	Total	122,127	27,173	149,300			
1974	Catch	95,529	4,650	100,179	0	0	0
	Escapement	238,600	45,800	284,400			
	Total	334,129	50,450	384,579			
1975	Catch	30,052	25,343	55,395	3,205	2,042	5,247
	Escapement	357,800	194,300	552,100			
	Total	387,852	219,643	607,495			
1976	Catch	2,035,814	306,786	2,342,600	18,259	5,643	23,902
	Escapement	1,084,000	372,400	1,456,400			
	Total	3,119,814	679,186	3,799,000			
1977	Catch	1,163,500	279,745	1,443,245	3,397	2,001	5,398
	Escapement	2,168,500	509,300	2,677,800			
	Total	3,332,000	789,045	4,121,045			
1978	Catch	4,167,852	1,332,325	5,500,177	47,380	42,562	89,942
	Escapement	1,966,300	892,400	2,858,700			
	Total	6,134,152	2,224,725	8,358,877			
1979	Catch	4,839,031	1,570,553	6,409,584	49,000	105,813	154,813
	Escapement	2,125,100	504,400	2,629,500			
	Total	6,964,131	2,074,953	9,039,084			
1980	Catch	3,732,127	2,603,032	6,335,159	1,140,611	385,695	1,526,306
	Escapement	1,410,400	1,231,200	2,641,600			
	Total	5,142,527	3,834,232	8,976,759			
1981	Catch	3,950,473	631,170	4,581,643	325,004	126,248	451,252
	Escapement	1,875,000	431,800	2,306,800			
	Total	5,825,473	1,062,970	6,888,443			

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		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1982	Catch	4,104,934	911,131	5,016,065	1,032,154	681,214	1,713,368
	Escapement	1,533,200	759,800	2,293,000			
	Total	5,638,134	1,670,931	7,309,065			
1983	Catch	2,245,429	526,315	2,771,744	40,441	15,434	55,875
	Escapement	639,200	212,000	851,200			
	Total	2,884,629	738,315	3,622,944			
1984	Catch	6,532,654	4,136,235	10,668,889	470,688	449,188	919,876
	Escapement	2,526,700	1,824,900	3,811,600			
	Total	8,519,354	5,961,135	14,480,489			
1985	Catch	3,323,535	1,000,350	4,323,885	69,811	36,804	106,615
	Escapement	1,229,300	384,500	1,614,100			
	Total	4,553,135	1,384,850	5,937,985			
1986	Catch	3,066,556	672,867	3,739,423	150,674	141,315	291,989
	Escapement	1,185,500	531,200	1,716,700			
	Total	4,252,056	1,204,067	5,456,123			
1987	Catch	1,143,374	48,138	1,191,512	11,342	5,640	16,982
	Escapement	1,304,400	236,100	1,540,500			
	Total	2,447,774	284,238	2,732,012			
1988	Catch	4,700,486	2,164,114	6,864,600	86,678	93,546	180,224
	Escapement	1,636,500	1,203,100	2,839,600			
	Total	6,336,986	3,367,214	9,704,200			
1989	Catch	5,582,274	1,507,621	7,089,895	154,168	45,067	199,235
	Escapement	1,179,300	691,600	1,870,900			
	Total	6,761,574	2,199,221	8,960,795			
1990	Catch	1,738,743	607,300	2,346,043	444,442	70,798	515,240
	Escapement	1,018,200	580,200	1,598,400			
	Total	2,756,943	1,187,500	3,944,443			
1991	Catch	7,549,853	2,427,570	9,977,423	500,922	118,215	619,137
	Escapement	2,268,400	678,400	2,946,800			
	Total	9,818,253	3,105,970	12,924,223			

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Year		Not including June Migrants: Southeastern and South Central Districts	Not including June Migrants: Southwestern and Unimak Districts	South Peninsula Totals	June Migrants: South Unimak	June Migrants: Shumagin	Total June Migrants
1992	Catch	4,860,628	4,256,851	9,117,479	501,127	140,963	642,090
	Escapement	1,781,000	1,053,400	2,834,400			
	Total	6,641,628	5,310,251	11,951,879			
1993	Catch	7,493,472	2,353,200	9,843,962	37,735	43,401	81,136
	Escapement	2,232,200	757,900	2,990,140			
	Total	9,725,712	3,111,100	12,834,102			
1994	Catch	3,149,763	3,501,426	6,651,189	1,731,741	760,773	2,492,514
	Escapement	1,700,525	1,371,200	3,073,225			
	Total	4,850,288	4,872,626	9,724,414			
1995	Catch	11,362,914	4,761,044	16,123,958	119,094	59,541	178,635
	Escapement	4,404,450	2,001,850	6,406,300			
	Total	15,767,364	6,762,894	22,530,258			
1996	Catch	1,513,954	306,881	1,820,835	146,799	230,885	377,684
	Escapement	2,668,950	978,600	3,647,550			
	Total	4,182,904	1,285,481	5,468,385			

[a] Salmon numbers exclude test fish and subsistence harvests.

Appendix A.23. South Peninsula chum salmon runs, 1962-96.[a]

		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1962	Catch	409,500	155,300	564,800	199,000	61,000	260,000
	Escapement	238,600	160,800	399,400			
	Total	648,100	316,100	964,200			
1963	Catch	278,000	80,300	358,300	67,000	36,000	103,000
	Escapement	263,000	183,700	446,700			
	Total	541,000	264,000	805,000			
1964	Catch	378,800	153,300	532,100	153,000	67,000	220,000
	Escapement	160,800	294,000	454,800			
	Total	539,600	447,300	986,900			
1965	Catch	221,700	150,700	372,400	139,000	45,000	184,000
	Escapement	203,300	24,200	228,000			
	Total	425,000	175,400	600,400			
1966	Catch	221,400	36,000	257,400	220,000	17,000	237,000
	Escapement	354,800	67,200	422,000			
	Total	576,800	103,200	679,400			
1967	Catch	118,700	4,500	123,200	71,000	51,000	122,000
	Escapement	132,800	50,100	182,900			
	Total	251,500	54,600	306,100			
1968	Catch	121,400	47,600	169,000	105,000	51,000	156,000
	Escapement	191,700	87,400	279,100			
	Total	313,100	135,000	448,100			
1969	Catch	95,100	43,300	138,400	238,000	13,000	251,000
	Escapement	96,900	37,700	134,600			
	Total	192,000	81,000	273,000			
1970	Catch	485,444	65,254	550,698	397,003	44,896	441,899
	Escapement	171,700	108,800	280,500			
	Total	657,144	174,054	831,198			
1971	Catch	646,351	209,565	855,916	405,311	103,886	509,197
	Escapement	199,100	144,100	343,200			
	Total	845,451	353,665	1,199,116			

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		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1972	Catch	150,784	61,721	212,505	411,019	107,810	518,829
	Escapement	145,000	109,500	254,500			
	Total	295,784	171,221	467,005			
1973	Catch	79,369	12,441	91,810	177,720	22,910	200,630
	Escapement	130,900	81,600	212,500			
	Total	210,269	94,041	304,310			
1974	Catch	56,113	15,317	71,430	0	0	0
	Escapement	169,800	87,500	257,300			
	Total	225,913	102,817	328,730			
1975	Catch	29,419	509	29,928	65,279	35,542	100,821
	Escapement	160,200	33,100	193,300			
	Total	189,619	33,609	223,228			
1976	Catch	106,368	14,914	121,282	336,238	74,109	410,347
	Escapement	225,300	101,900	327,200			
	Total	331,668	116,814	448,482			
1977	Catch	109,132	17,630	126,762	94,215	21,899	116,114
	Escapement	500,900	274,000	774,900			
	Total	610,032	291,630	901,662			
1978	Catch	340,319	83,213	423,532	103,429	18,479	121,908
	Escapement	386,200	214,300	600,500			
	Total	726,519	297,513	1,024,032			
1979	Catch	280,286	98,426	378,712	63,153	40,953	104,106
	Escapement	302,700	108,400	411,100			
	Total	582,986	206,826	789,812			
1980	Catch	674,847	169,141	843,988	458,499	50,366	508,865
	Escapement	241,600	120,800	362,400			
	Total	916,447	289,941	1,206,388			
1981	Catch	961,456	239,998	1,201,454	509,911	54,071	563,982
	Escapement	234,500	146,800	381,300			
	Total	1,195,956	386,798	1,582,754			

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		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1982	Catch	915,847	255,661	1,171,508	933,728	164,975	1,098,703
	Escapement	203,000	183,900	386,900			
	Total	1,118,847	439,561	1,558,408			
1983	Catch	596,053	321,145	917,198	616,390	169,277	785,667
	Escapement	328,900	117,600	446,500			
	Total	924,953	438,745	1,363,698			
1984	Catch	827,717	484,630	1,312,347	227,913	109,207	337,120
	Escapement	446,000	253,700	699,700			
	Total	1,273,717	738,330	2,012,047			
1985	Catch	536,748	375,832	912,580	324,825	109,004	433,829
	Escapement	284,700	218,800	503,500			
	Total	821,448	594,632	1,416,080			
1986	Catch	977,635	416,697	1,394,332	252,721	99,148	351,769
	Escapement	239,600	305,000	544,600			
	Total	1,217,235	721,697	1,938,932			
1987	Catch	750,282	179,500	929,782	406,077	37,064	443,141
	Escapement	329,200	291,500	620,700			
	Total	179,482	471,000	1,550,482			
1988	Catch	829,518	552,278	1,381,796	464,765	61,946	526,711
	Escapement	269,100	227,300	496,400			
	Total	198,618	779,578	1,878,196			
1989	Catch	421,254	116,923	538,177	407,635	47,528	455,163
	Escapement	189,200	121,300	310,500			
	Total	610,454	238,223	848,677			
1990	Catch	563,642	152,298	715,940	455,238	63,501	518,739
	Escapement	210,900	143,800	354,700			
	Total	774,542	296,098	1,070,640			
1991	Catch	571,802	226,088	797,890	670,409	102,602	773,011
	Escapement	345,400	242,200	587,600			
	Total	917,202	468,288	1,385,490			

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		Not including June Migrants			June Migrants		
Year		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	Total June Migrants
1992	Catch	592,893	287,173	880,066	323,891	102,312	426,203
	Escapement	194,100	141,400	335,500			
	Total	786,993	428,573	1,215,566			
1993	Catch	331,003	182,576	513,579	381,941	150,306	532,247
	Escapement	172,400	224,630	397,030			
	Total	503,403	407,206	910,609			
1994	Catch	690,666	902,924	1,593,590	374,409	207,756	582,165
	Escapement	211,700	367,400	579,100			
	Total	902,366	1,270,324	2,172,690			
1995	Catch	666,344	511,290	1,177,634	342,307	195,126	537,433
	Escapement	324,750	401,650	726,400			
	Total	991,094	912,940	1,904,034			
1996	Catch	287,930	128,126	416,056	129,889	229,931	359,820
	Escapement	307,400	302,900	610,300			
	Total	595,330	431,026	1,026,356			

[a]Salmon numbers exclude test fish and subsistence harvests.

Appendix B.1. South Unimak and Shumagin Islands June commercial sockeye and chum salmon harvest, all gear combined,1911-96.

	Sockeye			Chum		
Year	South Unimak	Shumagin Islands	Total	South Unimak	Shumagin Islands	Total
1911	58,000	3,000	61,000			
1912	144,000	31,000	175,000			
1913	415,000	0	415,000			
1914	610,000	0	610,000			
1915	251,000	0	251,000			
1916	539,000	0	539,000			
1917	1,322,000	34,000	1,356,000			
1918	733,000	44,000	777,000			
1919	545,000	32,000	577,000			
1920	954,000	60,000	1,014,000			
1921	831,000	0	831,000			
1922	2,775,000	550,000	3,325,000			
1923	1,340,000	343,000	1,683,000			
1924	971,000	237,000	1,208,000			
1925	357,000	374,000	731,000			
1926	1,898,000	491,000	2,389,000			
1927	455,000	185,000	640,000			
			1928-1933 Unavailable			
1934	516,000	1,019,000	1,535,000			
1935	210,000	549,000	759,000			
1936	1,531,000	1,490,000	3,021,000			
1937	803,000	498,000	1,301,000			
1938	164,000	454,000	618,000			
1939	474,000	707,000	1,181,000			
1940	479,000	713,000	1,192,000			
1941	206,000	294,000	496,000			
1942	152,000	412,000	546,000			
1943	428,000	1,356,000	1,784,000			
1944	188,000	264,000	452,000			
1945	218,000	375,000	593,000			
1946	342,000	257,000	599,000			
1947	782,000	229,000	1,011,000			
1948	276,000	126,000	402,000			
1949	84,000	167,000	251,000			
1950	292,000	134,000	426,000			
1951	82,000	35,000	117,000			
1952	191,000	121,000	312,000			
1953	191,000	105,000	296,000			
1954	325,000	49,000	374,000			
1955	315,000	52,000	367,000			
1956	290,000	47,000	337,000			
1957	50,000	44,000	94,000			
1958	104,000	28,000	132,000			
1959	58,000	78,000	136,000			

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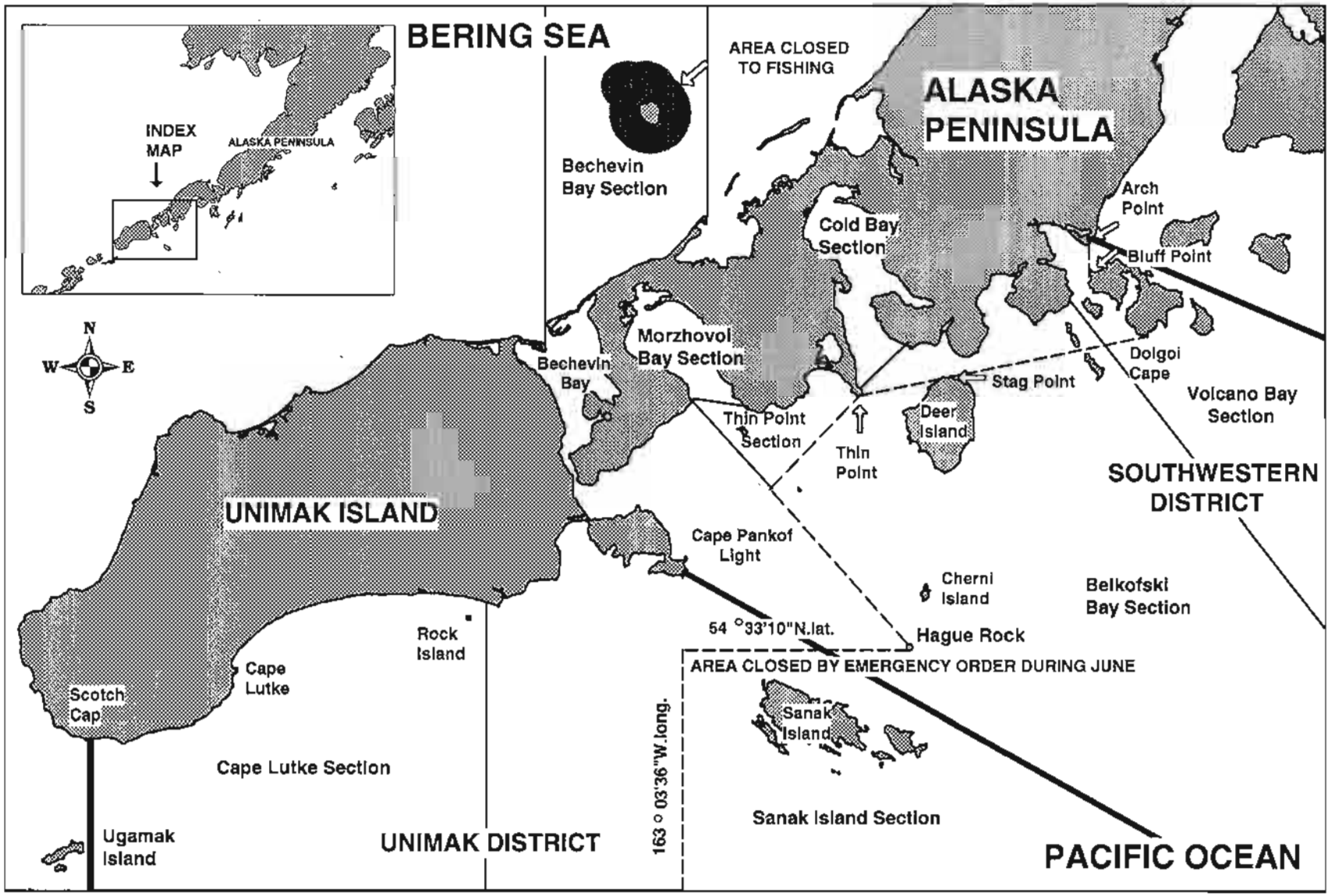
	Sockeye			Chum		
Year	South Unimak	Shumagin Islands	Total	South Unimak	Shumagin Islands	Total
1960	137,000	19,000	156,000	84,000	11,000	95,000
1961	199,000	55,000	254,000	157,000	36,000	193,000
1962	272,000	54,000	326,000	209,000	61,000	270,000
1963	116,000	33,000	149,000	36,000	36,000	72,000
1964	159,000	85,000	244,000	161,000	67,000	228,000
1965	568,000	207,000	775,000	121,000	45,000	166,000
1966	528,000	54,000	582,000	215,000	17,000	232,000
1967	186,000	69,000	255,000	73,000	51,000	124,000
1968	342,000	233,000	575,000	115,000	51,000	166,000
1969	781,000	76,000	857,000	254,000	13,000	267,000
1970	1,510,399	139,735	1,650,134	397,003	44,909	441,912
1971	422,760	39,341	462,101	405,311	103,886	509,197
1972	426,799	74,398	501,197	411,019	107,810	518,829
1973	222,586	22,964	245,550	177,720	22,910	200,630
1974	0	0	0	0	0	0
1975	190,774	49,325	240,099	65,279	35,543	100,822
1976	233,211	72,016	305,227	336,238	74,109	410,347
1977	195,680	45,912	241,592	94,215	21,899	116,114
1978	418,959	67,876	486,835	103,429	18,479	121,908
1979	672,293	179,139	851,432	63,153	40,953	104,106
1980	2,731,148	475,127	3,206,275	458,499	50,366	508,865
1981	1,470,563	350,572	1,821,135	509,911	54,071	563,982
1982	1,668,153	450,548	2,118,701	933,728	161,316	1,095,044
1983	1,547,369	416,494	1,963,863	616,390	169,277	785,667
1984	1,131,365	256,838	1,388,203	227,913	109,207	337,120
1985	1,454,969	336,431	1,791,400	324,825	109,004	433,829
1986	315,370	156,027	471,397	252,721	99,048	351,769
1987	653,536	140,567	794,103	406,077	37,064	443,141
1988	474,457	282,230	756,687	464,765	61,946	526,711
1989	1,347,547	396,958	1,744,505	407,635	47,528	455,163
1990	1,090,710	255,585	1,346,295	455,238	63,501	518,739
1991	1,215,658	333,272	1,548,930	670,103	102,602	772,705
1992	2,046,022	411,834	2,457,856	323,891	102,312	426,203
1993	2,366,573	607,171	2,973,744	381,941	150,306	532,247
1994	1,001,250	460,013	1,461,263	374,409	207,756	582,165
1995	1,451,490	653,831	2,105,321	342,307	195,126	537,433
1996	572,495	456,475	1,028,970	129,889	229,931	359,820
1976-85 Average	1,152,371	265,095	1,417,466	366,830	80,868	447,698
1986-95 Average	1,196,261	369,749	1,566,010	407,909	106,719	514,628



Appendix B.2. Map of the South Unimak June fishery.

Appendix B.3. History of regulations for the South Unimak and Shumagin Islands June commercial fisheries, 1962-1996.

Year	South Unimak	Shumagin Islands
1962-66	5 days per week	5 days per week
1967-70	7 days per week	7 days per week
1971-72	6:00 A.M. Monday - 6:00 A.M. Saturday	7 days per week
1973	*Four 13 hour fishing periods per week	*Four 13 hour fishing periods per week.
	* Both fisheries were closed by emergency order during June 25-28 due to indications of the Bristol Bay run being below escapement requirements.	
1974	No fishery	No fishery
1975-83	**6.8% of predicted Bristol Bay catch	1.5% of predicted Bristol Bay catch
1984-89	No more than 96 hours per 7 day period and no more than 72 hours of consecutive fishing time in each fishery (windows).	
1986	**6.8% allocation minus June 26-30 segment Windows No fishing before June 11	1.5% allocation minus June 26-30 segment Windows No fishing before June 11
	A 400,000 chum salmon ceiling placed on both fisheries combined.	
1987	**Same as during 1984-85 for both fisheries.	
1988-89	**6.8 of predicted Bristol Bay catch Windows	1.5% of predicted Bristol Bay catch Windows
	A 500,000 chum salmon ceiling placed on both fisheries combined.	
	**Each sockeye allocation is broken down into time period guideline harvest levels.	

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Dates	South Unimak	Shumagin Islands
June 1 - 11	5%	9%
June 12 - 18	29%	28%
June 19 - 25	51%	41%
June 26 - 30	15%	22%
	100%	100%

1990-91 The chum ceiling was increased from 500,000 to 600,000.

The "Window Regulations" implemented in 1984 to limit the amount of fishing time that could be allowed were deleted.

The season was delayed until June 13 and the time period sockeye allocations for both fisheries were changed as follow:

June 13-18	35%
June 19-25	45%
June 26-30	20%

The gear depth for seines was limited to 375 meshes of which mesh size may not exceed 3-1/2 inches except for the first 25 meshes above the lead line which may not exceed 7 inches.

The gear depth on gillnets along the South Peninsula was limited to no more than 90 meshes.

Seine leads may not exceed 150 fathoms for the entire Alaska Peninsula.

1992-93 The chum ceiling was increased from 600,000 to 700,000 fish. The other regulations were the same as in effect for 1990 and 1991.

1994 Sockeye time period allocations eliminated. ADF&G given flexibility to open fishery prior to June 13 if sockeye to chum ratios are favorable.

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Dates	South Unimak	Shumagin Islands
1995-96	The amount fishing time allowed for seine and drift gillnet gear after June 24 is limited if the sockeye to chum salmon ratio is two to one or less. The Board of Fisheries stated it's intent that the maximum harvest or less of 700,000 chum salmon supersedes attempts to reach the sockeye guideline harvest levels. The fisheries could not be extended into July regardless of weather during late June. Fishery cannot begin prior to June 11. Removed mesh size requirements for gillnets.	

Appendix B.4. South Unimak and Shumagin Islands June fisheries commercial salmon harvest by species, all gear combined, 1970-96.

Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	202	2,926	1,016	1,650,134	48	107,445	441,912	2,200,555
1971	166	1,986	828	462,101	1	19,240	509,197	991,367
1972	185	2,097	642	501,197	20	17,924	518,829	1,038,612
1973	142	1,043	247	245,550	28	19,430	200,630	465,885
1974	0	0	0	0	0	0	0	0
1975	108	510	117	240,099	1	5,247	100,822	346,286
1976	147	1,393	2,134	305,227	3	23,902	410,347	741,613
1977	131	821	521	241,592	0	5,398	116,114	363,625
1978	159	1,570	536	486,835	3	89,942	121,908	699,224
1979	196	1,697	1,053	851,432	290	154,813	104,106	1,111,694
1980	225	2,044	3,193	3,206,275	853	1,526,306	508,865	5,245,492
1981	243	2,401	5,672	1,821,135	320	451,252	563,982	2,842,361
1982	251	2,612	7,131	2,118,701	1,241	1,718,825	1,095,044	4,940,942
1983	282	1,729	13,463	1,963,863	496	55,875	785,667	2,819,364
1984	280	1,117	3,854	1,388,203	14	919,876	337,120	2,649,067
1985	305	2,117	5,777	1,791,400	2,468	106,615	433,829	2,340,089
1986	298	1,486	1,895	471,397	2	291,989	351,769	1,117,052
1987	290	2,027	5,163	794,103	380	16,982	443,141	1,259,769
1988	301	1,777	4,064	756,687	255	180,224	526,711	1,467,941
1989	305	1,350	2,758	1,744,505	0	199,235	455,163	2,401,661
1990	321	2,731	10,333	1,346,295	1	515,240	518,739	2,390,608
1991	334	2,025	4,473	1,548,930	12	619,137	772,705	2,945,257
1992	322	1,925	3,760	2,457,856	4	642,090	426,203	3,529,913
1993	328	2,262	9,466	2,973,744	1,233	81,136	532,247	3,597,826
1994	325	2,751	7,590	1,461,263	1,579	2,492,514	582,165	4,545,111
1995	332	3,635	14,747	2,105,321	6,042	178,635	537,433	2,842,178
1996	313	2,676	2,845	1,028,970	13,219	377,684	359,820	1,782,538
1976-95 Average	269	1,974	5,379	1,491,738	760	513,499	481,163	2,492,539
1986-95 Average	316	2,197	6,425	1,566,010	951	521,718	514,628	2,609,732

Appendix B.5. South Unimak June commercial salmon harvest by species, all gear combined, 1970-96.

Year	Permit	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	176	2,627	868	1,510,399	46	87,717	397,003	1,996,033
1971	147	1,685	549	422,760	0	11,608	405,311	840,228
1972	166	1,770	400	426,799	4	11,906	411,019	850,128
1973	133	923	145	222,586	11	11,152	177,720	411,614
1974	0	0	0	0	0	0	0	0
1975	98	445	101	190,774	1	3,205	65,279	259,360
1976	133	1,192	1,829	233,211	3	18,259	336,238	589,540
1977	120	744	393	195,680	0	3,397	94,215	293,685
1978	141	1,338	269	418,959	3	47,380	103,429	570,040
1979	158	1,305	578	672,293	38	49,000	63,153	785,062
1980	188	1,666	2,927	2,731,148	853	1,140,611	458,499	4,334,038
1981	226	2,097	4,455	1,470,563	83	325,004	509,911	2,310,016
1982	225	2,313	5,577	1,668,153	1,241	1,032,154	933,728	3,640,853
1983	258	1,418	8,186	1,547,369	493	40,441	616,390	2,212,879
1984	226	814	2,024	1,131,365	0	470,688	227,913	1,831,990
1985	255	1,593	4,101	1,454,969	2	69,811	324,825	1,853,708
1986	236	1,093	1,363	315,370	1	150,674	252,721	720,129
1987	229	1,746	4,017	653,536	380	11,342	406,077	1,075,352
1988	211	1,144	2,125	474,457	11	86,678	464,765	1,028,036
1989	266	1,035	2,263	1,347,547	0	154,168	407,635	1,911,613
1990	271	2,146	8,465	1,090,710	1	444,442	455,238	1,998,856
1991[a]	267	1,628	3,066	1,215,658	5	500,922	670,103	2,389,754
1992	273	1,597	2,373	2,046,022	3	501,127	323,891	2,873,416
1993	245	1,681	4,587	2,366,573	506	37,735	381,941	2,791,342
1994	265	1,927	4,468	1,001,250	1,271	1,731,741	374,409	3,113,139
1995	241	2,575	7,850	1,451,490	5,102	119,094	342,307	1,925,843
1996	230	1,797	1,228	572,495	11,730	146,799	129,889	862,141
1976-95 Average	222	1,553	3,546	1,174,316	500	346,733	387,369	1,912,465
1986-95 Average	250	1,657	4,058	1,196,261	728	373,792	407,909	1,982,748

[a] In 1991, a South Unimak test fishery resulted in the additonal harvest of 377 sockeye and 306 chum salmon.

Appendix B.6 Shumagin Islands June commercial salmon harvest by species, all gear combined, 1970-96.

Year	Permit	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	40	299	148	139,735	2	19,728	44,909	204,522
1971	31	301	279	39,341	1	7,632	103,886	151,139
1972	32	327	242	74,398	16	6,018	107,810	188,484
1973	21	120	102	22,964	17	8,278	22,910	54,271
1974	0	0	0	0	0	0	0	0
1975	20	65	16	49,325	0	2,042	35,543	86,926
1976	30	201	305	72,016	0	5,643	74,109	152,073
1977	25	77	128	45,912	0	2,001	21,899	69,940
1978	30	232	267	67,876	0	42,562	18,479	129,184
1979	47	392	475	179,139	252	105,813	40,953	326,632
1980	54	378	266	475,127	0	385,695	50,366	911,454
1981	43	304	1,217	350,572	237	126,248	54,071	532,345
1982	48	299	1,554	450,548	0	686,671	161,316	1,300,089
1983	69	311	5,277	416,494	3	15,434	169,277	606,485
1984	99	303	1,830	256,838	14	449,188	109,207	817,077
1985	110	524	1,676	336,431	2,466	36,804	109,004	486,381
1986	72	393	532	156,027	1	141,315	99,048	396,923
1987	97	281	1,146	140,567	0	5,640	37,064	184,417
1988	97	633	1,939	282,230	244	93,546	61,946	439,905
1989	104	315	495	396,958	0	45,067	47,528	490,048
1990	95	585	1,868	255,585	0	70,798	63,501	391,752
1991	101	397	1,407	333,272	7	118,215	102,602	555,503
1992	103	328	1,387	411,834	1	140,963	102,312	656,497
1993	106	581	4,879	607,171	727	43,401	150,306	806,484
1994	106	824	3,122	460,013	308	760,773	207,756	1,431,972
1995	102	1,060	6,897	653,831	940	59,541	195,126	916,335
1996	111	879	1,617	456,475	1,489	230,885	229,931	920,397
1976-95 Average	77	421	1,833	317,422	260	166,766	93,794	580,075
1986-95 Average	98	540	2,367	369,749	223	147,926	106,719	626,984

Appendix B.7. South Unimak and Shumagin Islands June fisheries, sockeye allocations vs. actual harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-96.

Year	S. Unimak-Shumagin Islands Guideline Harvest Level (GHL)	Actual S. Unimak-Shumagin Is. Harvest[a]	Actual Bristol Bay Harvest	Combined Bristol Bay & S. Unimak-Shumagin Harvest	S. Unimak-Shumagin GHL % of Combined Bristol Bay & S. Unimak-Shumagin Harvest[b]	S. Unimak Shumagin Is. Harvest % of Combined Bristol Bay-S. Unimak Harvest[b]	S. Unimak Shumagin Is. GHL if Actual Bristol Bay Harvest Was Forecasted[b]
1975	215,000	240,099	4,898,814	5,138,913	4.18	4.67	427,000
1976	425,000	305,227	5,619,292	5,924,519	7.17	5.15	492,000
1977	237,000	241,592	4,877,880	5,119,472	4.63	4.72	425,000
1978	522,000	486,835	9,928,139	10,414,974	5.01	4.67	864,000
1979	1,100,000	851,432	21,428,606	22,280,038	4.94	3.82	1,849,000
1980[c]	3,068,000	3,206,275	23,761,746	26,968,021	11.38	11.89	2,238,000
1981	1,760,000	1,821,135	25,603,081	27,424,216	6.42	6.64	2,276,000
1982	2,258,000	2,118,701	15,104,391	17,223,092	13.11	12.3	1,430,000
1983	1,793,000	1,963,863	37,372,031	39,335,894	4.56	4.99	3,265,000
1984	1,356,000	1,388,203	24,710,306	26,098,509	5.2	5.32	2,166,000
1985	1,685,000	1,791,400	23,702,883	25,494,283	6.61	7.03	2,116,000
1986[d]	1,107,000	471,397	15,776,056	16,247,453	6.81	2.9	1,349,000
1987	775,000	794,103	16,068,775	16,862,878	4.6	4.71	1,400,000
1988[d]	1,542,000	756,687	13,989,757	14,746,444	10.46	5.13	1,224,000
1989	1,463,000	1,744,505	28,735,306	30,479,811	4.8	5.72	2,530,000
1990	1,327,000	1,346,295	33,523,127	34,869,422	3.81	3.86	2,894,000
1991[d]	1,920,000	1,548,930	25,821,180	27,370,110	7.01	5.66	2,272,000
1992	2,391,000	2,457,856	31,879,676	34,337,532	6.96	7.16	2,850,000
1993	2,899,000	2,973,744	40,462,124	43,435,868	6.67	6.85	3,605,100
1994	3,586,000	1,461,263	35,224,050	36,685,313	9.78	3.98	3,045,000
1995	3,646,000	2,105,321	44,266,217	46,371,538	7.86	4.54	3,849,000
1996[e]	3,130,000	1,028,970	29,650,300	30,679,270	10.2	3.35	2,546,000

[a] Salmon numbers exclude test fish harvests.

[b] These values were calculated by adding the actual Bristol Bay sockeye harvest and the South Unimak and Shumagin Islands June sockeye harvests together and determining or applying the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

[c] The 1980 Bristol Bay sockeye catch would have been much larger had it not been for a lengthy strike.

[d] Sockeye allocations were not reached largely, if not totally, due to a chum cap.

[e] Bristol Bay harvest numbers are preliminary.

Appendix B.8. South Unimak June fishery, sockeye allocations vs. actual harvet and allocations if Bristol Bay runs were perfectly forecasted, 1975-96.

Year	S. Unimak Guideline Harvest Level (GHL)	Actual S. Unimak Harvest	Actual Bristol Bay Harvest	Combined Bristol Bay & S. Unimak-Shumagin Harvest	S. Unimak GHL % of Combined Bristol Bay & S. Unimak-Shumagin Harvest[a]	S. Unimak Harvest % of Combined Bristol Bay-S. Unimak Harvest[b]	S. Unimak GHL if Actual Bristol Bay Harvest Was Forecasted[b]
1975	165,000	190,774	4,898,814	5,138,913	3.21	3.71	349,000
1976	350,000	233,211	5,619,292	5,924,519	5.91	3.94	403,000
1977	195,000	195,680	4,877,880	5,119,472	3.81	3.82	348,000
1978	428,000	418,959	9,928,139	10,414,974	4.11	4.02	708,000
1979	900,000	672,293	21,428,606	22,280,038	4.04	3.02	1,515,000
1980[c]	2,513,000	2,731,148	23,761,746	26,968,021	9.32	10.13	1,834,000
1981	1,442,000	1,470,563	25,603,081	27,424,216	5.26	5.36	1,865,000
1982	1,850,000	1,668,153	15,104,391	17,223,092	10.74	9.69	1,171,000
1983	1,469,000	1,547,369	37,372,031	39,335,894	3.73	3.93	2,675,000
1984	1,111,000	1,131,365	24,710,306	26,098,509	4.26	4.33	1,775,000
1985	1,380,000	1,454,969	23,702,883	25,494,283	5.41	5.71	1,734,000
1986[d]	907,000	315,370	15,776,056	16,247,453	5.58	1.94	1,105,000
1987	635,000	653,536	16,068,775	16,862,878	3.77	3.88	1,147,000
1988[d]	1,263,000	474,457	13,989,757	14,746,444	8.56	3.22	1,003,000
1989	1,199,000	1,347,547	28,735,306	30,479,811	3.93	4.42	2,073,000
1990	1,087,000	1,090,710	33,523,127	34,869,422	3.12	3.13	2,371,000
1991[d]	1,573,000	1,215,658	25,821,180	27,370,110	5.75	4.44	1,861,000
1992	1,959,000	2,046,022	31,879,676	34,337,532	5.71	5.96	2,335,000
1993	2,375,000	2,366,573	40,462,124	43,435,868	5.47	5.45	2,954,000
1994	2,938,000	1,001,250	35,224,050	36,685,313	8.01	2.73	2,495,000
1995	2,987,000	1,451,490	44,266,217	46,371,538	6.44	3.13	3,153,000
1996[e]	2,564,000	572,495	29,650,300	30,679,270	8.36	1.87	2,086,000

[a] Salmon numbers exclude test fish harvests.

[b] These values were calculated by adding the actual Bristol Bay sockeye harvest and the South Unimak-Shumagin Islands June sockeye harvest together and determining or applying the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

[c] The 1980 Bristol Bay sockeye catch would have been much larger had it not been for a lengthy strike.

[d] Sockeye allocations were not reached largely, if not totally, due to a chum cap.

[e] Bristol Bay harvest numbers are preliminary.

Appendix B.9. Shumagin Islands June fishery, sockeye allocations vs. actual harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-96.

Year	Shumagin Islands Guideline Harvest Level (GHL)	Actual Shumagin Is. Harvest	Actual Bristol Bay Harvest	Combined Bristol Bay & S. Unimak-Shumagin Harvest	Shumagin GHL % of Combined Bristol Bay & S. Unimak-Shumagin Harvest[a]	Shumagin Is. Harvest % of Combined Bristol Bay-S. Unimak Harvest[b]	Shumagin Is. GHL if Actual Bristol Bay Harvest Was Forecasted[b]
1975	50,000	49,325	4,898,814	5,138,913	0.97	0.96	77,000
1976	75,000	72,016	5,619,292	5,924,519	1.27	1.22	89,000
1977	42,000	45,912	4,877,880	5,119,472	0.82	0.9	77,000
1978	94,000	67,876	9,928,139	10,414,974	0.9	0.65	156,000
1979	200,000	179,139	21,428,606	22,280,038	0.9	0.8	334,000
1980[c]	555,000	475,127	23,761,746	26,968,021	2.06	1.76	405,000
1981	318,000	350,572	25,603,081	27,424,216	1.16	1.28	411,000
1982	408,000	450,548	15,104,391	17,223,092	2.37	2.62	258,000
1983	324,000	416,494	37,372,031	39,335,894	0.82	1.06	590,000
1984	245,000	256,838	24,710,306	26,098,509	0.94	0.98	391,000
1985	305,000	336,431	23,702,883	25,494,283	1.2	1.32	382,000
1986[d]	200,000	156,027	15,776,056	16,247,453	1.23	0.96	244,000
1987	140,000	140,567	16,068,775	16,862,878	0.83	0.83	253,000
1988[d]	279,000	282,230	13,989,757	14,746,444	1.89	1.91	221,000
1989	264,000	396,958	28,735,306	30,479,811	0.87	1.3	457,000
1990	240,000	255,585	33,523,127	34,869,422	0.69	0.73	523,000
1991[d]	347,000	333,272	25,821,180	27,370,110	1.27	1.22	411,000
1992	432,000	411,834	31,879,676	34,337,532	1.26	1.2	515,000
1993	524,000	607,171	40,462,124	43,435,868	1.21	1.4	652,000
1994	648,000	460,013	35,224,050	36,685,313	1.77	1.25	550,000
1995[e]	659,000	653,831	44,266,217	46,371,538	1.42	1.41	696,000
1996[e]	566,000	456,475	29,650,300	30,679,270	1.84	1.49	460,000

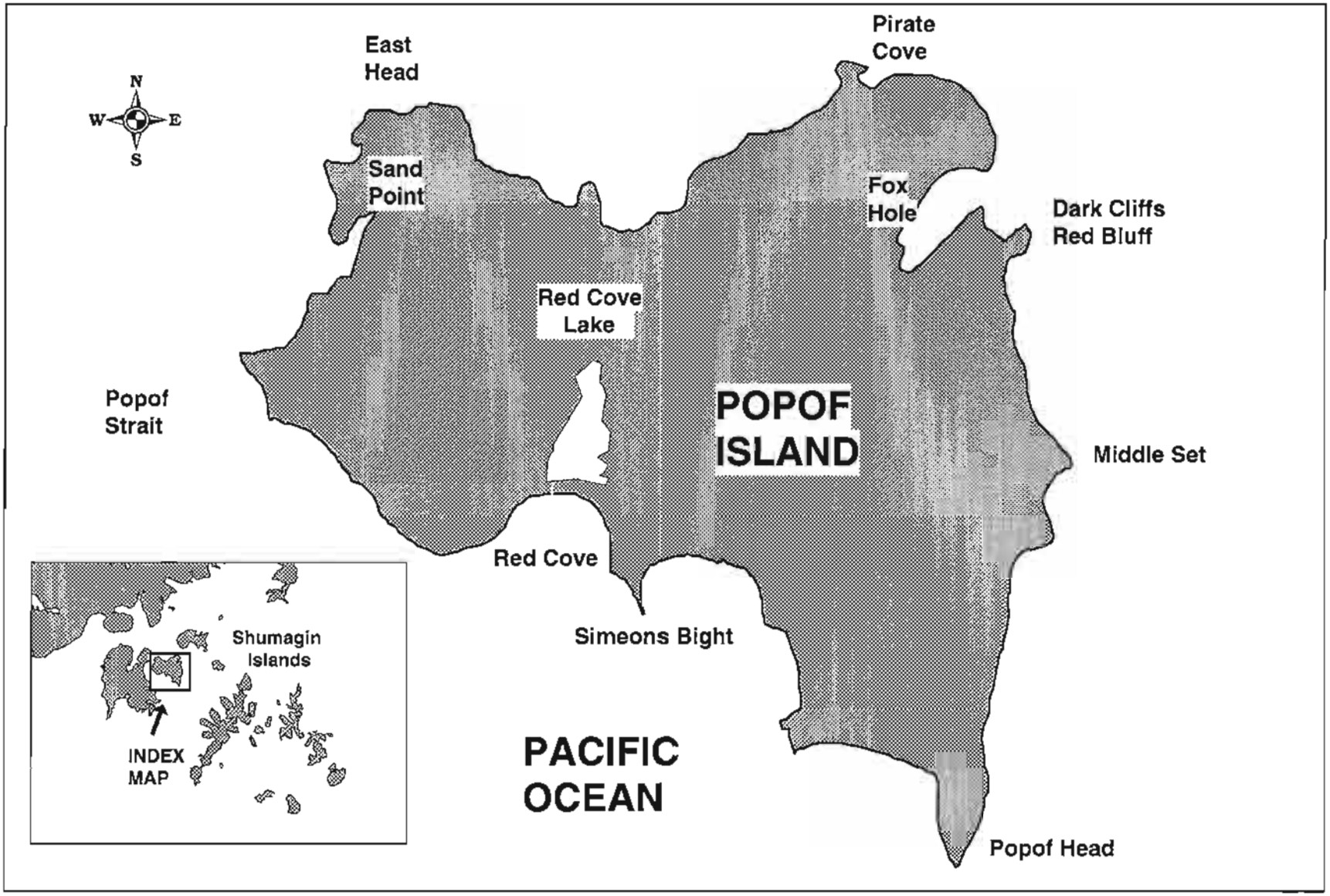
[a] Salmon numbers exclude test fish harvests.

[b] These values were calculated by adding the actual Bristol Bay sockeye harvest and the South Unimak-Shumagin Islands June sockeye harvest together and determining or applying the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

[c] The 1980 Bristol Bay sockeye catch would have been much larger had it not been for a lengthy strike.

[d] Sockeye allocations were not reached largely, if not totally, due to a chum cap.

[e] Bristol Bay harvest numbers are preliminary.



Appendix B.10. Map of Popof Island with the test fishing sites at Popof Head, Middle Set, and Red Bluff shown.

Appendix B.11. South Unimak and Shumagin Islands June fisheries, number of fishing days and hours by year, 1975- 96[a].

	South Unimak		Shumagin Islands	
Year	Days	Hours	Days	Hours
1975	10	240	9	207
1976[b]	19	456	13	312
1977	17	408	11	264
1978	23	552	23	552
1979[c]	33	786	27	642
1980	30	720	30	720
1981	24	576	22	528
1982	30	720	24	576
1983	11	264	10	228
1984	5	110	6	134
1985	9	144	9	140
1986	8	148	8	160
1987	12	224	6	92
1988	8	112	9	153
1989	5	84	4	72
1990	13	281	9	200
1991	8	161	5	88
1992	8	139	5	38.5
1993	10	176	8	140
1994	14	262	13	265
1995	18	366	17	339
1996	16	372	13	276
Average 1986-95	10.4	195.3	8.4	154.8

[a] Figures are for fishing time allowed for seine and/or drift gillnet gear. After 1992, set gillnet gear was guaranteed 16 hours per fishing period if other gear types were restricted to less than 16 hours due to concerns for exceeding the chum salmon cap.

[b] In 1976, the South Unimak fishery was extended through July 1 to compensate for fishing time lost at the end of June due to adverse weather conditions.

[c] In 1979, the South Unimak fishery was extended through July 3 to compensate for lost fishing time at the end of June due to adverse weather conditions.

Appendix B.12. South Unimak June test fishery salmon catches by date and species, 1996.

Location/ Date	Number of sets	Number of Salmon					Ratio Sockeye to 1 Chum
		Chinook	Sockeye	Coho	Pink	Chum	
Cape Pankof							
June 7	1	1	5	0	26	4	1.25
	Average Per Set	1.0	5.0	0.0	26.0	4.0	
	Catch Composition by %	2.8	13.9	0.0	72.2	11.1	
Cape Lazaref							
June 8[a]	5	0	3	0	48	34	0.09
	Average Per Set	0.0	0.6	0.0	9.6	6.8	
	Catch Composition by %	0.0	3.5	0.0	56.5	40.0	
June 9[a]	Vessel did not fish due to mechanical breakdown.	0	0	0	0	0	0.00
Cape Lutke							
June 10[a,c]	1	0	45	0	78	48	0.94
	Average Per Set	0.0	45.0	0.0	78.0	48.0	
	Catch Composition by %	0.0	26.3	0.0	45.6	28.1	
June 11[a]	Vessel did not fish due to mechanical breakdown.	0	0	0	0	0	0.00
Cape Lutke							
June 12[b]	4	5	553	0	322	1,219	0.45
	Average Per Set	1.3	138.3	0.0	80.5	304.8	
	Catch Composition by %	0.2	26.3	0.0	15.3	58.1	
Cape Lutke							
June 13	8	62	3,003	0	1,435	1,359	2.21
	Average Per Set	7.8	375.4	0.0	179.4	169.9	
	Catch Composition by %	1.1	51.3	0.0	24.5	23.2	
Cape Lazaref							
June 14	4	12	2,446	0	685	1,586	1.54
	Average Per Set	3.0	611.5	0.0	171.3	396.5	
	Catch Composition by %	0.3	51.7	0.0	14.5	33.5	

[a] Strong NW winds continue.

[b] Strong NW winds curtail test fish efforts.

[c] Test fishing suspended after crew member suffered a heart attack.

Appendix B.13 Shumagin Islands Section June test fishery salmon catches by date and species, 1996.

Date	Number of Sets	Number of Adult Salmon					Total	Sockeye to Chum Ratio
		Chinook	Sockeye	Coho	Pink	Chum		
5-Jun	5	62	271	0	193	1,052	1,578	0.26 to 1.0
6-Jun	5	20	332	0	205	339	896	0.98 to 1.0
7-Jun	5	5	194	0	342	63	604	3.08 to 1.0
8-Jun	5	9	200	0	233	59	501	3.39 to 1.0
9-Jun	5	25	805	0	811	2,273	3,914	0.35 to 1.0
10-Jun	5	46	711	0	837	1,355	2,949	0.52 to 1.0
11-Jun	5	20	596	0	634	854	2,104	0.70 to 1.0
12-Jun	5	11	396	0	628	415	1,450	0.95 to 1.0
13-Jun	5	28	1,506	0	1,425	1,873	4,832	0.80 to 1.0
14-Jun	5	15	663	0	1,186	1,391	3,255	0.48 to 1.0
15-Jun	5	24	916	0	1,556	1,209	3,705	0.76 to 1.0
16-Jun	5	4	487	0	303	726	1,520	0.67 to 1.0
Total	60	269	7,077	0	8,353	11,609	27,308	0.61 to 1.0

Note: Test fishing is standardized to purse seine gear, conducting 20 minute sets at Popof Head, Middle Set, and Red Bluff located on Popof Island, additional sets are made if time allows.

Appendix B.14. South Unimak and Shumagin Islands commercial sockeye and chum salmon harvests, all gear combined, by day, 1996.

	South Unimak		Shumagin Islands		Combined	
	Sockeye	Chum	Sockeye	Chum	Sockeye	Chum
June 1-14			Closed to Commercial Salmon Fishing			
15	61,047	12,692	CLOSED		61,047	12,692
16	6,395	1,269	CLOSED		6,395	1,269
17	70,819	8,902	CLOSED		70,819	8,902
18	56,077	9,873	32,660	14,656	88,737	24,529
19	59,847	14,289	60,362	36,408	120,209	50,697
20	62,931	14,399	47,141	17,430	110,072	31,829
21	65,745	15,088	66,237	31,848	131,982	46,936
22	63,187	16,640	65,898	41,325	129,085	57,965
23	2,044	191	28,934	20,681	30,978	20,872
24	21,998	2,813	31,174	15,046	53,172	17,859
25	9,738	1,908	16,268	7,212	26,006	9,120
26	17,819	6,495	25,096	9,124	42,915	15,619
27	26,214	7,501	22,991	9,646	49,205	17,147
28	18,772	5,005	24,992	9,174	43,764	14,179
29	15,548	4,634	16,463	5,108	32,011	9,742
30	14,314	8,190	18,259	12,273	32,573	20,463
Total	572,495	129,889	456,475	229,931	1,028,970	359,820

Appendix B.15. South Unimak June commercial salmon harvest, all gear combined, by day, 1996.

Catch Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	188	190	251	61,047	347	30,947	12,692	105,284
16-Jun	23	24	29	6,395	0	3,485	1,269	11,178
17-Jun	171	175	127	70,819	69	26,995	8,902	106,912
18-Jun	176	197	116	56,077	28	23,079	9,873	89,173
19-Jun	178	185	125	59,847	20	14,592	14,289	88,873
20-Jun	180	187	153	62,931	28	17,169	14,399	94,680
21-Jun	172	179	117	65,745	47	8,951	15,088	89,948
22-Jun	158	170	54	63,187	27	7,278	16,640	87,186
23-Jun	11	11	0	2,044	0	223	191	2,458
24-Jun	45	45	28	21,998	11	3,719	2,813	28,569
25-Jun	31	32	16	9,738	23	861	1,908	12,546
26-Jun	109	113	48	17,819	611	2,610	6,495	27,583
27-Jun	102	107	96	26,214	1,502	3,491	7,501	38,804
28-Jun	71	77	17	18,772	1,845	2,058	5,005	27,697
29-Jun	48	54	32	15,548	3,278	674	4,634	24,166
30-Jun	42	51	19	14,314	3,894	667	1,963	20,857
Total	230	1,797	1,228	572,495	11,730	146,799	123,662	855,914

Appendix B.16. Shumagin Islands Section commercial salmon harvest, all gear combined, by day, 1996.

Catch Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
18-Jun	46	51	71	32,660	0	13,145	14,656	60,532
19-Jun	44	54	185	60,362	0	31,104	36,408	128,059
20-Jun	47	54	142	47,141	6	23,537	17,430	88,256
21-Jun	63	73	277	66,237	1	32,976	31,848	131,339
22-Jun	81	102	193	65,898	9	35,723	41,325	143,148
23-Jun	54	57	50	28,934	5	12,011	20,681	61,681
24-Jun	62	72	165	31,174	18	12,546	15,046	58,949
25-Jun	36	39	79	16,268	26	7,019	7,212	30,604
26-Jun	71	80	120	25,096	65	10,340	9,124	44,745
27-Jun	75	79	138	22,991	83	13,005	9,646	45,863
28-Jun	78	85	86	24,992	289	15,165	9,174	49,706
29-Jun	57	62	59	16,463	456	10,277	5,108	32,363
30-Jun	56	71	52	18,259	531	14,037	12,273	45,152
18-Jul [a]	*	*	*	*	*	*	*	*
20-Jul	74	77	211	6,323	20,462	28,040	14,295	69,331
21-Jul	77	92	171	9,624	28,223	50,457	16,359	104,834
22-Jul	79	96	192	12,365	32,420	54,778	13,240	112,995
25-Jul	61	74	219	10,234	29,045	73,906	16,155	129,559
26-Jul	59	74	276	17,091	21,215	94,208	19,259	152,049
28-Jul	30	30	51	4,171	6,971	41,459	9,602	62,254
29-Jul	41	48	99	10,557	20,668	68,830	11,079	111,233
30-Jul	51	61	87	6,601	13,887	80,843	7,939	109,357
2-Aug	49	54	120	4,081	9,734	75,521	7,497	96,953
3-Aug	56	64	80	4,390	9,709	83,376	11,345	108,900
6-Aug	37	46	22	1,742	1,688	16,662	2,930	23,044
7-Aug	48	62	36	2,334	2,828	34,024	3,734	42,956
1-Sep	9	11	0	316	470	29	100	915
2-Sep	10	15	1	703	579	0	143	1,426
3-Sep	7	12	0	843	868	0	159	1,870
6-Sep	7	7	0	234	247	0	55	536
7-Sep	5	6	0	428	228	0	39	695
10-Sep	6	6	0	333	223	2	6	564
11-Sep	7	11	0	466	311	0	17	794
12-Sep [a]	*	*	*	*	*	*	*	*
13-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*
20-Sep [a]	*	*	*	*	*	*	*	*
Total	121	1,731	3,195	549,636	204,493	934,294	364,711	2,056,329
June	111	879	1,617	456,475	1,489	230,885	229,931	920,397

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix B.17. South Unimak June commercial purse seine salmon harvest by day,1996.

Catch Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	43	43	158	24,168	0	28,545	6,433	59,304
16-Jun	7	7	17	1,861	0	3,121	914	5,913
17-Jun	39	39	80	19,557	6	25,418	3,596	48,657
18-Jun	34	38	41	13,510	0	21,029	2,885	37,465
19-Jun	32	32	31	10,177	1	12,802	3,885	26,896
20-Jun	45	47	70	17,780	0	16,040	6,021	39,911
21-Jun	30	30	29	12,738	1	7,033	3,772	23,573
22-Jun	25	25	18	9,271	1	5,921	6,150	21,361
23-Jun [a]	*	*	*	*	*	*	*	*
24-Jun	12	12	20	9,908	2	3,558	1,533	15,021
25-Jun	4	4	2	2,138	1	722	492	3,355
26-Jun	16	16	4	1,947	10	2,259	2,259	6,479
27-Jun	8	8	41	3,657	41	2,637	1,930	8,306
28-Jun	4	4	0	272	19	894	452	1,637
29-Jun [a]	*	*	*	*	*	*	*	*
30-Jun [a]	*	*	*	*	*	*	*	*
Total	64	307	511	127,366	135	130,278	41,416	299,706

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix B.18. South Unimak and Shumagin Islands June fisheries, composition of commercial sockeye and chum salmon harvests in percent by gear type, 1970-96.

	South Unimak						Shumagin Islands			
	Sockeye			Chum			Sockeye		Chum	
Year	Purse Seine	Drift Gillnet	Set Gillnet	Purse Seine	Drift Gillnet	Set Gillnet	Purse Seine	Set Gillnet	Purse Seine	Set Gillnet
1970	47.5	52	0.5	31.8	68	0.2	92	8	94.1	5.9
1971	25.3	74.7	0	19.5	80.5	0	89.4	10.6	96.8	3.2
1972	12.5	87.5	0	9.3	90.7	0	96.9	3.1	98.5	1.5
1973	9.6	90	0.4	6.6	93.3	0.1	87.3	12.7	94.3	5.7
1974	0	0	0	0	0	0	0	0	0	0
1975	22.9	77	0.1	28.9	71.1	0	97.5	2.5	97.4	2.6
1976	17.3	81.6	1.1	14.2	85.7	0.1	95.5	4.5	97.1	2.9
1977	15.2	83.9	0.9	10.5	89.2	0.3	94.9	5.1	99	1
1978	18.4	81	0.6	9.9	90	0.1	97	3	96.3	3.7
1979	70.6	29.2	0.2	30.1	69.8	0.2	92.4	7.6	95.7	4.3
1980	76.4	23.1	0.5	79.2	20.7	0.1	96.4	3.6	97.3	2.7
1981	50.7	47.1	2.2	63.5	36.2	0.3	94.8	5.2	98.7	1.3
1982	54.1	44.7	1.2	46.1	53.7	0.2	97.3	2.7	98.9	1.1
1983	60.4	38.7	0.9	65.8	34	0.1	97.4	2.6	99.6	0.4
1984	63.3	35.7	1	60.2	39.7	0.1	94.7	5.3	99.3	0.7
1985	61.3	38	0.7	38.7	61.1	0.2	94.8	5.2	96	4
1986	46.7	51.7	1.6	43.8	55.9	0.3	85	15	95	5
1987	36.5	61.4	2.2	38.3	61.1	0.7	76	24	93.4	6.6
1988	29.8	67	3.2	33.5	65.8	0.6	72.1	27.9	82.6	17.4
1989	59.4	38	2.5	52.1	47.3	0.7	90.9	9.1	93.6	6.4
1990[a]	56.8	41.5	1.7	57.9	41.7	0.4	85.3	14.7	93.1	6.9
1991[a]	53.5	44.4	2.1	61.2	38.2	0.6	80.6	19.4	93.3	6.7
1992[a]	58.3	37.4	4.3	63.2	35.6	1.2	90.9	9.1	96.3	3.7
1993[a]	59.1	38.1	2.8	66.2	31.6	2.2	87.5	12.5	97.9	2.1
1994[a]	57.3	37.1	5.7	63.9	34.6	1.5	75.4	24.6	96.5	3.5
1995[a]	42.1	54.6	3.3	47.1	50.5	2.4	81.5	18.5	93.7	6.3
1996[a]	22.2	73.7	4.1	32	66.3	1.7	75	25	95.9	4.1
1970-79 Average	23.9	65.7	0.4	16.1	73.8	0.1	84.3	5.7	86.9	3.1
1980-89 Average	53.9	44.5	1.6	52.1	47.6	0.3	89.9	10.1	95.4	4.6
1990-95 Average	54.5	42.2	3.3	59.9	38.7	1.4	83.5	16.5	95.1	4.9

[a] Gear depth limitations in effect.

Appendix B.19. South Unimak June commercial drift gillnet harvest by day, 1996.

Catch Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	133	135	81	35,285	13	2,205	6,093	43,677
16-Jun	12	13	12	4,172	0	260	324	4,768
17-Jun	121	122	45	48,261	62	1,540	5,074	54,982
18-Jun	127	140	69	38,989	23	1,886	6,794	47,761
19-Jun	133	138	90	46,128	18	1,679	10,167	58,082
20-Jun	124	129	81	43,662	28	1,118	8,246	53,135
21-Jun	128	134	80	50,173	45	1,884	11,094	63,276
22-Jun	123	135	36	52,881	26	1,350	10,429	64,722
23-Jun	7	7	0	1,322	0	212	158	1,692
24-Jun	30	30	8	11,596	9	159	1,268	13,040
25-Jun	26	27	14	7,513	22	139	1,416	9,104
26-Jun	87	91	42	15,383	601	341	4,159	20,526
27-Jun	89	92	48	21,169	1,405	802	5,243	28,667
28-Jun	62	67	17	16,923	1,622	1,083	4,138	23,783
29-Jun	45	50	32	14,996	3,197	532	4,478	23,235
30-Jun	39	48	19	13,429	3,830	428	7,022	24,728
Total	147	1,358	674	421,882	10,901	15,618	86,103	535,178

Appendix B.20. South Unimak June commercial set gillnet salmon harvest by day, 1996.

Catch Date	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
15-Jun	12	12	12	1,594	334	197	166	2,303
16-Jun	4	4	0	362	0	104	31	497
17-Jun	11	14	2	3,001	1	37	132	3,173
18-Jun	15	19	6	3,578	5	164	194	3,947
19-Jun	13	15	4	3,542	1	111	237	3,895
20-Jun	11	11	2	1,489	0	11	132	1,634
21-Jun	14	15	8	2,834	1	34	222	3,099
22-Jun	10	10	0	1,035	0	7	61	1,103
23-Jun	4	4	0	722	0	11	33	766
24-Jun [a]	*	*	*	*	*	*	*	*
25-Jun [a]	*	*	*	*	*	*	*	*
26-Jun	6	6	2	489	0	10	77	578
27-Jun	5	7	7	1,388	56	52	328	1,831
28-Jun	5	6	0	1,577	204	81	415	2,277
29-Jun [a]	*	*	*	*	*	*	*	*
30-Jun [a]	*	*	*	*	*	*	*	*
Total	19	132	43	23,247	694	903	2,270	27,157

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix B.21. Shumagin Islands Section commercial purse seine salmon harvest by day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
18-Jun	37	37	65	27,737	0	13,084	13,914	54,800
19-Jun	34	34	178	49,497	0	31,065	35,145	115,885
20-Jun	34	34	140	38,505	6	23,528	16,939	79,118
21-Jun	42	43	266	55,043	1	32,963	31,307	119,580
22-Jun	47	47	188	53,096	5	35,667	40,504	129,460
23-Jun	28	28	45	20,825	3	11,991	20,198	53,062
24-Jun	41	42	161	25,017	12	12,494	14,487	52,171
25-Jun	19	19	79	11,957	25	7,005	6,996	26,062
26-Jun	43	43	111	18,221	64	10,287	8,585	37,268
27-Jun	44	44	136	11,921	51	12,960	8,634	33,702
28-Jun	38	39	80	12,473	251	15,096	7,926	35,826
29-Jun	21	21	44	8,496	388	10,177	4,350	23,455
30-Jun	22	22	39	9,529	476	13,877	11,464	35,385
18-Jul [a]	*	*	*	*	*	*	*	*
20-Jul	37	37	201	1,695	19,461	20,310	12,087	53,754
21-Jul	48	48	162	3,748	27,107	42,042	14,165	87,224
22-Jul	48	49	172	5,802	31,308	49,198	11,183	97,663
25-Jul	37	37	201	5,830	26,968	68,215	14,301	115,515
26-Jul	37	37	265	7,753	20,296	81,971	16,850	127,135
28-Jul	19	19	51	2,839	6,841	39,905	9,311	58,947
29-Jul	25	25	97	5,654	20,275	61,453	9,703	97,182
30-Jul	32	32	86	3,503	13,116	73,768	6,750	97,223
2-Aug	28	28	119	2,220	9,212	67,919	6,537	86,007
3-Aug	36	36	77	2,125	8,866	73,366	9,752	94,186
6-Aug	14	14	20	329	1,234	10,895	1,362	13,840
7-Aug	25	25	35	704	2,126	26,955	2,066	31,886
1-Sep [a]	*	*	*	*	*	*	*	*
2-Sep [a]	*	*	*	*	*	*	*	*
6-Sep [a]	*	*	*	*	*	*	*	*
Total	65	845	3,031	384,749	190,864	847,465	335,394	1,761,503
June Total	62	453	1,532	342,317	1,282	230,194	220,449	795,774

[a] Confidentiality prohibits reporting harvest by day.

Appendix B.22. Shumagin Islands Section commercial set gillnet salmon harvest by day, 1996.

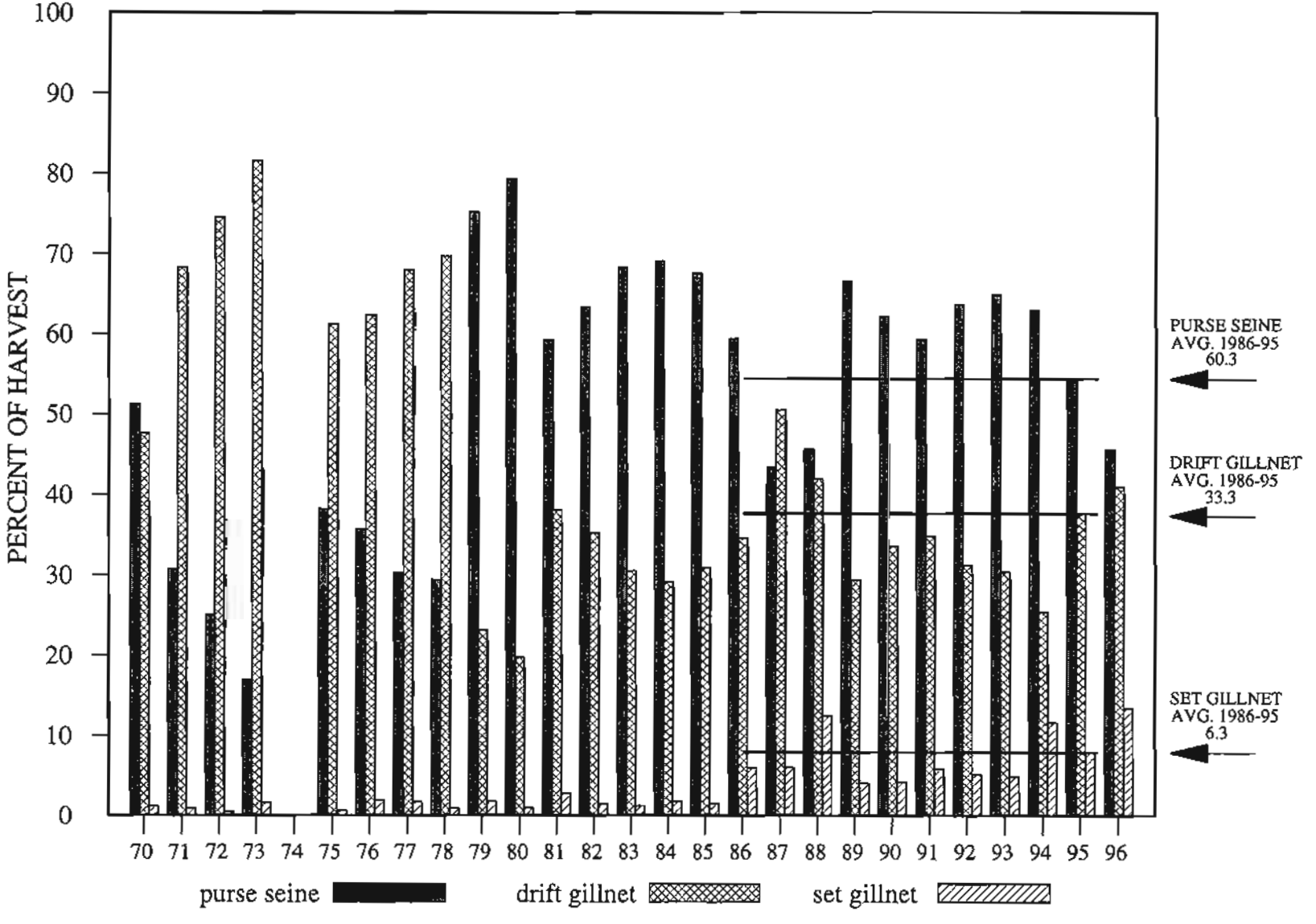
			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
18-Jun	9	14	6	4,923	0	61	742	5,732
19-Jun	10	20	7	10,865	0	39	1,263	12,174
20-Jun	13	20	2	8,636	0	9	491	9,138
21-Jun	21	30	11	11,194	0	13	541	11,759
22-Jun	34	55	5	12,802	4	56	821	13,688
23-Jun	26	29	5	8,109	2	20	483	8,619
24-Jun	21	30	4	6,157	6	52	559	6,778
25-Jun	17	20	0	4,311	1	14	216	4,542
26-Jun	28	37	9	6,875	1	53	539	7,477
27-Jun	31	35	2	11,070	32	45	1,012	12,161
28-Jun	40	46	6	12,519	38	69	1,248	13,880
29-Jun	36	41	15	7,967	68	100	758	8,908
30-Jun	34	49	13	8,730	55	160	809	9,767
20-Jul	37	40	10	4,628	1,001	7,730	2,208	15,577
21-Jul	29	44	9	5,876	1,116	8,415	2,194	17,610
22-Jul	31	47	20	6,563	1,112	5,580	2,057	15,332
25-Jul	24	37	18	4,404	2,077	5,691	1,854	14,044
26-Jul	22	37	11	9,338	919	12,237	2,409	24,914
28-Jul	11	11	0	1,332	130	1,554	291	3,307
29-Jul	16	23	2	4,903	393	7,377	1,376	14,051
30-Jul	19	29	1	3,098	771	7,075	1,189	12,134
2-Aug	21	26	1	1,861	522	7,602	960	10,946
3-Aug	20	28	3	2,265	843	10,010	1,593	14,714
6-Aug	23	32	2	1,413	454	5,767	1,568	9,204
7-Aug	23	37	1	1,630	702	7,069	1,668	11,070
1-Sep	7	9	0	287	385	29	80	781
2-Sep	9	14	1	690	524	0	126	1,341
3-Sep	7	12	0	843	868	0	159	1,870
6-Sep	6	6	0	226	143	0	33	402
7-Sep	5	6	0	428	228	0	39	695
10-Sep	6	6	0	333	223	2	6	564
11-Sep	7	11	0	466	311	0	17	794
12-Sep [a]	*	*	*	*	*	*	*	*
13-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*
20-Sep [a]	*	*	*	*	*	*	*	*
Total	56	886	164	164,887	13,629	86,829	29,317	294,826
June Total	49	426	85	114,158	207	691	9,482	124,623

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix B.23. South Unimak and Shumagin Islands June fisheries commercial sockeye salmon harvest by gear, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	845,597	51.2	785,174	47.6	19,363	1.2	1,650,134
1971	142,251	30.8	315,685	68.3	4,165	0.9	462,101
1972	125,242	25.0	373,618	74.5	2,337	0.5	501,197
1973	41,411	16.9	200,258	81.6	3,881	1.6	245,550
1974	0	0.0	0	0.0	0	0.0	0
1975	91,768	38.2	146,937	61.2	1,394	0.6	240,099
1976	109,089	35.7	190,256	62.3	5,882	1.9	305,227
1977	73,277	30.3	164,165	68.0	4,150	1.7	241,592
1978	143,047	29.4	339,295	69.7	4,493	0.9	486,835
1979	639,986	75.2	196,482	23.1	14,964	1.8	851,432
1980	2,544,107	79.3	631,975	19.7	30,193	0.9	3,206,275
1981	1,078,047	59.2	693,166	38.1	49,922	2.7	1,821,135
1982	1,341,224	63.3	745,616	35.2	31,861	1.5	2,118,701
1983	1,339,868	68.3	599,152	30.5	23,951	1.2	1,962,971
1984	959,821	69.1	403,582	29.1	24,800	1.8	1,388,203
1985	1,210,653	67.6	553,558	30.9	27,189	1.5	1,791,400
1986	279,960	59.4	162,950	34.6	28,487	6.0	471,397
1987	345,028	43.4	401,215	50.5	47,860	6.0	794,103
1988	344,801	45.6	317,818	42.0	94,068	12.4	756,687
1989	1,161,809	66.6	512,522	29.4	70,174	4.0	1,744,505
1990 [a]	837,635	62.2	452,484	33.6	56,176	4.2	1,346,295
1991 [a]	919,000	59.3	539,490	34.8	90,440	5.8	1,548,930
1992 [a]	1,566,460	63.7	765,752	31.2	125,644	5.1	2,457,856
1993 [a]	1,928,739	64.9	902,788	30.4	142,217	4.8	2,973,744
1994 [a]	920,170	63.0	371,103	25.4	169,990	11.6	1,461,263
1995 [a]	1,144,405	54.4	792,940	37.7	167,976	8.0	2,105,321
1996 [a]	469,683	45.6	421,882	41.0	137,405	13.4	1,028,970
1976-95 Average	944,356	63.3	486,815	32.6	60,522	4.1	1,491,694
1986-95 Average	944,801	60.3	521,906	33.3	99,303	6.3	1,566,010

[a] Gear depth limitations in effect.



Appedix B.24. South Unimak and Shumagin Islands June fisheries, composition of commercial sockeye salmon harvests in percent by gear type, 1970-96.

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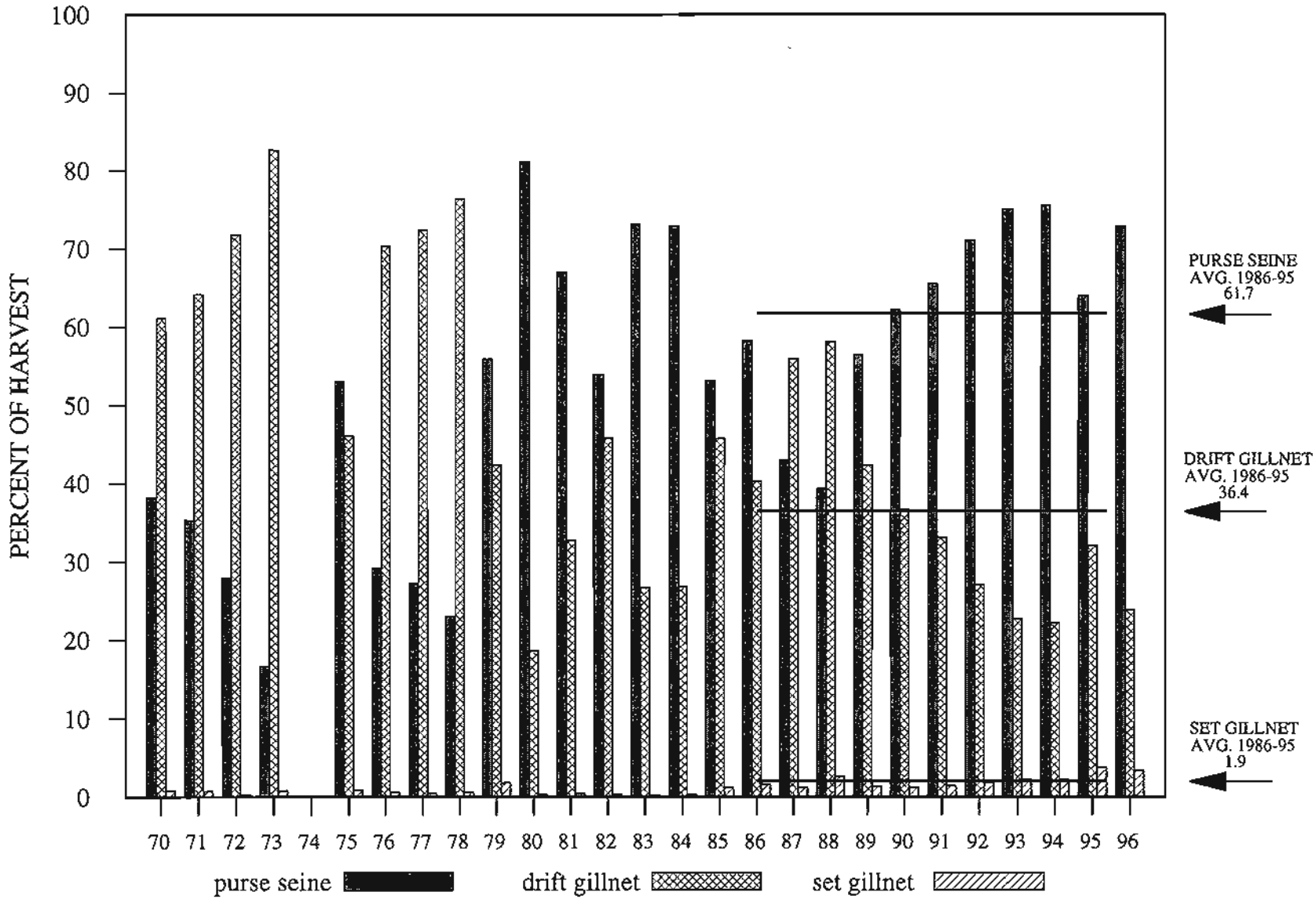
Appendix B.25. South Unimak and Shumagin Islands June fisheries commercial chum salmon harvest by gear, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	168,520	38.1	269,844	61.1	3,548	0.8	441,912
1971	179,588	35.3	326,267	64.1	3,342	0.7	509,197
1972	144,604	27.9	372,635	71.8	1,590	0.3	518,829
1973	33,351	16.6	165,753	82.6	1,526	0.8	200,630
1974	0	0.0	0	0.0	0	0.0	0
1975	53,447	53.0	46,447	46.1	928	0.9	100,822
1976	119,569	29.1	288,300	70.3	2,478	0.6	410,347
1977	31,530	27.2	84,052	72.4	532	0.5	116,114
1978	28,003	23.0	93,115	76.4	790	0.6	121,908
1979	58,203	55.9	44,051	42.3	1,852	1.8	104,106
1980	412,350	81.0	94,900	18.6	1,615	0.3	508,865
1981	377,168	66.9	184,586	32.7	2,228	0.4	563,982
1982	590,179	53.9	501,282	45.8	3,583	0.3	1,095,044
1983	574,300	73.1	209,600	26.7	1,546	0.2	785,446
1984	245,605	72.9	90,498	26.8	1,017	0.3	337,120
1985	230,432	53.1	198,361	45.7	5,036	1.2	433,829
1986	204,746	58.2	141,299	40.2	5,724	1.6	351,769
1987	190,064	42.9	247,934	55.9	5,143	1.2	443,141
1988	207,049	39.3	305,967	58.1	13,695	2.6	526,711
1989	256,808	56.4	192,650	42.3	5,705	1.3	455,163
1990	322,701	62.2	190,002	36.6	6,036	1.2	518,739
1991	505,790	65.5	256,132	33.1	10,783	1.4	772,705
1992	303,226	71.1	115,401	27.1	7,576	1.8	426,203
1993	399,958	75.1	120,820	22.7	11,469	2.2	532,247
1994	439,863	75.6	129,530	22.2	12,772	2.2	582,165
1995	344,093	64.0	172,715	32.1	20,625	3.8	537,433
1996	261,965	72.8	86,103	23.9	11,752	3.3	359,820
1976-95 Average							
	292,082	60.7	183,060	38.0	6,010	1.2	481,152
1986-95 Average							
	317,430	61.7	187,245	36.4	9,953	1.9	514,628



Appendix B.26. South Unimak and Shumagin Islands June fisheries, composition of commercial chum salmon harvests by gear type, 1970-96.

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Appendix B.27. South Unimak and Shumagin Islands June fisheries, sockeye to chum salmon ratios, from commercial harvests, all gear combined, 1960-96.

	South Unimak			Shumagin Islands			Total		
Year	Sockeye	Chum	Ratio	Sockeye	Chum	Ratio	Sockeye	Chum	Ratio
1960	137,000	84,000	1.63	19,000	11,000	1.73	156,000	95,000	1.64
1961	199,000	157,000	1.27	55,000	36,000	1.53	254,000	193,000	1.32
1962	272,000	209,000	1.30	54,000	61,000	0.89	326,000	270,000	1.21
1963	116,000	36,000	3.22	33,000	36,000	0.92	149,000	72,000	2.07
1964	159,000	161,000	0.99	85,000	67,000	1.27	244,000	228,000	1.07
1965	568,000	121,000	4.69	207,000	45,000	4.60	775,000	166,000	4.67
1966	528,000	215,000	2.46	54,000	17,000	3.18	582,000	232,000	2.51
1967	186,000	73,000	2.55	69,000	51,000	1.35	255,000	124,000	2.06
1968	342,000	115,000	2.97	233,000	51,000	4.57	575,000	166,000	3.46
1969	781,000	254,000	3.07	76,000	13,000	5.85	857,000	267,000	3.21
1970	1,510,399	397,003	3.80	139,543	44,896	3.11	1,649,942	441,899	3.73
1971	422,760	405,311	1.04	39,341	103,886	0.38	462,101	509,197	0.91
1972	426,799	411,019	1.04	74,398	107,810	0.69	501,197	518,829	0.97
1973	222,586	177,720	1.25	22,964	22,910	1.00	245,550	200,630	1.22
1974	0	0		0	0		0	0	
1975	190,774	65,279	2.92	49,306	35,542	1.39	240,080	100,821	2.38
1976	233,211	336,238	0.69	72,016	74,109	0.97	305,227	410,347	0.74
1977	195,680	94,215	2.08	45,912	21,899	2.10	241,592	116,114	2.08
1978	418,959	103,429	4.05	67,876	18,479	3.67	486,835	121,908	3.99
1979	672,293	63,153	10.65	179,139	40,953	4.37	851,432	104,106	8.18
1980	2,731,148	458,499	5.96	475,127	50,366	9.43	3,206,275	508,865	6.30
1981	1,470,563	509,911	2.88	350,572	54,071	6.48	1,821,135	563,982	3.23
1982	1,668,153	933,728	1.79	439,230	164,975	2.66	2,107,383	1,098,703	1.92
1983	1,547,369	616,390	2.51	416,494	169,277	2.46	1,963,863	785,667	2.50
1984	1,131,365	227,913	4.96	256,838	109,207	2.35	1,388,203	337,120	4.12
1985	1,454,969	324,825	4.48	336,431	109,004	3.09	1,791,400	433,829	4.13
1986	315,370	252,721	1.25	156,027	99,048	1.58	471,397	351,769	1.34
1987	653,536	406,077	1.61	140,567	37,064	3.79	794,103	443,141	1.79
1988	474,457	464,765	1.02	282,230	61,946	4.56	756,687	526,711	1.44
1989	1,347,547	407,635	3.31	396,958	47,528	8.35	1,744,505	455,163	3.83
1990	1,090,710	455,238	2.40	255,585	63,501	4.02	1,346,295	518,739	2.60
1991	1,216,035	670,409	1.81	333,272	102,602	3.25	1,549,307	773,011	2.00
1992	2,046,022	323,891	6.32	411,834	102,312	4.03	2,457,856	426,203	5.77
1993	2,366,573	381,941	6.20	607,171	150,306	4.04	2,973,744	532,247	5.59
1994	1,001,250	374,409	2.67	460,013	207,756	2.21	1,461,263	582,165	2.51
1995	1,451,490	342,307	4.24	653,831	195,126	3.35	2,105,321	537,433	3.92
1996	572,495	129,889	4.41	456,475	229,931	1.99	1,028,970	359,820	2.86
1976-95 Average									
	1,174,335	387,385	3.03	316,856	93,976	3.37	1,491,191	481,361	3.10
1986-95 Average									
	1,196,299	407,939	2.93	369,749	106,719	3.46	1,566,048	514,658	3.04

Appendix B.28. South Unimak and Shumagin Islands June fisheries, sockeye per chum salmon ratios, from commercial harvests, by gear type, 1970-96.

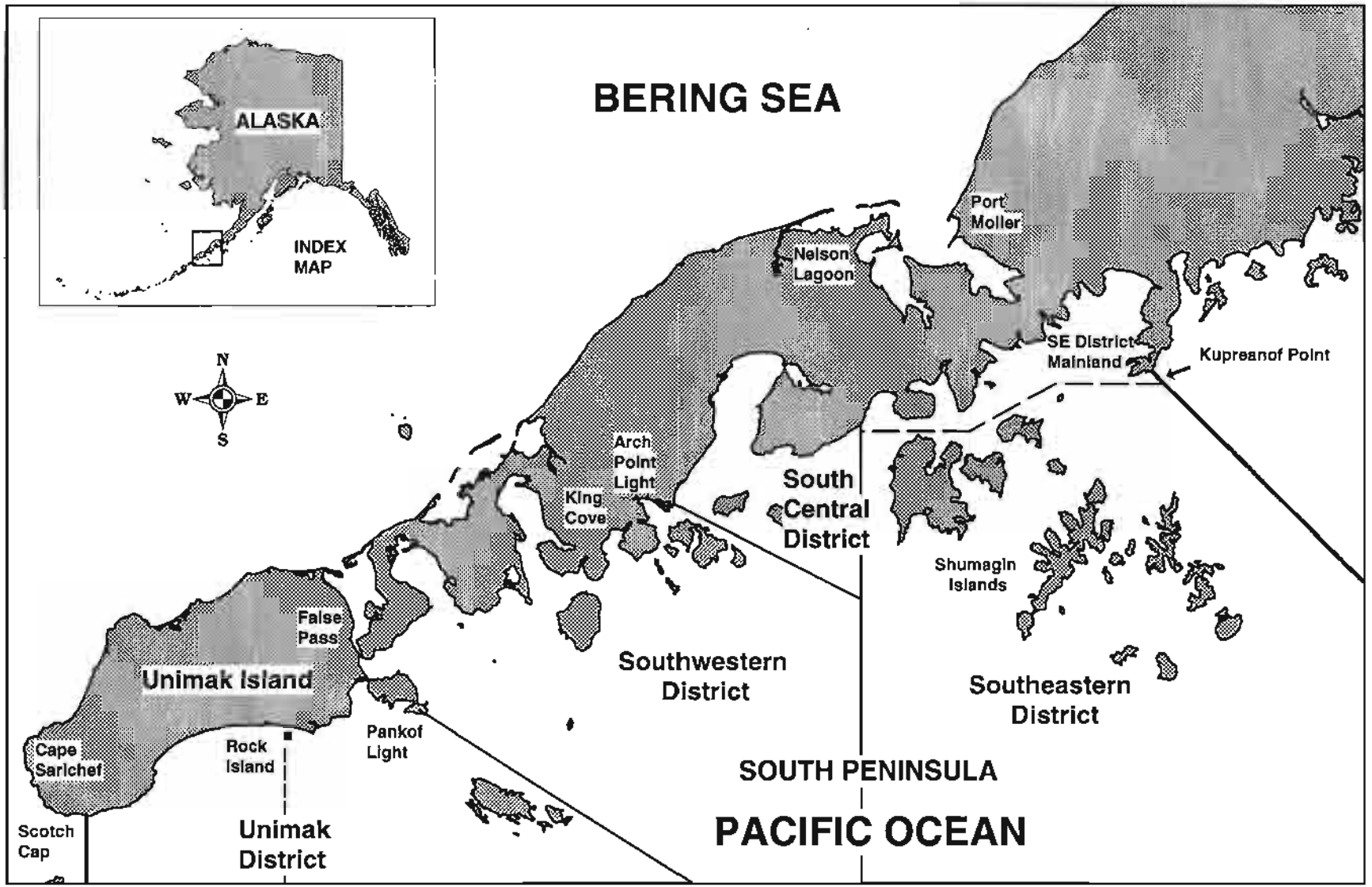
	South Unimak				Shumagin Islands		
Year	Purse Seine	Drift Gillnet	Set Gillnet	Total	Purse Seine	Set Gillnet	Total
1970	5.7	2.9	9.4	3.8	3	4.2	3.1
1971	1.4	1	0	1	0.3	0	0.4
1972	1.4	1	0.4	1	0.7	1.5	0.7
1973	1.8	1.2	4.4	1.3	0.9	2.2	1
1974	0	0	0	0	0	0	0
1975	2.3	3.2	0	2.9	1.4	0	1.4
1976	0.8	0.7	8.3	0.7	1	1.5	1
1977	3	2	5.8	2.1	2	10.6	2.1
1978	7.6	3.6	23.5	4.1	3.7	3	3.7
1979	25	4.5	15.1	10.6	4.2	7.7	4.4
1980	5.7	6.7	55	6	9.4	12.4	9.4
1981	2.3	3.8	21	2.9	6.2	25.4	6.5
1982	2.1	1.5	11.1	1.8	2.7	6.7	2.8
1983	2.3	2.9	14.9	2.5	2.4	16.3	2.5
1984	5.2	4.5	36.4	5	2.2	19.2	2.4
1985	7.1	2.8	14.8	4.5	3	4	3.1
1986	1.3	1.2	6.7	1.2	1.4	4.7	1.6
1987	1.5	1.6	5.2	1.6	3.1	13.8	3.8
1988	0.9	1	5.2	1	4	7.3	4.6
1989	3.8	2.7	12.7	3.3	8.1	11.9	8.4
1990[a]	2.4	2.4	11.3	2.4	3.7	8.6	4
1991[a]	1.6	2.1	6.5	1.8	2.8	9.5	3.2
1992[a]	5.8	6.6	23.3	6.3	3.8	9.9	4
1993[a]	5.5	7.5	8	6.2	3.6	24.1	4
1994[a]	2.4	2.9	10.2	2.7	1.7	15.8	2.2
1995[a]	3.8	4.6	5.6	4.2	2.9	9.9	3.4
1996[a]	3.1	4.9	10.2	4.4	1.6	12	2
1976-95 Average	4.5	3.3	15.0	3.5	3.6	11.1	3.9
1986-95 Average	2.9	3.3	9.5	3.1	3.5	11.6	3.9

[a] Gear depth limitations in effect.

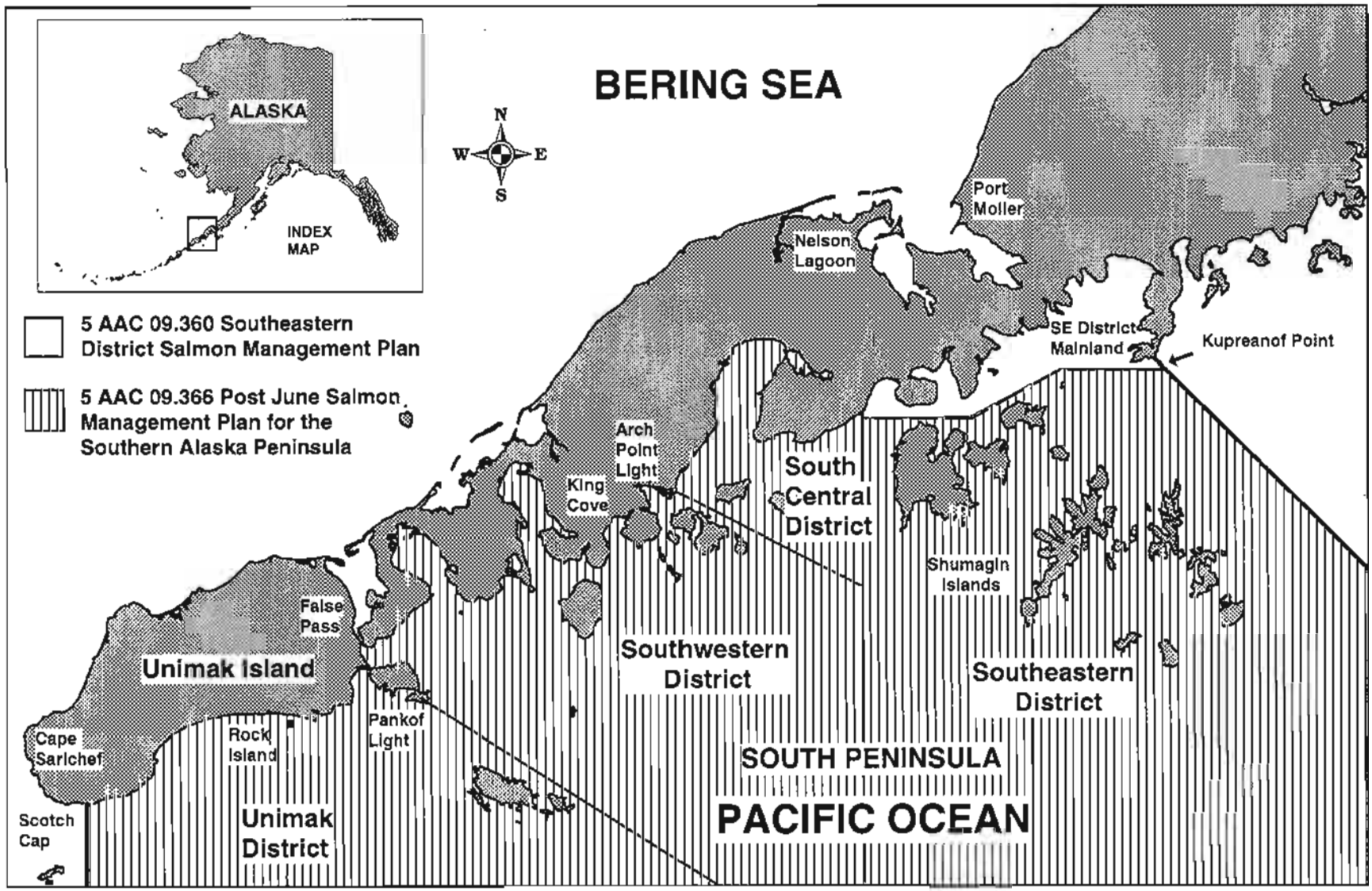
Appendix B.29. Number and types of commercial salmon gear in the South Unimak and Shumagin Islands Section waters during June, 1970-96.

	Gear			
Year	Purse Seine	Drift Gillnet	Set Gillnet	Total
1970	39	156	16	211
1971	37	122	8	167
1972	32	150	7	189
1973	16	121	7	144
1974	0	0	0	0
1975	20	81	8	109
1976	25	108	16	149
1977	17	101	13	131
1978	23	120	16	159
1979	40	132	26	198
1980	68	129	29	226
1981	83	135	25	243
1982	90	138	23	251
1983	100	146	35	281
1984	101	147	32	280
1985	107	150	48	305
1986	99	156	43	298
1987	86	144	60	290
1988	90	148	63	301
1989	99	145	61	305
1990	109	153	59	321
1991	112	157	65	334
1992	112	141	68	321
1993	116	140	72	328
1994	114	145	65	324
1995	112	151	68	331
1996	99	147	67	313
1976-95 Average	85.2	139.3	44.4	268.8
1986-95 Average	104.9	148	62.4	315.3

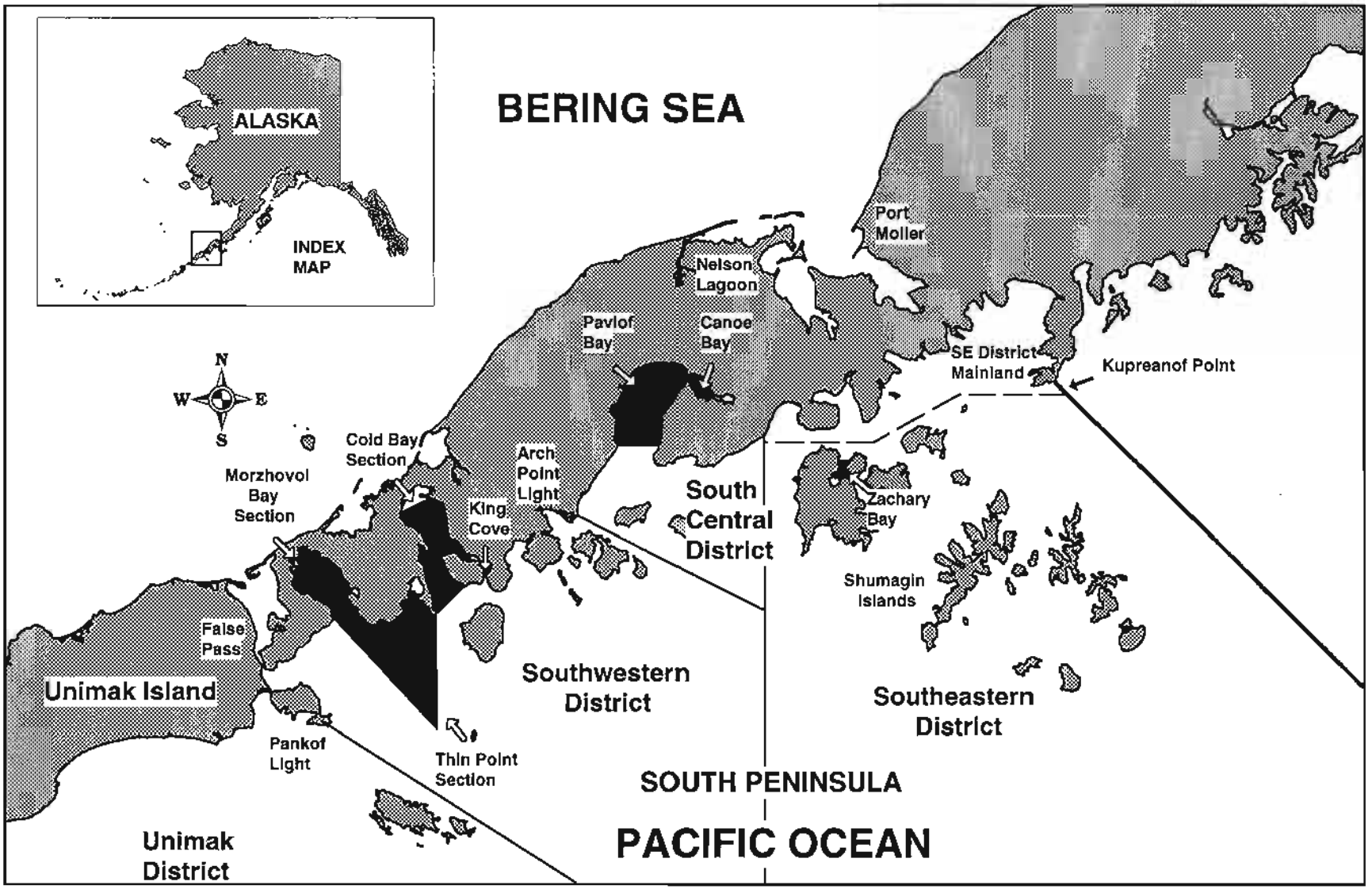
[a] During the peak of the South Peninsula June fishery, (June 12-26), approximately 50 purse seine permit holders fish the Shumagin Islands Section fishery. During the occasions when the South Unimak fishery is open and the Shumagin Islands fishery is closed, nearly the entire purse seine fleet fishes at South Unimak. Drift gillnet effort declines after June 20 as the fleet begins moving to the Port Moller fishery.



Appendix C.1. Map of the South Peninsula from Kupreanof Point to Scotch Cap with the general post June fishing area (Rock Island-Kupreanof Point) and the Southeastern District Mainland area shown.



Appendix C.2. Map of the South Peninsula with the area effected by the Southeastern District Management Plan and the post June Salmon Management Plan defined.



Appendix C.3. Map of the South Peninsula with those areas (Zachary Bay, Canoe Bay, Pavlof Bay, Cold Bay Section, Thin Point Section and Morzhovoi Bay Section) allowed fishing periods during July 1-19 defined.

Appendix C.4 Summary of the Shumagin Islands Section July test fishery results, 1996.

								Immature Salmon						
		Number of Adult Salmon						Number					Percent	
Date	Number of Sets	Chinook	Sockeye	Coho	Pink	Chum	Total	Chinook	Sockeye	Coho	Chum	Total	Sockeye	Chum
12-Jul	5	32	300	906	687	1,157	3,082	41	30	2	86	159	18.9	54.1
	Avg/Set	6.4	60	181.2	137.4	231.4	616.4	8.2	6	0.4	17.2	31.8	18.9	54.1
13-Jul	5	22	233	1,852	522	1,874	4,503	33	64	0	28	125	51.2	22.4
	Avg/Set	4.4	46.6	370.4	104.4	374.8	900.6	6.6	12.8	0.0	5.6	25	51.2	22.4
14-Jul	5	37	513	1,620	1,193	1,597	4,960	28	119	0	45	192	62.0	23.4
	Avg/Set	7.4	102.6	324	238.6	319.4	992	5.6	23.8	0.0	9	38.4	62.0	23.4
15-Jul	5	39	214	1,429	361	773	2,816	23	110	0	23	156	70.5	14.7
	Avg/Set	7.8	42.8	285.8	72.2	154.6	563.2	4.6	22.0	0.0	4.6	31.2	70.5	14.7
16-Jul	5	39	480	5,446	2,076	783	8,824	16	67	1	13	97	69.1	13.4
	Avg/Set	7.8	96	1089	415.2	156.6	1764.8	3.2	13.4	0.2	2.6	19.4	69.1	13.4
17-Jul	5	6	173	1,402	897	388	2,866	10	56	0	15	81	69.1	18.5
	Avg/Set	1.2	34.6	280.4	179.4	77.6	573	2	11.2	0.0	3	16.2	69.1	18.5
18-Jul	5	13	180	2,532	1,274	819	4,818	60	74	1	24	159	46.5	15.1
	Avg/Set	2.6	36	506.4	254.8	163.8	964	12	14.8	0.2	4.8	31.8	46.5	15.1

Note: Test fishing is standardized to purse seine gear, conducting 20 minute sets at Popof Head, Middle Set, and Red Bluff located on Popof Island, additional sets are made if time allows.

Appendix C.5. South Peninsula post June commercial salmon harvest, all gear combined, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	127	1,612	777	63,569	32,519	1,630,404	550,698	2,277,967
1971	175	2,325	1,305	225,162	16,906	1,423,528	855,916	2,522,817
1972	140	940	673	45,174	7,999	60,270	212,505	326,621
1973	115	710	159	58,207	6,571	38,500	91,810	195,247
1974	95	744	557	171,700	9,362	100,179	71,430	353,228
1975	46	90	0	3,449	66	55,395	29,928	88,838
1976	125	1,181	14	20,707	213	2,342,600	121,282	2,484,816
1977	103	1,315	35	60,669	2,108	1,443,245	126,762	1,632,819
1978	123	2,187	222	74,839	60,771	5,500,177	423,532	6,059,541
1979	165	2,699	1,049	283,352	356,562	6,409,584	378,712	7,429,259
1980	152	2,948	1,569	371,638	273,328	6,335,159	843,988	7,825,682
1981	168	2,940	4,415	316,945	161,899	4,581,643	1,201,454	6,266,356
1982	183	3,361	2,566	177,160	254,798	5,016,065	1,171,508	6,622,097
1983	210	3,210	12,833	522,913	127,157	2,771,744	917,198	4,351,845
1984	217	4,251	4,913	525,275	310,910	10,668,889	1,312,347	12,822,334
1985	213	2,970	724	294,782	170,046	4,323,885	912,580	5,702,017
1986	202	3,444	3,586	687,525	235,852	3,739,423	1,394,332	6,060,718
1987	233	2,926	3,935	463,090	224,740	1,191,512	929,782	2,813,059
1988	243	4,701	7,011	716,964	505,278	6,864,600	1,381,796	9,475,649
1989	274	4,185	4,225	909,393	441,397	7,089,895	538,177	8,983,087
1990	261	3,663	6,164	1,039,265	305,509	2,346,043	715,940	4,412,921
1991	234	3,889	2,807	570,688	313,210	9,977,423	797,890	11,662,018
1992	233	4,317	4,040	870,687	414,933	9,117,479	880,066	11,287,205
1993	221	3,683	4,301	639,412	214,020	9,843,962	513,579	11,215,274
1994	213	3,738	1,726	541,108	250,079	6,648,470	1,593,590	9,034,973
1995	207	4,228	2,079	824,679	254,581	16,123,733	1,172,964	18,378,036
1996	180	2,825	2,124	392,038	267,494	1,810,624	411,581	2,883,861
Average 1976-95	199	3,292	3,411	495,555	243,870	6,116,777	866,374	7,725,985
Average 1986-95	232	3,877	3,987	726,281	315,960	7,294,254	991,812	9,332,294

Appendix C.6. South Peninsula post June commercial purse seine salmon harvest by species, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	103	1,265	750	28,397	31,789	1,551,475	497,990	2,110,401
1971	111	1,622	1,219	82,826	16,346	1,414,696	715,354	2,230,441
1972	83	571	647	18,957	7,795	55,667	144,992	228,058
1973	53	332	155	15,796	6,286	34,463	73,249	129,949
1974	46	257	509	63,511	8,091	88,832	51,538	212,481
1975	39	76	0	1,642	37	54,435	29,336	85,450
1976	85	1,089	5	9,630	53	2,337,109	118,482	2,465,279
1977	82	1,117	18	32,051	1,034	1,427,176	114,058	1,574,337
1978	99	1,916	204	57,448	57,842	5,470,855	403,352	5,989,701
1979	120	2,144	981	193,629	346,021	6,306,410	346,006	7,193,047
1980	110	2,178	1,495	260,433	249,602	6,236,027	758,344	7,505,901
1981	113	2,004	4,280	171,658	155,653	4,461,879	1,104,569	5,898,039
1982	105	2,037	2,294	92,784	219,462	4,852,553	1,060,812	6,227,905
1983	114	1,852	12,552	258,763	109,822	2,688,187	829,281	3,898,605
1984	116	2,307	4,338	240,959	247,342	10,324,380	1,186,753	12,003,772
1985	119	1,646	625	178,953	128,931	4,096,285	828,645	5,233,439
1986	114	1,820	3,395	412,251	203,505	3,602,769	1,300,638	5,522,558
1987	111	1,289	3,700	238,678	169,763	1,135,252	811,464	2,358,857
1988	111	2,175	6,586	423,852	389,723	6,427,823	1,228,987	8,476,971
1989	117	1,644	3,584	470,465	305,558	6,641,815	417,978	7,839,400
1990	117	1,459	5,605	524,630	224,354	2,256,837	600,040	3,611,466
1991	118	1,705	2,085	232,338	199,104	9,614,533	635,031	10,683,091
1992	115	1,861	3,724	443,201	294,100	8,616,933	776,939	10,134,897
1993	101	1,594	3,666	288,648	148,565	9,494,663	448,204	10,383,746
1994	114	1,519	1,321	147,337	161,903	6,317,708	1,458,898	8,087,167
1995	112	2,010	1,556	368,688	185,974	15,404,768	1,039,506	17,000,492
1996	85	707	1,839	80,819	197,800	1,523,636	315,357	2,119,451
Average 1976-95								
	110	1,768	3,101	252,320	189,916	5,885,698	773,399	7,104,434
Average 1986-95								
	113	1,708	3,522	355,009	228,255	6,951,310	871,769	8,409,865

Appendix C.7. South Peninsula post June commercial drift gillnet salmon harvest, by species, July 1- October 31, 1970-96.

			Number of Salmon					
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	56	152	19	15,364	56	62,666	31,764	109,869
1971	107	475	47	105,274	356	1,983	124,539	232,199
1972	66	230	8	15,580	59	129	55,615	71,391
1973	77	168	1	16,246	43	545	10,464	27,299
1974	46	217	22	52,481	1,110	1,626	13,998	69,237
1975	0	0	0	0	0	0	0	0
1976	22	25	1	2,649	0	65	1,390	4,105
1977	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0
1979	16	27	2	1,097	33	16,635	2,834	20,601
1980	2	2	0	398	0	12	8	418
1981	7	8	0	1,388	10	7,200	4,821	13,419
1982	29	159	90	13,472	19,202	50,748	17,406	100,918
1983	30	128	78	19,005	3,658	5,586	19,913	48,240
1984	37	315	161	26,698	37,805	78,575	30,941	174,180
1985	33	185	24	18,441	18,033	21,803	18,521	76,822
1986	29	243	24	30,261	18,901	27,772	22,294	99,252
1987	54	285	64	39,360	30,445	3,025	43,115	116,009
1988	63	582	142	44,657	75,445	145,106	68,066	333,416
1989	81	590	295	86,343	88,376	85,946	44,605	305,565
1990	64	533	122	132,907	42,659	32,089	46,700	254,477
1991	43	237	62	21,721	51,215	26,740	25,465	125,203
1992	42	312	47	44,935	58,621	91,106	29,252	223,961
1993	41	215	111	23,421	26,364	12,037	17,871	79,804
1994	24	160	25	18,134	24,980	53,701	26,262	123,102
1995	18	126	34	21,505	26,020	41,868	22,517	111,944
1996	17	88	28	5,776	22,561	17,593	14,306	60,264
Average 1976-95								
	32	207	64	27,320	26,088	35,001	22,099	110,572
Average 1986-95								
	46	328	93	46,324	44,303	51,939	34,615	177,273

Appendix C.8. South Peninsula post June commercial set gillnet salmon harvest, by species, July 1- October 31, 1970-96.

			Number of Salmon					
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	25	195	8	19,808	674	16,263	20,944	57,697
1971	24	228	39	37,062	204	6,849	16,023	60,177
1972	22	139	18	10,637	145	4,474	11,898	27,172
1973	25	210	3	26,165	242	3,492	8,097	37,999
1974	40	270	26	55,708	161	9,721	5,894	71,510
1975	7	14	0	1,807	29	960	592	3,388
1976	20	67	8	8,428	160	5,426	1,410	15,432
1977	23	198	17	28,618	1,074	16,069	12,704	58,482
1978	26	271	18	17,391	2,929	29,322	20,180	69,840
1979	38	528	66	88,626	10,508	86,539	29,872	215,611
1980	42	768	74	110,807	23,726	99,120	85,636	319,363
1981	48	928	135	143,899	6,236	112,564	92,064	354,898
1982	51	1,165	182	70,904	16,134	112,764	93,290	293,274
1983	57	1,230	203	245,145	13,677	77,971	68,004	405,000
1984	64	1,629	414	257,618	25,763	265,934	94,653	644,382
1985	61	1,139	75	97,388	23,082	205,797	65,414	391,756
1986	59	1,381	167	245,013	13,446	108,882	71,400	438,908
1987	68	1,352	171	185,052	24,532	53,235	75,203	338,193
1988	69	1,944	283	248,455	40,110	291,671	84,743	665,262
1989	76	1,951	346	352,585	47,463	362,134	75,594	838,122
1990	80	1,671	437	381,728	38,496	57,117	69,200	546,978
1991	73	1,947	660	316,629	62,891	336,150	137,394	853,724
1992	76	2,144	269	382,551	62,212	409,440	73,875	928,347
1993	79	1,874	524	327,343	39,091	337,262	47,504	751,724
1994	75	2,059	380	375,637	63,196	277,061	108,430	824,704
1995	77	2,092	489	434,486	42,587	677,097	110,941	1,265,600
1996	78	2,030	257	305,443	47,133	269,395	81,918	704,146
Average 1976-95	58	1,317	246	215,915	27,866	196,078	70,876	510,980
Average 1986-95	73	1,842	373	324,948	43,402	291,005	85,428	745,156

Appendix C.9. South Peninsula post June commercial salmon harvest, all gear combined, July 1 - October 31, 1909-96.

	Number of Salmon					
Year	Chinook	Sockeye	Coho[a]	Pink	Chum	Total
1909			7,200			
1910			5,500			
1911			12,400			
1912			27,000			
1913			0			
1914			0			
1915			16,200			
1916			34,100			
1917			4,600			
1918			16,300			
1919			56,100			
1920			47,700			
1921			1,500			
1922			2,200			
1923			75,300			
1924			127,300			
1925			127,100			
1926			193,800			
1927			125,300			
1928			96,600			
1929			84,500			
1930			161,100			
1931			128,700			
1932			112,300			
1933			190,000			
1934			247,100			
1935			117,200			
1936			284,600			
1937			73,900			
1938			220,700			
1939			98,900			
1940			184,200			
1941			183,000			
1942			123,000			
1943			90,600			
1944			238,700			
1945			116,100			
1946			151,400			
1947			55,800			
1948			39,200			
1949			19,500			
1950			70,700			

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	Number of Salmon					
Year	Chinook	Sockeye	Coho[a]	Pink	Chum	Total
1951			55,700			
1952			39,200			
1953			47,900			
1954			49,400			
1955			44,800			
1956			61,900			
1957			49,900			
1958			70,600			
1959			8,500			
1960			1,800			
1961			10,400			
1962			12,500	1,899,400	564,800	
1963			16,500	2,324,700	358,300	
1964			13,600	2,705,300	532,100	
1965			34,200	2,806,100	372,400	
1966			6,300	288,800	257,400	
1967			2,900	57,300	123,200	
1968			31,100	1,141,100	169,000	
1969			10,900	1,128,100	138,400	
1970	777	63,569	32,519	1,630,404	550,698	2,277,967
1971	1,305	225,162	16,906	1,423,528	855,916	2,522,817
1972	673	45,174	7,999	60,270	212,505	326,621
1973	159	58,207	6,571	38,500	91,810	195,247
1974	557	171,700	9,362	100,179	71,430	353,228
1975	0	3,449	67	55,395	29,928	88,839
1976	14	20,707	213	2,342,600	121,282	2,484,816
1977	35	60,669	2,108	1,443,245	126,762	1,632,819
1978	222	74,839	60,771	5,500,177	423,532	6,059,541
1979	1,049	283,352	356,562	6,409,584	378,712	7,429,259
1980	1,569	371,638	273,328	6,335,159	843,988	7,825,682
1981	4,415	316,945	161,899	4,581,643	1,201,454	6,266,356
1982	2,566	177,160	254,798	5,016,065	1,171,508	6,622,097
1983	12,833	522,913	127,157	2,771,744	917,198	4,351,845
1984	4,913	525,275	310,910	10,668,889	1,312,347	12,822,334
1985	724	294,782	170,046	4,323,885	912,580	5,702,017
1986	3,586	687,525	235,852	3,739,423	1,394,332	6,060,718
1987	3,935	463,090	224,740	1,191,512	929,782	2,813,059
1988	7,011	716,964	505,278	6,864,600	1,381,796	9,475,649
1989	4,225	909,393	441,397	7,089,895	538,177	8,983,087
1990	6,164	1,039,265	305,509	2,346,043	715,940	4,412,921
1991	2,807	570,688	313,210	9,977,423	797,890	11,662,018
1992	4,040	870,687	414,933	9,117,479	880,066	11,287,205
1993	4,301	639,412	214,020	9,843,962	513,579	11,215,274

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	Number of Salmon					
Year	Chinook	Sockeye	Coho[a]	Pink	Chum	Total
1994	1,726	541,108	250,079	6,648,470	1,593,590	9,034,973
1995	2,079	824,679	254,581	16,123,733	1,172,964	18,378,036
1996	2,124	392,038	267,494	1,810,624	411,581	2,883,861
Average 1976-95	3,411	495,555	243,870	6,116,777	866,374	7,725,985
Average 1986-95	3,987	726,281	315,960	7,294,254	991,812	9,332,294

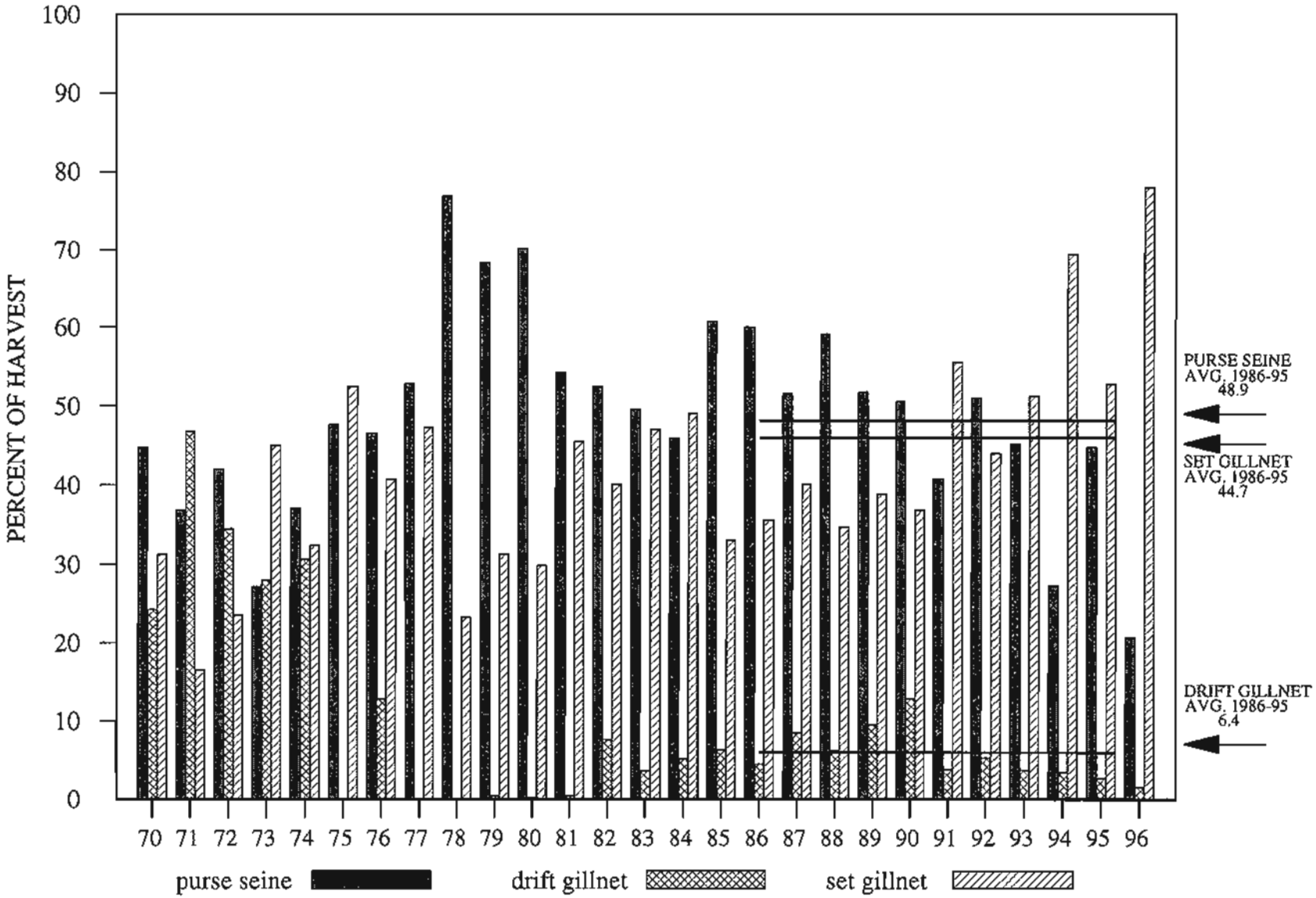
[a] Assumes all South Peninsula coho are caught during post June fisheries and that the Aleutian Islands Management Area contribution is negligible.

Appendix C.10. South Peninsula post June commercial chinook salmon harvest by gear, July 1- October 31,1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	750	96.5	19	2.4	8	1.0	777
1971	1,219	93.4	47	3.6	39	3.0	1,305
1972	647	96.1	8	1.2	18	2.7	673
1973	155	97.5	1	0.6	3	1.9	159
1974	509	91.4	22	3.9	26	4.7	557
1975	0	0.0	0	0.0	0	0.0	0
1976	5	35.7	1	7.1	8	57.1	14
1977	18	51.4	0	0.0	17	48.6	35
1978	204	91.9	0	0.0	18	8.1	222
1979	981	93.5	2	0.2	66	6.3	1,049
1980	1,495	95.3	0	0.0	74	4.7	1,569
1981	4,280	96.9	0	0.0	135	3.1	4,415
1982	2,294	89.4	90	3.5	182	7.1	2,566
1983	12,552	97.8	78	0.6	203	1.6	12,833
1984	4,338	88.3	161	3.3	414	8.4	4,913
1985	625	86.3	24	3.3	75	10.4	724
1986	3,395	94.7	24	0.7	167	4.7	3,586
1987	3,700	94.0	64	1.6	171	4.3	3,935
1988	6,586	93.9	142	2.0	283	4.0	7,011
1989	3,584	84.8	295	7.0	346	8.2	4,225
1990	5,605	90.9	122	2.0	437	7.1	6,164
1991	2,085	74.3	62	2.2	660	23.5	2,807
1992	3,724	92.2	47	1.2	269	6.7	4,040
1993	3,666	85.2	111	2.6	524	12.2	4,301
1994	1,321	76.5	25	1.4	380	22.0	1,726
1995	1,556	74.8	34	1.6	489	23.5	2,079
1996	1,839	86.6	28	1.3	257	12.1	2,124
Average 1976-95							
	3,101	90.9	64	1.9	246	7.2	3,411
Average 1986-95							
	3,522	88.3	93	2.3	373	9.3	3,987

Appendix C.11. South Peninsula post June commercial sockeye salmon harvest by gear, July 1- October 31, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	28,397	44.7	15,364	24.2	19,808	31.2	63,569
1971	82,826	36.8	105,274	46.8	37,062	16.5	225,162
1972	18,957	42.0	15,580	34.5	10,637	23.5	45,174
1973	15,796	27.1	16,246	27.9	26,165	45.0	58,207
1974	63,511	37.0	52,481	30.6	55,708	32.4	171,700
1975	1,642	47.6	0	0.0	1,807	52.4	3,449
1976	9,630	46.5	2,649	12.8	8,428	40.7	20,707
1977	32,051	52.8	0	0.0	28,618	47.2	60,669
1978	57,448	76.8	0	0.0	17,391	23.2	74,839
1979	193,629	68.3	1,097	0.4	88,626	31.3	283,352
1980	260,433	70.1	398	0.1	110,807	29.8	371,638
1981	171,658	54.2	1,388	0.4	143,899	45.4	316,945
1982	92,784	52.4	13,472	7.6	70,904	40.0	177,160
1983	258,763	49.5	19,005	3.6	245,145	46.9	522,913
1984	240,959	45.9	26,698	5.1	257,618	49.0	525,275
1985	178,953	60.7	18,441	6.3	97,388	33.0	294,782
1986	412,251	60.0	30,261	4.4	245,013	35.6	687,525
1987	238,678	51.5	39,360	8.5	185,052	40.0	463,090
1988	423,852	59.1	44,657	6.2	248,455	34.7	716,964
1989	470,465	51.7	86,343	9.5	352,585	38.8	909,393
1990	524,630	50.5	132,907	12.8	381,728	36.7	1,039,265
1991	232,338	40.7	21,721	3.8	316,629	55.5	570,688
1992	443,201	50.9	44,935	5.2	382,551	43.9	870,687
1993	288,648	45.1	23,421	3.7	327,343	51.2	639,412
1994	147,337	27.2	18,134	3.4	375,637	69.4	541,108
1995	368,688	44.7	21,505	2.6	434,486	52.7	824,679
1996	80,819	20.6	5,776	1.5	305,443	77.9	392,038
Average 1976-95							
	252,320	50.9	27,320	5.5	215,915	43.6	495,555
Average 1986-95							
	355,009	48.9	46,324	6.4	324,948	44.7	726,281



Appendix C.12. South Peninsula post June commercial sockeye salmon harvest by gear, 1970-96.

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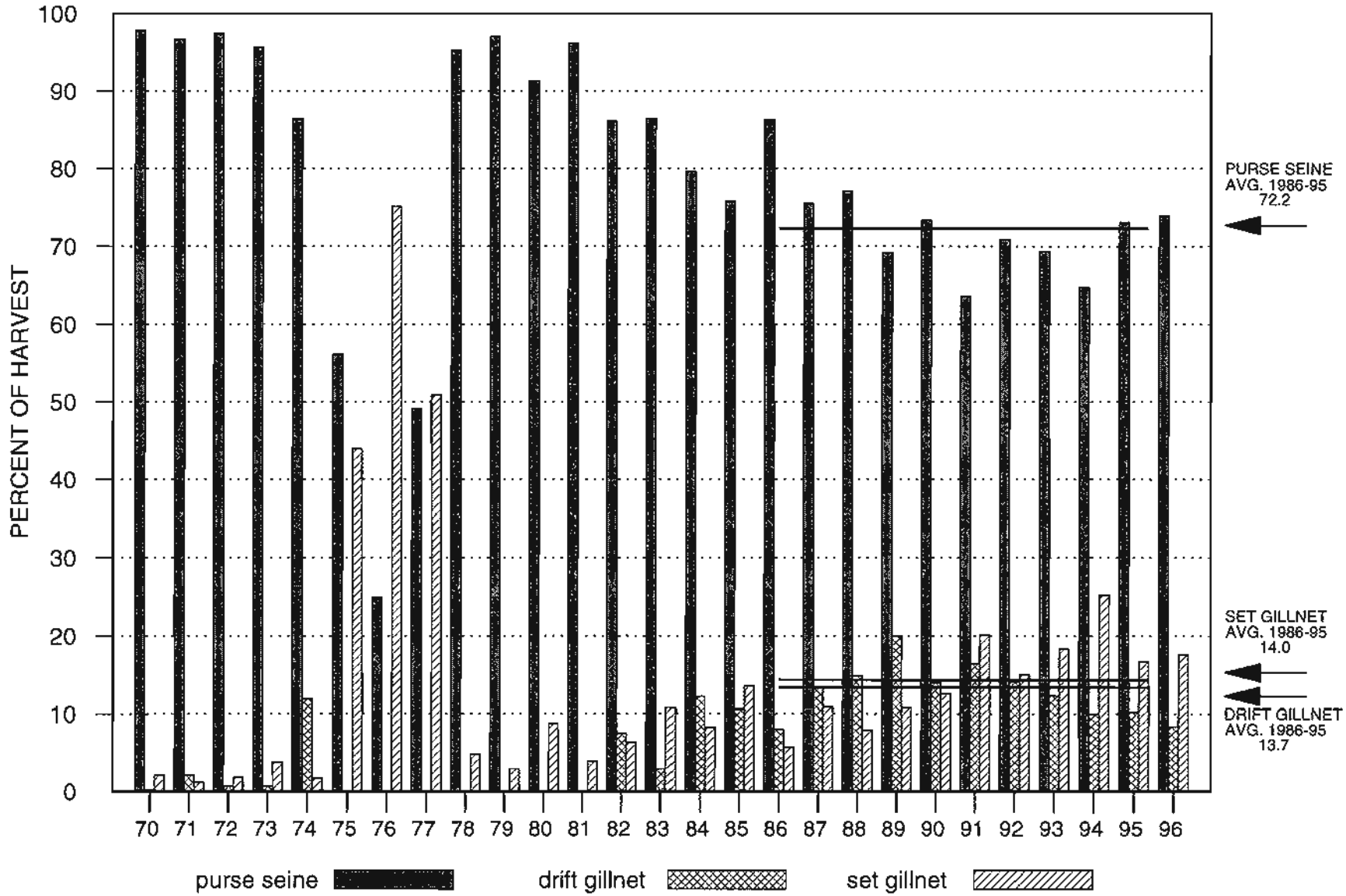
Appendix C.13 South Peninsula post June commercial coho salmon harvest by gear, July 1-October 31, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	31,789	97.8	56	0.2	674	2.1	32,519
1971	16,346	96.7	356	2.1	204	1.2	16,906
1972	7,795	97.4	59	0.7	145	1.8	7,999
1973	6,286	95.7	43	0.7	242	3.7	6,571
1974	8,091	86.4	1,110	11.9	161	1.7	9,362
1975	37	56.1	0	0.0	29	43.9	66
1976	53	24.9	0	0.0	160	75.1	213
1977	1,034	49.1	0	0.0	1,074	50.9	2,108
1978	57,842	95.2	0	0.0	2,929	4.8	60,771
1979	346,021	97.0	33	0.0	10,508	2.9	356,562
1980	249,602	91.3	0	0.0	23,726	8.7	273,328
1981	155,653	96.1	10	0.0	6,236	3.9	161,899
1982	219,462	86.1	19,202	7.5	16,134	6.3	254,798
1983	109,822	86.4	3,658	2.9	13,677	10.8	127,157
1984	247,342	79.6	37,805	12.2	25,763	8.3	310,910
1985	128,931	75.8	18,033	10.6	23,082	13.6	170,046
1986	203,505	86.3	18,901	8.0	13,446	5.7	235,852
1987	169,763	75.5	30,445	13.5	24,532	10.9	224,740
1988	389,723	77.1	75,445	14.9	40,110	7.9	505,278
1989	305,558	69.2	88,376	20.0	47,463	10.8	441,397
1990	224,354	73.4	42,659	14.0	38,496	12.6	305,509
1991	199,104	63.6	51,215	16.4	62,891	20.1	313,210
1992	294,100	70.9	58,621	14.1	62,212	15.0	414,933
1993	148,565	69.4	26,364	12.3	39,091	18.3	214,020
1994	161,903	64.7	24,980	10.0	63,196	25.3	250,079
1995	185,974	73.1	26,020	10.2	42,587	16.7	254,581
1996	197,800	73.9	22,561	8.4	47,133	17.6	267,494
Average 1976-95	189,916	77.9	26,088	10.7	27,866	11.4	243,870
Average 1986-95	228,255	72.2	44,303	14.0	43,402	13.7	315,960



Appendix C.14. South Peninsula post June commercial coho salmon harvest by gear, 1970-96.

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Appendix C.15. South Peninsula post June commercial pink salmon harvest by gear, July 1-October 31, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	1,551,475	95.2	62,666	3.8	16,263	1.0	1,630,404
1971	1,414,696	99.4	1,983	0.1	6,849	0.5	1,423,528
1972	55,667	92.4	129	0.2	4,474	7.4	60,270
1973	34,463	89.5	545	1.4	3,492	9.1	38,500
1974	88,832	88.7	1,626	1.6	9,721	9.7	100,179
1975	54,435	98.3	0	0.0	960	1.7	55,395
1976	2,337,109	99.8	65	0.0	5,426	0.2	2,342,600
1977	1,427,176	98.9	0	0.0	16,069	1.1	1,443,245
1978	5,470,855	99.5	0	0.0	29,322	0.5	5,500,177
1979	6,306,410	98.4	16,635	0.3	86,539	1.4	6,409,584
1980	6,236,027	98.4	12	0.0	99,120	1.6	6,335,159
1981	4,461,879	97.4	7,200	0.2	112,564	2.5	4,581,643
1982	4,852,553	96.7	50,748	1.0	112,764	2.2	5,016,065
1983	2,688,187	97.0	5,586	0.2	77,971	2.8	2,771,744
1984	10,324,380	96.8	78,575	0.7	265,934	2.5	10,668,889
1985	4,096,285	94.7	21,803	0.5	205,797	4.8	4,323,885
1986	3,602,769	96.3	27,772	0.7	108,882	2.9	3,739,423
1987	1,135,252	95.3	3,025	0.3	53,235	4.5	1,191,512
1988	6,427,823	93.6	145,106	2.1	291,671	4.2	6,864,600
1989	6,641,815	93.7	85,946	1.2	362,134	5.1	7,089,895
1990	2,256,837	96.2	32,089	1.4	57,117	2.4	2,346,043
1991	9,614,533	96.4	26,740	0.3	336,150	3.4	9,977,423
1992	8,616,933	94.5	91,106	1.0	409,440	4.5	9,117,479
1993	9,494,663	96.5	12,037	0.1	337,262	3.4	9,843,962
1994	6,317,708	95.0	53,701	0.8	277,061	4.2	6,648,470
1995	15,404,768	95.5	41,868	0.3	677,097	4.2	16,123,733
1996	1,523,636	84.1	17,593	1.0	269,395	14.9	1,810,624
Average 1976-95							
	5,885,698	96.2	35,001	0.6	196,078	3.2	6,116,777
Average 1986-95							
	6,951,310	95.3	51,939	0.7	291,005	4.0	7,294,254

Appendix C.16. South Peninsula post June commercial chum salmon harvest by gear, July 1-October 31, 1970-96.

	Purse Seine		Drift Gillnet		Set Gillnet		
Year	Number	Percent	Number	Percent	Number	Percent	Total
1970	497,990	90.4	31,764	5.8	20,944	3.8	550,698
1971	715,354	83.6	124,539	14.6	16,023	1.9	855,916
1972	144,992	68.2	55,615	26.2	11,898	5.6	212,505
1973	73,249	79.8	10,464	11.4	8,097	8.8	91,810
1974	51,538	72.2	13,998	19.6	5,894	8.3	71,430
1975	29,336	98.0	0	0.0	592	2.0	29,928
1976	118,482	97.7	1,390	1.1	1,410	1.2	121,282
1977	114,058	90.0	0	0.0	12,704	10.0	126,762
1978	403,352	95.2	0	0.0	20,180	4.8	423,532
1979	346,006	91.4	2,834	0.7	29,872	7.9	378,712
1980	758,344	89.9	8	0.0	85,636	10.1	843,988
1981	1,104,569	91.9	4,821	0.4	92,064	7.7	1,201,454
1982	1,060,812	90.6	17,406	1.5	93,290	8.0	1,171,508
1983	829,281	90.4	19,913	2.2	68,004	7.4	917,198
1984	1,186,753	90.4	30,941	2.4	94,653	7.2	1,312,347
1985	828,645	90.8	18,521	2.0	65,414	7.2	912,580
1986	1,300,638	93.3	22,294	1.6	71,400	5.1	1,394,332
1987	811,464	87.3	43,115	4.6	75,203	8.1	929,782
1988	1,228,987	88.9	68,066	4.9	84,743	6.1	1,381,796
1989	417,978	77.7	44,605	8.3	75,594	14.0	538,177
1990	600,040	83.8	46,700	6.5	69,200	9.7	715,940
1991	635,031	79.6	25,465	3.2	137,394	17.2	797,890
1992	776,939	88.3	29,252	3.3	73,875	8.4	880,066
1993	448,204	87.3	17,871	3.5	47,504	9.2	513,579
1994	1,458,898	91.5	26,262	1.6	108,430	6.8	1,593,590
1995	1,039,506	88.6	22,517	1.9	110,941	9.5	1,172,964
1996	315,357	76.6	14,306	3.5	81,918	19.9	411,581
Average 1976-95							
	773,399	89.3	22,099	2.6	70,876	8.2	866,374
Average 1986-95							
	871,769	87.9	34,615	3.5	85,428	8.6	991,812

Appendix C.17. Shumagin Islands Section post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	50	512	735	22,219	30,065	486,657	116,392	656,068
1971	52	737	1,135	45,681	16,067	471,965	300,509	835,357
1972	44	431	619	18,070	7,686	34,047	97,606	158,028
1973	28	259	148	19,484	6,068	19,315	43,154	88,169
1974	37	205	507	43,484	8,031	35,706	37,323	125,051
1975	0	0	0	0	0	0	0	0
1976	42	127	0	3	3	303,422	7,968	311,396
1977	2	5	0	97	74	0	38	209
1978	69	643	189	51,261	40,433	1,213,961	164,930	1,470,774
1979	91	956	910	145,369	313,573	2,071,045	93,527	2,624,424
1980	86	1,239	1,456	235,438	233,501	1,625,784	283,432	2,379,611
1981	92	893	4,038	118,139	126,955	1,364,370	309,726	1,923,228
1982	89	964	1,969	67,269	207,273	1,638,712	295,325	2,210,548
1983	92	864	6,547	108,365	92,403	900,726	220,824	1,328,865
1984	90	858	3,222	96,149	211,648	1,786,737	259,497	2,357,253
1985	109	932	511	107,792	113,193	1,627,627	205,649	2,054,772
1986	99	1,352	3,149	341,966	201,518	1,497,905	557,407	2,601,945
1987	120	1,210	3,388	248,934	157,936	542,383	310,540	1,263,181
1988	120	2,041	5,955	416,917	351,118	3,396,332	415,308	4,585,630
1989	140	1,565	2,446	416,425	248,760	2,023,468	238,627	2,929,726
1990	138	1,439	4,916	423,253	182,128	1,102,353	344,096	2,056,746
1991	135	1,318	1,396	212,091	142,846	2,140,838	211,667	2,708,838
1992	128	1,424	2,657	250,306	230,425	2,287,338	233,954	3,004,680
1993	110	1,007	2,334	195,451	124,423	3,326,530	121,102	3,769,840
1994	115	986	949	152,702	147,602	1,126,688	249,939	1,677,880
1995	116	1,274	1,674	295,690	161,292	5,325,186	302,541	6,086,383
1996	103	852	1,578	93,161	203,004	703,409	134,780	1,135,932
Average 1976-95	99	1,055	2,385	194,181	164,355	1,765,070	241,305	2,367,296
Average 1986-95	122	1,362	2,886	295,374	194,805	2,276,902	298,518	3,068,485

Appendix C.18. Shumagin Islands Section post June commercial purse seine salmon harvest, by species, July 1-October 31, 1970-96[a].

			Number of Fish					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	45	456	735	20,616	29,869	480,668	112,328	644,216
1971	44	649	1,129	40,997	15,946	469,438	294,326	821,836
1972	39	388	614	16,861	7,661	33,387	94,827	153,350
1973	21	189	147	14,493	5,960	18,043	40,904	79,547
1974	26	148	497	39,955	8,011	34,796	35,737	118,996
1975	0	0	0	0	0	0	0	0
1976	42	127	0	3	3	303,422	7,968	311,396
1977	0	0	0	0	0	0	0	0
1978	51	513	182	46,478	39,807	1,198,020	153,278	1,437,765
1979	69	820	906	133,849	310,338	2,037,038	88,706	2,570,837
1980	65	1,056	1,451	215,842	232,103	1,608,291	268,704	2,326,391
1981	69	739	4,031	104,618	125,838	1,330,047	298,336	1,862,870
1982	65	812	1,953	61,306	204,187	1,617,128	283,527	2,168,101
1983	69	738	6,513	96,513	90,220	891,237	215,265	1,299,748
1984	65	603	3,161	75,357	207,577	1,730,094	245,951	2,262,140
1985	66	671	490	92,645	109,746	1,564,791	193,894	1,961,566
1986	64	911	3,102	282,235	198,490	1,462,948	537,754	2,484,529
1987	72	676	3,337	183,576	152,025	521,872	285,677	1,146,487
1988	72	1,140	5,862	326,863	340,745	3,221,597	385,772	4,280,839
1989	83	641	2,315	251,880	228,086	1,872,541	211,173	2,565,995
1990	82	723	4,748	260,225	168,410	1,071,568	308,035	1,812,986
1991	76	476	1,099	87,380	125,881	2,021,704	161,630	2,397,694
1992	73	579	2,507	118,420	209,569	2,070,119	201,258	2,601,873
1993	61	486	2,263	121,014	109,888	3,186,831	108,498	3,528,494
1994	63	359	854	65,989	123,462	1,007,533	216,512	1,414,350
1995	70	675	1,289	193,711	146,752	5,024,967	275,345	5,642,064
1996	53	392	1,499	42,432	189,582	617,271	114,945	965,729
Average 1976-95								
	64	637	2,303	135,895	156,156	1,687,087	222,364	2,203,806
Average 1986-95								
	72	667	2,738	189,129	180,331	2,146,168	269,165	2,787,531

[a] Drift gillnet landings comprising of 209 sockeye, 8 coho, 806 pink, and 840 chum salmon were reassigned as purse seine landings.

Appendix C.19. Shumagin Islands Section post June commercial set gillnet salmon harvest, by species, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	11	48	0	1,394	188	5,183	3,224	9,989
1971	10	88	6	4,684	121	2,527	6,183	13,521
1972	6	43	5	1,209	25	660	2,779	4,678
1973	9	70	1	4,991	108	1,272	2,250	8,622
1974	18	57	10	3,529	20	910	1,586	6,055
1975	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0
1977	2	5	0	97	74	0	38	209
1978	19	130	7	4,783	626	15,941	11,652	33,009
1979	24	135	4	11,520	3,235	32,537	4,821	52,117
1980	21	183	5	19,596	1,398	17,493	14,728	53,220
1981	23	154	7	13,521	1,117	34,323	11,390	60,358
1982	23	149	16	5,951	3,086	20,566	9,979	39,598
1983	23	126	34	11,852	2,183	9,489	5,559	29,117
1984	25	255	61	20,792	4,071	56,643	13,546	95,113
1985	43	261	21	15,147	3,447	62,836	11,755	93,206
1986	35	441	47	59,731	3,028	34,957	19,653	117,416
1987	48	534	51	65,358	5,911	20,511	24,863	116,694
1988	48	901	93	90,054	10,373	174,735	29,536	304,791
1989	57	924	131	164,545	20,674	150,927	27,454	363,731
1990	56	716	168	163,028	13,718	30,785	36,061	243,760
1991	59	842	297	124,711	16,965	119,134	50,037	311,144
1992	55	845	150	131,886	20,856	217,219	32,696	402,807
1993	49	521	71	74,437	14,535	139,699	12,604	241,346
1994	52	627	95	86,713	24,140	119,155	33,427	263,530
1995	46	599	385	101,979	14,540	300,219	27,196	444,319
1996	50	460	79	50,729	13,422	86,138	19,835	170,203
Average 1976-95								
	35	417	82	58,285	8,199	77,858	18,850	163,274
Average 1986-95								
	51	695	149	106,244	14,474	130,734	29,353	280,954

Appendix C.20. Southeastern District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	56	644	748	38,579	30,349	534,891	137,013	741,580
1971	59	858	1,176	71,689	16,142	525,000	317,492	931,499
1972	51	500	626	24,521	7,759	37,485	104,610	175,001
1973	33	345	156	35,456	6,290	24,456	47,695	114,053
1974	48	348	518	84,566	8,146	65,089	47,332	205,651
1975	8	14	0	2,943	29	2,783	496	6,251
1976	59	224	8	9,024	164	398,733	15,408	423,337
1977	37	151	19	25,689	762	40,108	8,867	75,445
1978	75	784	205	63,144	42,027	1,507,991	193,461	1,806,828
1979	102	1,305	978	215,063	324,723	2,628,819	136,434	3,306,017
1980	99	1,599	1,503	296,003	241,659	1,846,028	448,024	2,833,217
1981	106	1,481	4,212	218,454	131,990	1,688,648	581,660	2,624,964
1982	106	1,648	2,173	109,955	215,056	2,254,745	545,874	3,127,803
1983	110	1,530	6,952	315,265	101,707	969,445	357,361	1,750,730
1984	114	1,561	3,462	238,830	220,380	2,061,880	380,732	2,905,284
1985	117	1,438	549	157,175	118,899	1,998,542	321,946	2,597,111
1986	111	1,939	3,382	487,600	204,797	1,773,468	693,117	3,162,364
1987	130	1,725	3,519	329,339	174,782	679,632	513,917	1,701,189
1988	127	2,735	6,267	540,387	382,688	4,220,158	614,762	5,764,262
1989	145	2,379	3,196	638,321	312,879	3,928,266	331,031	5,213,693
1990	147	1,995	5,476	598,290	233,281	1,304,560	480,346	2,621,953
1991	142	2,516	2,229	423,833	192,718	4,260,018	403,643	5,282,441
1992	135	2,615	3,155	467,168	285,484	3,284,348	334,643	4,374,798
1993	128	2,523	3,782	457,018	161,454	5,987,865	186,516	6,796,635
1994	134	2,152	1,361	394,343	202,446	1,459,664	370,345	2,428,159
1995	132	2,678	1,920	628,812	209,776	7,437,500	484,847	8,762,855
1996	122	2,304	2,053	346,585	225,017	976,358	212,848	1,762,861
Average 1976-95	113	1,749	2,717	330,686	187,884	2,486,521	370,147	3,377,954
Average 1986-95	133	2,326	3,429	496,511	236,031	3,433,548	441,317	4,610,835

Appendix C.21. Southeastern District post June commercial purse seine salmon harvest by species, July 1-October 31, 1970-96.[a]

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	51	577	746	22,215	30,698	655,301	144,087	853,047
1971	52	865	1,188	44,138	16,169	699,177	429,293	1,189,965
1972	48	427	640	18,604	7,772	41,792	111,708	180,516
1973	26	210	155	15,275	6,196	26,603	46,657	94,886
1974	34	215	507	56,143	8,082	75,784	49,048	189,564
1975	6	11	0	1,349	34	2,060	178	3,621
1976	46	271	0	2,460	41	573,484	31,397	607,382
1977	34	136	12	13,053	1,006	164,621	14,898	193,590
1978	53	709	196	50,940	44,277	1,883,690	213,020	2,192,123
1979	71	1,067	962	170,119	327,987	3,165,434	150,660	3,815,162
1980	70	1,199	1,484	230,186	237,857	1,978,900	420,827	2,869,254
1981	69	1,104	4,182	137,337	135,502	2,174,069	654,717	3,105,807
1982	67	1,155	2,204	69,471	209,984	2,448,903	596,184	3,326,746
1983	69	998	7,769	206,002	97,636	1,042,568	412,303	1,766,278
1984	69	894	3,619	138,955	225,172	2,884,707	444,728	3,697,181
1985	69	916	539	110,864	118,610	2,457,622	328,562	3,016,197
1986	67	1,061	3,299	303,413	200,360	1,893,638	668,909	3,069,619
1987	78	836	3,540	192,997	164,486	874,323	490,339	1,725,685
1988	72	1,394	6,096	359,728	370,656	4,312,986	606,697	5,656,163
1989	84	1,079	3,392	382,429	292,333	4,696,630	306,319	5,681,103
1990	82	951	5,359	379,620	215,797	1,310,643	442,490	2,353,909
1991	78	824	1,650	147,797	162,791	3,967,287	288,033	4,567,558
1992	74	757	2,904	161,687	245,368	2,925,519	276,400	3,611,878
1993	64	849	3,318	180,279	134,909	5,671,206	147,201	6,136,913
1994	72	465	1,022	90,821	153,006	1,264,245	296,870	1,805,964
1995	72	929	1,483	277,432	175,972	6,871,880	398,403	7,725,170
1996	53	484	1,808	66,305	194,140	752,545	142,680	1,157,478
Average 1976-95	68	880	2,652	180,280	175,688	2,628,118	359,448	3,346,184
Average 1986-95	74	915	3,206	247,620	211,568	3,378,836	392,166	4,233,396

[a] Drift gillnet landings comprising of 1 chinook, 600 sockeye, 9 coho, 9,310 pink, and 4,157 chum salmon were reassigned as purse seine landings.

Appendix C.22. Southeastern District post June commercial set gillnet salmon harvest by species, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	22	186	8	19,078	667	15,936	20,470	56,159
1971	22	226	39	36,897	202	6,846	15,865	59,849
1972	16	127	16	10,605	139	3,627	8,736	23,123
1973	21	196	2	25,807	218	3,351	6,561	35,939
1974	34	243	25	51,307	159	8,397	4,803	64,691
1975	7	14	0	1,807	29	960	592	3,388
1976	19	66	8	8,365	160	5,305	1,367	15,205
1977	20	163	16	26,046	1,069	6,027	6,766	39,924
1978	24	262	15	17,275	2,929	22,821	19,730	62,770
1979	35	492	66	86,173	10,366	72,231	23,975	192,811
1980	35	666	56	100,462	16,148	50,485	62,940	230,091
1981	37	802	128	136,908	4,861	101,103	65,447	308,447
1982	41	1,003	165	65,698	13,653	94,904	77,672	252,092
1983	45	1,083	154	226,806	13,164	36,858	54,879	331,861
1984	53	1,417	361	233,289	15,694	200,857	71,796	521,997
1985	50	890	49	76,585	10,128	187,495	42,293	316,550
1986	48	1,166	128	219,897	6,101	94,508	53,891	374,525
1987	56	1,173	136	162,840	17,550	46,971	61,593	289,090
1988	55	1,685	208	215,563	21,083	264,157	67,443	568,454
1989	61	1,700	245	311,087	30,748	331,924	64,335	738,339
1990	67	1,399	379	321,093	21,896	41,519	57,651	442,538
1991	64	1,692	579	276,036	29,927	292,731	115,610	714,883
1992	61	1,858	251	305,481	40,116	358,829	58,243	762,920
1993	64	1,674	464	276,739	26,545	316,659	39,315	659,722
1994	62	1,687	339	303,522	49,440	195,419	73,475	622,195
1995	60	1,749	437	351,380	33,804	565,620	86,444	1,037,685
1996	69	1,820	245	280,280	30,877	223,813	70,168	605,383
Average 1976-95	48	1,131	209	186,062	18,269	164,321	55,243	424,105
Average 1986-95	60	1,578	317	274,364	27,721	250,834	67,800	621,035

Appendix C.23. South Central District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-96.

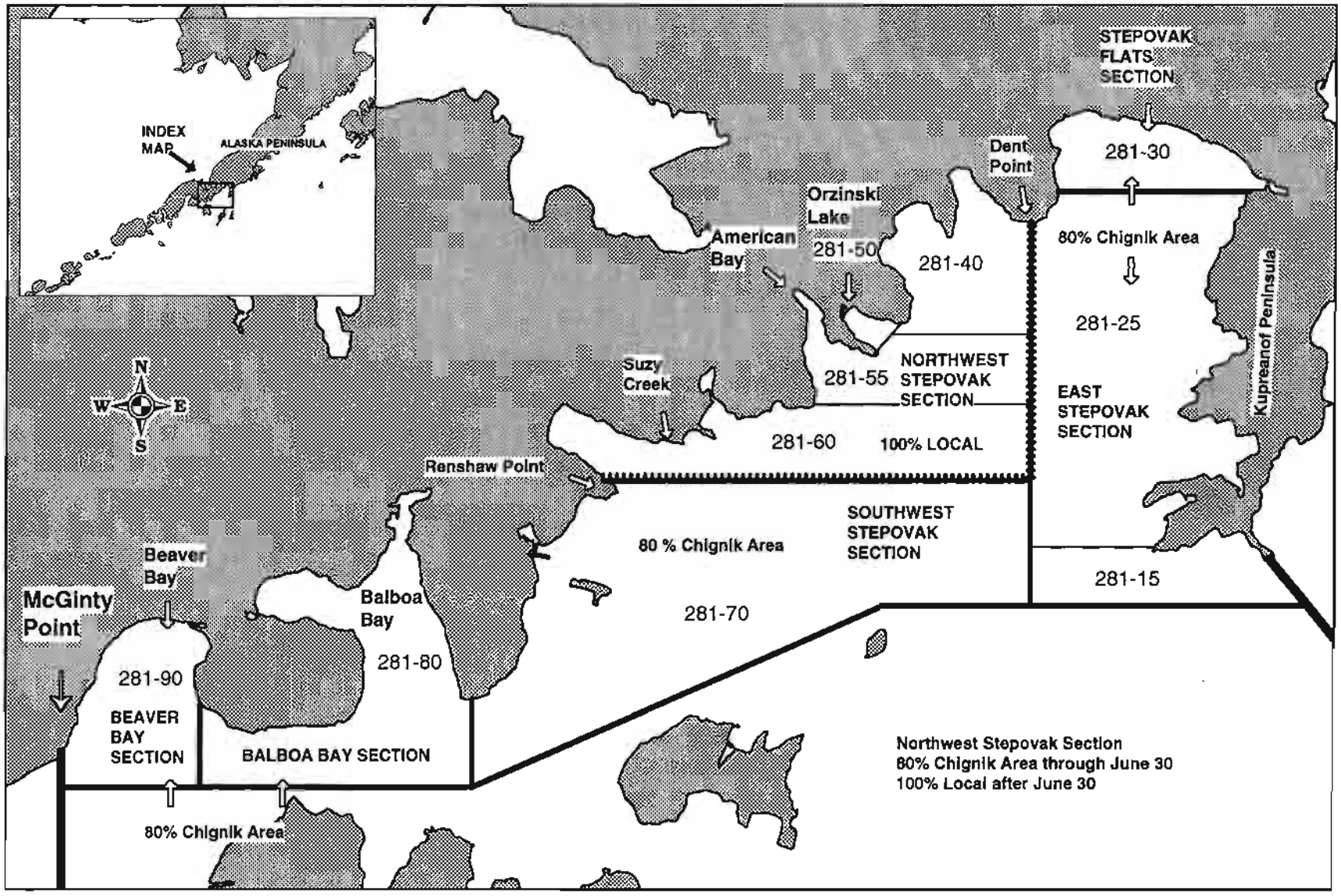
			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	63	545	1	897	145	703,145	319,249	1,023,437
1971	57	511	12	1,110	72	505,920	201,193	708,307
1972	31	106	8	155	2	7,893	30,340	38,398
1973	28	115	0	90	103	6,473	26,151	32,817
1974	16	46	1	4,461	2	11,348	2,262	18,074
1975	32	45	0	53	3	27,032	28,649	55,737
1976	66	719	3	4,419	12	1,457,025	73,604	1,535,063
1977	86	885	7	9,022	15	992,852	87,468	1,089,364
1978	80	909	11	2,604	1,717	2,261,341	107,569	2,373,242
1979	85	623	6	4,639	4,213	1,597,090	105,647	1,711,595
1980	55	298	11	3,507	1,374	490,186	191,080	686,158
1981	95	625	15	12,001	1,714	1,921,088	240,596	2,175,414
1982	68	534	26	3,130	3,486	1,560,109	240,172	1,806,923
1983	92	562	212	10,776	3,365	1,166,003	128,871	1,309,227
1984	94	694	312	22,687	3,471	3,447,090	311,193	3,784,753
1985	59	302	46	11,701	987	678,418	165,893	857,045
1986	61	372	33	49,266	1,164	1,078,410	254,835	1,383,708
1987	84	346	104	39,209	1,237	222,080	198,350	460,980
1988	43	216	282	48,968	3,696	123,343	155,378	331,667
1989	75	227	95	58,209	3,642	550,192	49,861	661,999
1990	72	214	126	62,040	3,767	382,065	60,370	508,368
1991	92	433	202	44,277	9,259	3,270,646	156,552	3,480,936
1992	99	431	483	160,039	22,071	1,566,809	253,811	2,003,213
1993	79	286	115	35,999	3,829	1,502,663	143,660	1,686,266
1994	85	377	130	34,188	2,844	1,681,569	317,664	2,036,395
1995	93	506	41	67,878	3,111	3,925,189	176,827	4,173,046
1996	39	146	14	19,945	1,620	537,391	70,607	629,577
Average 1976-95	78	478	113	34,228	3,749	1,493,708	170,970	1,702,768
Average 1986-95	78	341	161	60,007	5,462	1,430,297	176,731	1,672,658

Appendix C.24. Southwestern District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	66	273	17	18,242	1,000	248,158	62,708	330,125
1971	102	473	31	44,138	428	209,313	103,874	357,784
1972	53	144	4	4,605	59	6,815	16,177	27,660
1973	68	161	2	14,631	54	1,984	8,965	25,636
1974	48	240	24	59,789	1,119	4,650	15,317	80,899
1975	18	20	0	240	0	25,343	509	26,092
1976	57	125	3	5,463	0	306,786	14,914	327,166
1977	45	131	0	12,548	18	279,745	17,630	309,941
1978	49	307	0	4,020	11,848	1,332,325	83,213	1,431,406
1979	68	512	15	22,354	13,996	1,570,553	98,426	1,705,344
1980	103	785	18	37,483	17,949	3,815,588	169,141	4,040,179
1981	66	397	6	20,582	19,197	376,948	217,615	634,348
1982	94	658	170	38,183	27,161	909,969	253,923	1,229,406
1983	97	449	347	42,663	3,256	513,215	139,111	698,592
1984	128	1,190	308	113,518	51,719	4,023,402	383,676	4,572,623
1985	120	860	90	95,459	40,160	997,847	375,413	1,508,969
1986	103	837	120	111,763	28,027	671,600	414,277	1,225,787
1987	109	549	130	59,089	41,218	46,398	170,711	317,546
1988	138	1,229	310	67,397	84,991	2,103,097	474,764	2,730,559
1989	142	1,124	430	141,669	102,890	1,477,724	67,046	1,789,759
1990	154	959	242	226,480	52,020	591,592	102,462	972,796
1991	118	907	345	97,518	100,413	2,439,676	229,170	2,867,122
1992	145	1,200	393	230,902	90,810	4,238,473	279,675	4,840,253
1993	107	853	397	144,246	45,720	2,351,295	181,364	2,723,022
1994	130	1,206	233	110,398	43,911	3,497,528	904,977	4,557,047
1995	108	1,042	118	127,817	41,634	4,760,969	511,124	5,441,662
1996	60	364	56	24,442	38,237	294,118	126,893	483,746
Average 1976-95	104	766	184	85,478	40,847	1,815,237	254,432	2,196,176
Average 1986-95	125	991	272	131,728	63,163	2,217,835	333,557	2,746,555

Appendix C.25. Unimak District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-96.

			Number of Salmon					
Year	Permit	Landing	Chinook	Sockeye	Coho	Pink	Chum	Total
1970	9	12	4	2,616	0	3,872	2,546	9,038
1971	112	252	35	98,879	35	4,496	105,794	209,239
1972	47	136	5	11,205	27	143	45,544	56,924
1973	16	28	0	2,404	0	89	3,476	5,969
1974	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0
1981	8	11	84	10,117	625	8,411	22,383	41,620
1982	3	8	1	666	514	1,162	1,738	4,081
1983	36	118	4,351	36,666	9,736	13,100	182,034	245,887
1984	23	56	313	16,826	14,854	112,833	100,954	245,780
1985	2	2	0	173	161	2,503	419	3,256
1986	7	8	6	3,186	200	1,267	2,420	7,079
1987	11	22	25	8,955	249	1,740	8,789	19,758
1988	63	177	115	25,308	24,852	61,017	77,514	188,806
1989	33	55	63	15,999	11,784	33,425	50,616	111,887
1990	56	140	58	50,032	12,029	20,224	52,967	135,310
1991	17	33	31	5,060	10,820	7,083	8,525	31,519
1992	17	71	9	12,578	16,568	27,849	11,937	68,941
1993	13	21	7	2,149	3,017	2,139	2,039	9,351
1994	2	3	2	2,179	878	9,709	604	13,372
1995	2	2	0	172	60	75	166	473
1996	7	11	1	1,066	2,620	2,757	1,233	7,677
Average 1976-95	15	36	253	9,503	5,317	15,127	26,155	56,356
Average 1986-95	22	53	32	12,562	8,046	16,453	21,558	58,650



Appendix D.1. Map of the Southeastern District Mainland fishery from Kupreanof Point to McGinty Point with the salmon sections defined.

Appendix D.2. History of regulations for the Southeastern District Mainland commercial fishery, 1970-96.

Year	Management Plan
Pre-1974	Set weekly fishing periods, usually 5 days per week
1974-77	Day for day fishing with Chignik
1978	3 days per week, seine gear prohibited before July 10
1979-84	5 days per week, 60,000 catch ceiling (until Chignik catches 1 million)
1985-91	Assures minimum harvest in Chignik of 600,000, restricts fishing in SEDM during overlap period (6/26-7/9), allows 6% (6.2%-1985-88) allocation of total Chignik sockeye harvest through 7/25, permits openings in Stepovak Flats and Northwest Stepovak Sections based on local runs
1992-95	Area managed on local sockeye runs reduced to include only Orzinski Bay (Stepovak Flats Section not effected), increased allocation of Chignik sockeye harvest from 6% to 7%
1996-Present	Area managed on local sockeye runs increased to include the Northwest Stepovak Section beginning July 1, reduced allocation of Chignik sockeye harvest from 7% to 6%

Appendix D.3. Southeastern District Mainland commercial sockeye salmon harvest by gear, through July 25, 1970-96.[a]

	Catch by Gear				
	Set Net		Purse Seine		Total
Year	Number	Percent	Number	Percent	Catch
1970	80,692	95.4	3,904	4.6	84,596
1971	60,767	95.9	2,587	4.1	63,354
1972	19,491	92.4	1,614	7.6	21,105
1973	46,141	97.9	976	2.1	47,117
1974	66,101	74.9	22,129	25.1	88,230
1975	1,807	57.3	1,349	42.7	3,156
1976	52,414	90.2	5,712	9.8	58,126
1977	30,658	70.5	12,827	29.5	43,485
1978	28,930	92.7	2,267	7.3	31,197
1979	77,604	87.5	11,136	12.5	88,740
1980	89,743	93.0	6,729	7.0	96,472
1981	181,698	90.1	20,013	9.9	201,711
1982	79,442	91.5	7,351	8.5	86,793
1983	213,051	71.0	87,107	29.0	300,158
1984	567,043	95.3	28,000	4.7	595,043
1985	78,347	96.8	2,610	3.2	80,957
1986	196,545	95.2	9,987	4.8	206,532
1987	244,413	99.8	482	0.2	244,895
1988	77,204	95.1	3,956	4.9	81,160
1989	46,977	52.7	42,247	47.3	89,224
1990	85,368	52.0	78,660	48.0	164,028
1991	275,768	95.2	13,959	4.8	289,727
1992	214,638	99.6	806	0.4	215,444
1993	186,656	88.5	24,271	11.5	210,927
1994	221,657	100.0	0	0.0	221,657
1995	139,515	87.5	19,866	12.5	159,381
1996	276,212	97.2	7,864	2.8	284,076
Average 1976-95	154,384	89.1	18,899	10.9	173,283
Average 1986-95	168,874	89.7	19,423	10.3	188,298

[a] Only set gillnet gear is allowed prior to July 11 since 1978 season.

Appendix D.4. Chignik sockeye salmon contribution to the Southeastern District Mainland harvest, by gear, through July 25, 1970-96.[abc]

	Catch by Gear				
	Set Net		Purse Seine		Total
Year	Number	Percent	Number	Percent	Catch
1970	63,688	94.2	3,894	5.8	67,582
1971	48,575	95.9	2,066	4.1	50,641
1972	15,593	92.4	1,291	7.6	16,884
1973	36,870	98.0	743	2.0	37,613
1974	52,798	81.8	11,766	18.2	64,564
1975	1,126	51.1	1,079	48.9	2,205
1976	40,399	93.2	2,957	6.8	43,356
1977	23,924	76.0	7,574	24.0	31,498
1978	20,174	91.9	1,778	8.1	21,952
1979	50,610	91.4	4,742	8.6	55,352
1980	58,190	91.5	5,380	8.5	63,570
1981	106,811	87.6	15,059	12.4	121,870
1982	57,646	91.8	5,121	8.2	62,767
1983	157,831	69.4	69,561	30.6	227,392
1984	404,738	95.7	18,330	4.3	423,068
1985	49,523	96.3	1,898	3.7	51,421
1986	110,572	93.7	7,434	6.3	118,006
1987	146,636	99.8	250	0.2	146,886
1988	16,465	85.2	2,855	14.8	19,320
1989	4,371	97.5	114	2.5	4,485
1990	65,671	51.1	62,928	48.9	128,599
1991	152,454	99.8	260	0.2	152,714
1992	93,564	99.7	281	0.3	93,845
1993	109,119	84.9	19,417	15.1	128,536
1994	142,350	100.0	0	0.0	142,350
1995	73,864	83.6	14,438	16.4	88,302
1996	123,625	97.2	3,576	2.8	127,201
Averages 1976-95	94,246	88.7	12,019	11.3	106,264
Averages 1986-95	91,507	89.4	10,798	10.6	102,304

[a] From 1970-91, the Chignik contribution is 80% of the sockeye salmon harvested in Beaver Bay, Balboa Bay, Southwest Stepovak, Stepovak Flats, and East Stepovak Sections.

[b] From 1992-95, the Chignik contribution is 80% of the sockeye salmon harvested in the Southeastern District Mainland fishery except Orzinski Bay where 100% of the sockeye salmon are considered local production.

-Continued-

[c] During the January 1996 meeting the BOF increased the area to be managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section will be managed on an allocation based on the strength of the Chignik sockeye salmon runs. Beginning July 1, the Northwest Stepovak Section will be managed entirely on local stocks. The BOF also decreased the percentage of sockeye salmon allocated to the SEDM fishery from 7% to 6% to attempt to maintain traditional harvest levels of Chignik bound sockeye in the SEDM fishery.

Appendix D.5. Southeastern District Mainland fishery, annual CFEC permits and number of landings by gear type, 1970-96.

	Purse Seine		Set Gillnet		Total	
Year	Permits	Landings	Permits	Landings	Permits	Landings
					0	
1970	35	127	17	273	52	400
1971	41	216	15	269	56	485
1972	24	43	15	167	39	210
1973	13	22	16	167	29	189
1974	20	100	31	262	51	362
1975	6	11	7	14	13	25
1976	44	167	19	174	63	341
1977	34	136	21	190	55	326
1978	45	196	23	235	68	431
1979	49	247	33	437	82	684
1980	40	143	31	598	71	741
1981	50	365	35	923	85	1,288
1982	48	343	41	1,167	89	1,510
1983	49	260	43	1,259	92	1,519
1984	55	292	57	2,171	112	2,463
1985	42	245	49	864	91	1,109
1986	42	150	47	927	89	1,077
1987	49	160	55	942	104	1,102
1988	55	254	49	784	104	1,038
1989	75	428	48	832	123	1,260
1990	74	228	58	683	132	911
1991	70	348	63	1,352	133	1,700
1992	59	178	60	1,267	119	1,445
1993	62	363	65	1,401	127	1,764
1994	61	106	61	1,302	122	1,408
1995	56	254	62	1,464	118	1,718
1996	29	92	68	1,711	97	1,803
Average 1976-95	53	243	46	949	99	1,192
Average 1986-95	60	247	57	1,095	117	1,342

Appendix D.6. Harvest of Chignik bound sockeye salmon in the Chignik, Cape Igvak, and Southeastern District Mainland Areas from 1964-96[a].

Year	Chignik Area Catch	Chignik Area Percent	Cape Igvak Catch	Cape Igvak Percent	Southeastern District Mainland Area Catch	Southeastern District Mainland Area Percent	Total
1964[b]	556,890	90.57	14,980	2.44	43,021	7	614,891
1965	599,553	89.94	11,021	1.65	56,020	8.4	666,594
1966	219,794	87.99	18,003	7.21	12,011	4.81	249,808
1967	462,000	91.48	23,014	4.56	20,021	3.96	505,035
1968	977,382	82.53	135,951	11.48	70,959	5.99	1,184,292
1969	394,135	78.96	97,982	19.63	7,013	1.41	499,130
1970[c]	1,325,734	72.51	434,394	23.76	68,181	3.73	1,828,309
1971	1,016,136	80.33	197,614	15.62	51,272	4.05	1,265,022
1972	378,218	87.99	33,865	7.88	17,752	4.13	429,815
1964-72 catch and percentage figures are total for the entire season. Catch figures and percentages after 1972 are only through July 25.							
1973[d]	769,258	89.01	57,348	6.64	37,613	4.35	864,219
1974	530,278	73.97	122,071	17.03	64,564	9.01	716,913
1975	115,984	81.78	23,635	16.67	2,205	1.55	141,824
1976	792,024	83.08	117,926	12.37	43,356	4.55	953,306
1977	1,547,285	90.61	128,852	7.55	31,498	1.84	1,707,635
1978[e,f]	1,454,389	85.38	227,014	13.33	21,952	1.29	1,703,355
1979[g]	794,504	91.98	13,950	1.61	55,352	6.41	863,806
1980	670,001	91.33	32	0.00	63,570	8.67	733,603
1981	1,606,300	79.88	282,727	14.06	121,870	6.06	2,010,897
1982	1,250,768	84.46	167,401	11.30	62,767	4.24	1,480,936
1983	1,450,832	72.68	318,048	15.93	227,392	11.39	1,996,272
1984	2,474,405	73.93	449,372	13.43	423,068	12.64	3,346,845
1985[h]	696,169	79.91	123,627	14.19	51,421	5.90	871,217
1986	1,456,729	82.64	188,017	10.67	118,006	6.69	1,762,752
1987	1,659,915	77.98	321,746	15.12	146,886	6.90	2,128,547
1988	678,912	95.70	11,218	1.58	19,320	2.72	709,450
1989	502,477	99.12	0	0.00	4,485	0.88	506,962
1990	1,211,097	83.67	107,706	7.44	128,599	8.88	1,447,402
1991[i]	1,966,986	80.48	324,329	13.27	152,714	6.25	2,444,029
1992[j]	1,066,732	81.25	152,358	11.60	93,845	7.15	1,312,935
1993	1,500,459	77.78	300,055	15.55	128,536	6.66	1,929,050
1994[k]	1,641,574	80.70	250,230	12.30	142,350	7.00	2,034,154
1995	1,033,808	80.04	169,530	13.13	88,302	6.84	1,291,640
1996[l]	1,714,566	79.74	308,327	14.34	127,201	5.92	2,150,094

[a] The Cape Igvak and Southeastern District Mainland figures represent 80% of the total sockeye catches for those areas based on the premise that 80% of the sockeye caught in the Cape Igvak Section and the Southeast District Mainland Area (excluding sockeye caught in Northwest Stepovak Section from 1964-1991 and in Orzinski Bay in 1992) are destined for Chignik.

-Continued-

[b] The data from 1964-1972 are based on total yearly catches. Prior to 1973, Cape Igvak and Southeastern District Mainland fisheries were set by regulation to weekly fishing periods, usually 5 days per week. Time modifications were implemented when poor escapements occurred at Chignik.

[c] Catches (1970-1992) were updated using historical electronic fish ticket databases.

[d] During 1973-1977 all three fisheries were managed on a day by day basis.

[e] From 1978-1996, the Cape Igvak Fishery management Plan allocated 15 percent of the total sockeye catch destined for Chignik.

[f] During 1978, seining prior to July 11 was disallowed in the Southeastern District Mainland. The set gillnet fishery was allowed to fish 3 days per week through July 10 after which the fishery was managed on the basis of local stocks.

[g] During 1979-1984 and prior to July 11, fishing was allowed 5 days per week in the Southeastern District Mainland Area with a ceiling of an estimated 60,000 sockeye destined for Chignik. If the Chignik Area sockeye catch was 1,000,000 or more before July 11, the 60,000 ceiling was to be dropped.

[h] During 1985-1988, Southeastern District Mainland Area (excluding the Northwest Stepovak Section from 1964-1991 and Orzinski Bay statistical area) was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye catch through July 25. After July 25, the Southeastern District Mainland is managed on a local stock basis. The allocation changed to 6.0 percent beginning in 1988. Seining is still not allowed prior to July 11.

[i] Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' boycott (Jun 23-Jul 4).

[j] Review of Orzinski Lake historical and current escapement records led the Alaska Board of Fisheries (BOF) to redefine the Southeastern District Mainland Management Plan. Beginning in 1992, the Southeastern District Mainland fishery (excluding Orzinski Bay) was placed on an allocation of 7.0 percent of the total estimated Chignik sockeye catch through July 25.

-Continued-

[k] Includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area seiners' strike (Jun 22-June 25).

[l] During the January 1996 meeting the BOF increased the area to be managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section will be managed on an allocation based on the strength of the Chignik sockeye salmon runs. Beginning July 1, the Northwest Stepovak Section will be managed entirely on local stocks. The BOF also decreased the percentage of sockeye salmon allocated to the SEDM fishery from

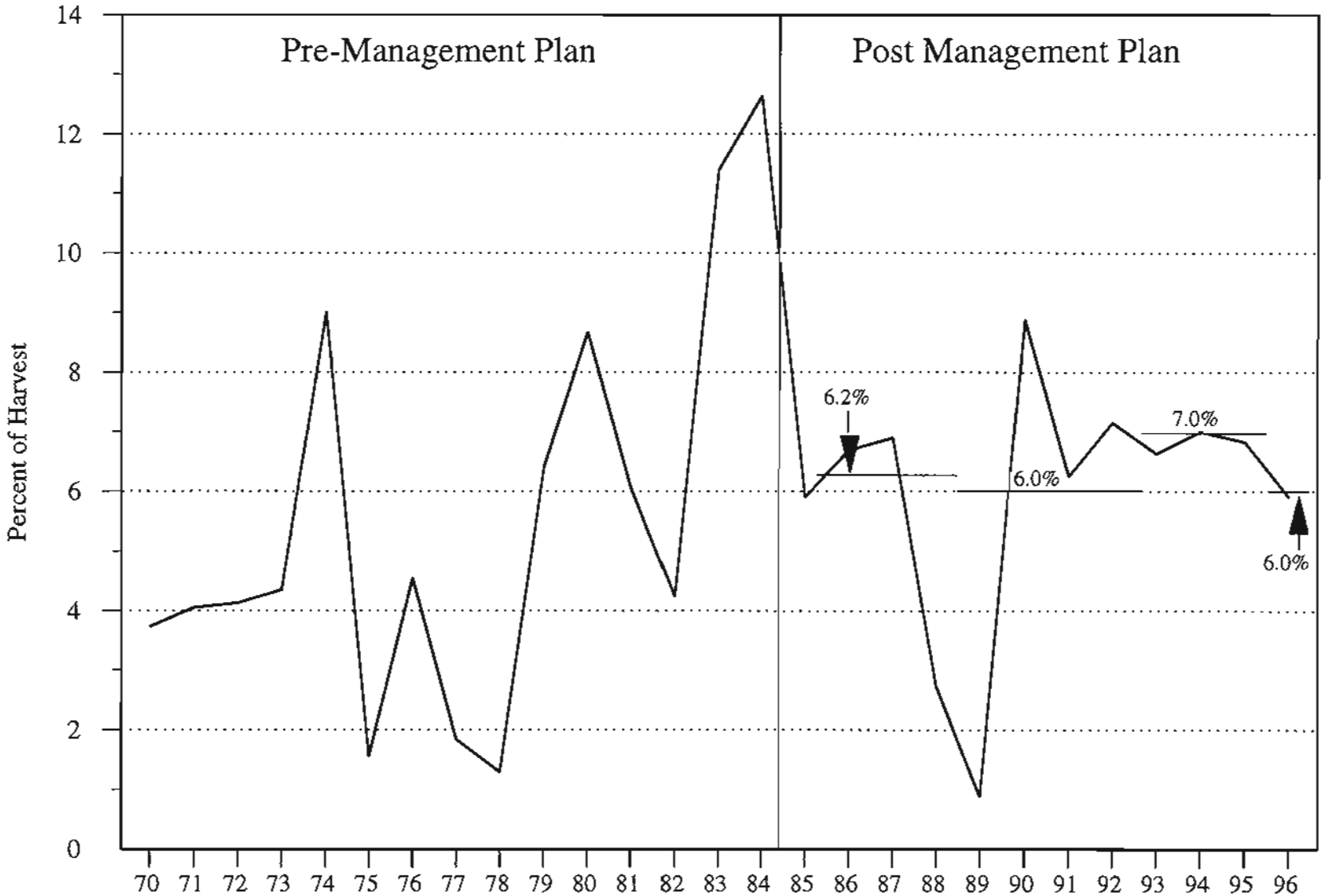
Appendix D.7. Total Chignik Management Area and 80 percent of the sockeye harvest in the Cape Igvak and Southeastern District Mainland Areas, 1964-96.[a]

	Harvest to July 25 Only				Harvest For Entire Season			
Year	Chignik	Cape Igvak	Southeastern Mainland	Total	Chignik	Cape Igvak	Southeastern Mainland	Total
1964	-	-	-	-	556,890	14,980	43,021	614,891
1965	-	-	-	-	599,553	11,021	56,020	666,594
1966	-	-	-	-	219,794	18,003	12,011	249,808
1967	-	-	-	-	462,000	23,014	20,021	505,035
1968	-	-	-	-	977,382	135,951	70,959	1,184,292
1969	-	-	-	-	394,135	97,982	7,013	499,130
1970	-	-	-	-	1,325,734	434,394	68,181	1,828,309
1971	-	-	-	-	1,016,136	197,614	51,272	1,265,022
1972	-	-	-		378,218	33,865	17,752	429,835
1973	769,258	57,348	37,613	864,219	870,354	57,348	38,266	965,968
1974	530,278	122,071	64,564	716,913	662,905	122,071	65,514	850,490
1975	115,984	23,635	2,205	141,824	399,593	23,635	2,205	425,433
1976	792,024	117,926	43,356	953,306	1,163,728	117,978	44,781	1,326,487
1977	1,547,285	128,852	31,498	1,707,635	1,972,207	128,852	35,401	2,136,460
1978	1,454,389	227,014	21,952	1,703,355	1,576,283	227,052	23,990	1,827,325
1979	794,504	13,950	55,352	863,806	1,049,497	20,436	82,153	1,152,086
1980	670,001	32	63,570	733,603	859,966	631	88,046	948,643
1981	1,606,300	282,727	121,870	2,010,897	1,839,469	284,211	166,034	2,289,714
1982	1,250,768	167,401	62,767	1,480,936	1,521,686	168,295	86,849	1,776,830
1983	1,450,832	318,048	227,392	1,996,272	1,824,175	323,004	297,429	2,444,608
1984	2,474,405	449,372	423,068	3,346,845	2,660,619	450,066	487,938	3,598,623
1985	696,169	123,627	51,421	871,217	922,151	125,134	93,206	1,140,491
1986	1,456,729	188,017	118,006	1,762,752	1,645,834	188,129	147,056	1,981,019
1987	1,659,915	321,746	146,886	2,128,547	1,898,838	344,357	188,983	2,432,178
1988	678,912	11,218	19,320	709,450	795,841	28,783	79,101	903,725
1989	502,477	-	4,485	506,962	1,159,287	-	138,594	1,297,881
1990	1,211,097	107,706	128,599	1,447,402	2,093,650	133,821	216,944	2,444,415
1991[b]	1,966,986	324,329	152,714	2,444,029	2,173,970	341,869	228,934	2,744,773
1992	1,066,732	152,358	93,845	1,312,935	1,277,449	156,318	177,713	1,611,480
1993	1,500,459	300,055	128,536	1,929,050	1,697,351	329,905	222,591	2,249,847
1994[c]	1,641,574	250,230	142,350	2,034,154	1,827,894	257,830	226,562	2,312,286
1995	1,033,808	161,771	88,302	1,283,881	1,724,045	188,837	269,806	2,182,688
1996	1,714,566	308,327	127,201	2,150,094	1,958,353	309,542	183,321	2,451,216

a Catches (1970-1992) were updated using historic electronic fish ticket databases.

b Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area Seiners' boycott (Jun 23-Jul 4).

c Includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area Seiners' strike (Jun 22-Jun 25).



Appendix D.8. Chignik bound sockeye salmon harvest in the Southeastern District Mainland fishery, through July 25, 1970-96.

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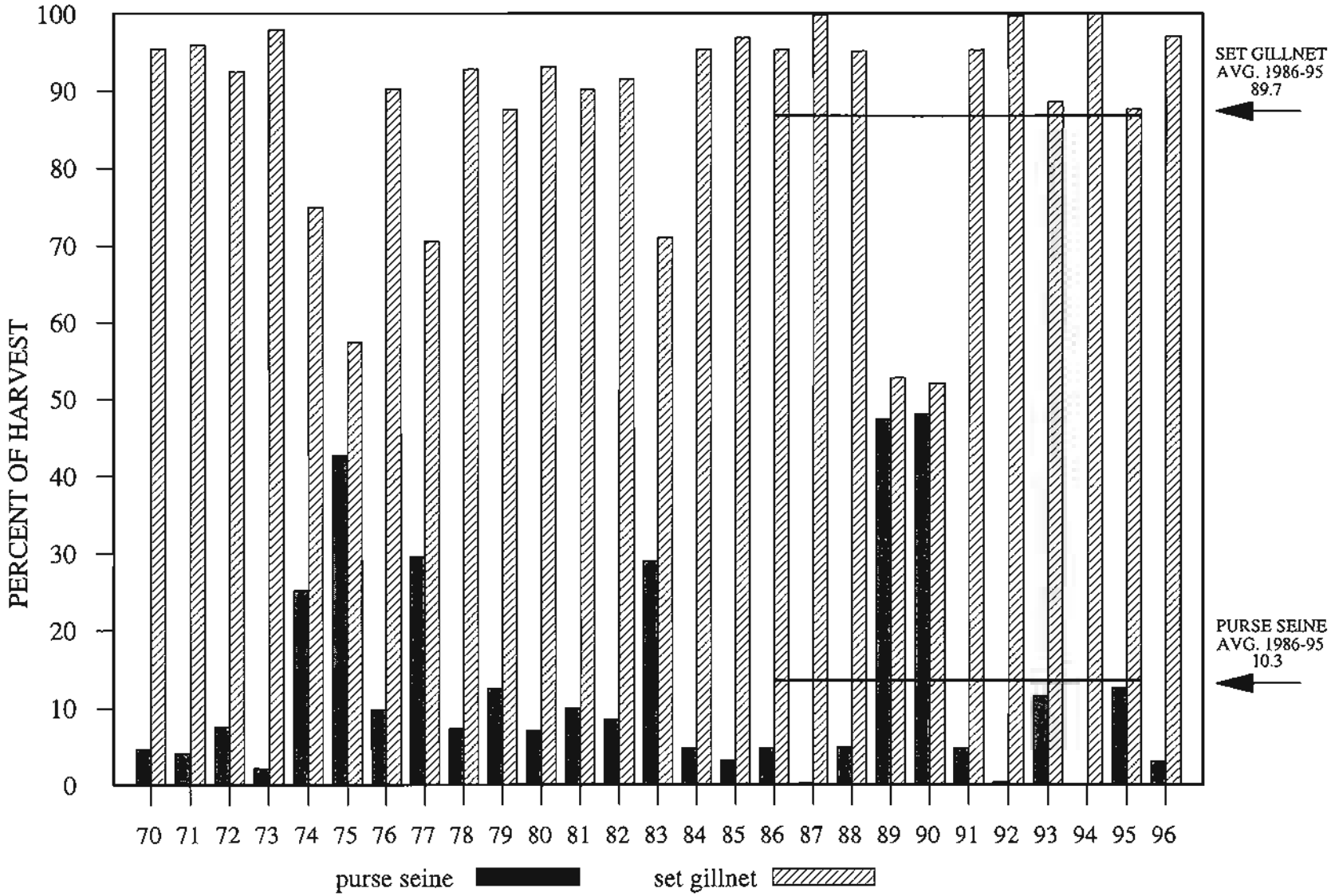

Appendix D.9. Southeastern District Mainland fishery commercial sockeye salmon harvest, in percent of harvest, by gear, through July 25, 1970-96.

pg-sedmsock
2/7/97

Appendix D.10. Southeastern District Mainland commercial sockeye salmon harvest, by gear, for the entire season, 1970-96.[a]

	Catch by Gear				
	Set Net		Purse Seine		
Year	Number	Percent	Number	Percent	Total Catch
1970	81,259	95.1	4,158	4.9	85,417
1971	61,037	95.1	3,141	4.9	64,178
1972	19,957	89.9	2,233	10.1	22,190
1973	46,586	97.2	1,346	2.8	47,932
1974	66,200	74.0	23,219	26.0	89,419
1975	1,807	57.3	1,349	42.7	3,156
1976	54,190	90.4	5,725	9.6	59,915
1977	35,410	73.1	13,053	26.9	48,463
1978	30,229	87.1	4,462	12.9	34,691
1979	89,863	71.2	36,270	28.8	126,133
1980	115,978	89.0	14,344	11.0	130,322
1981	226,820	87.4	32,719	12.6	259,539
1982	109,867	93.1	8,165	6.9	118,032
1983	284,735	72.2	109,489	27.8	394,224
1984	617,011	90.7	63,634	9.3	680,645
1985	119,672	86.8	18,219	13.2	137,891
1986	224,333	91.4	21,178	8.6	245,511
1987	290,042	96.9	9,421	3.1	299,463
1988	125,509	79.2	32,865	20.8	158,374
1989	151,745	53.8	130,549	46.2	282,294
1990	158,065	57.0	119,395	43.0	277,460
1991	336,238	84.8	60,417	15.2	396,655
1992	283,927	86.8	43,267	13.2	327,194
1993	271,750	82.1	59,265	17.9	331,015
1994	305,447	92.5	24,832	7.5	330,279
1995	315,754	79.0	83,721	21.0	399,475
1996	337,310	93.4	23,873	6.6	361,183
Average 1976-95	207,329	82.3	44,550	17.7	251,879
Average 1986-95	246,281	80.8	58,491	19.2	304,772

[a] Set gillnet gear only prior to July 11 since 1978 season.

Appendix D.11. Estimated Orzinski sockeye salmon runs and total Southeastern District Mainland sockeye salmon harvest, 1935-96.

Year	Escapement	Orzinski and American Bay Catch	Balance of Suzy Creek Dent Point Catch	Total Suzy Creek Dent Point Catch	Total Orzinski Run	Total Southeastern Mainland Catch
1935[a]	28,474					
1936[a]	31,720					
1937[a]	15,393					
1938[a,b]	8,675					
1939[a]	10,414					
1940[a]	16,414					
1941[a]	8,241					
1942-61	No data available.					
1962	5,000[c]					
1963	7,600[c]					
1964	5,800[c]					
1965	6,000[c]					
1966	10,000[c]					
1967	6,200[c]					
1968	3,600[c]					
1969	19,200[c]					
1970	4,500[c]					
1971	11,000[c]					
1972	6,500[c]					
1973	1,200[c]					
1974	61,500[c]					
1975	22,300[c]					
1976	29,600[c]					
1977	17,000[c]					
1978	22,000[c]					
1979	20,000[c]					
1980	12,000[c]					
1981	18,000[c]	19,385 [e]	32,612	51,997	69,997 [g]	259,539
1982	9,000[c]	6,079 [e]	3,392	9,471	18,471 [g]	118,032
1983	21,300[c]	10,814 [e]	11,624	22,438	43,738 [g]	394,224
1984	18,600[c]	18,603 [e]	52,119	70,722	89,322 [g]	680,645
1985	14,000[c]	5,061 [e]	16,322	21,383	35,383 [g]	137,891
1986	10,300[c]	12,455 [e]	49,236	61,691	71,991 [g]	245,511
1987	11,400[c]	14,463 [e]	48,771	63,234	74,634 [g]	299,463
1988	19,300[c]	14,462 [e]	45,036	59,498	78,798 [g]	158,374
1989	16,700[c]	18,476 [e]	90,576	109,052	125,752 [g]	282,294
1990	15,000[d]	1,257 [e]	5,023	6,280	21,280 [g]	277,460
1991	40,000[d]	50,496 [e]	59,991	110,487	150,487 [g]	396,655
1992	25,000[d]	105,050 [f]	23,539	128,589	130,050 [h]	327,194
1993	24,717[d]	52,776 [f]	37,894	90,670	77,493 [h]	331,015

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Year	Escapement	Orzinski and American Bay Catch	Balance of Suzy Creek Dent Point Catch	Total Suzy Creek Dent Point Catch	Total Orzinski Run	Total Southeastern Mainland Catch
1994	38,000[d]	47,077 [i]	60,628	107,705	85,077 [h]	330,279
1995	30,000[d]	62,220 [f]	42,686	104,906	92,220 [h]	399,475
1996	30,000[d]	134,602 [i]	0	144,882	164,602 [j]	361,183

[a] Weir was used to count escapement.

[b] In 1938, adverse weather conditions may have caused only part of the run to be counted.

[c] Escapement counts are indexed total escapements and are likely lower than the actual total.

[d] Escapement count is the sum of weir counts plus aerial surveys conducted after the weir was removed.

[e] Catch number is for Orzinski and American Bays only.

[f] Catch number is for Orzinski Bay only.

[g] The total Orzinski run is escapement plus total Suzy Creek to Dent Point catch.

[h] The total Orzinski run is escapement plus Orzinski Bay catch.

[i] Catch number is 20% of the Northwest Stepovak Section harvest from June 1-30, and 100% of the Northwest Stepovak Section catch beginning July 1. Catch number excludes 10,280 sockeye salmon caught in the Northwest Stepovak Section during June that were considered Chignik bound.

[j] The total Orzinski run is escapement plus 20% of the Northwest Stepovak Section harvest from June 1-30, and 100% of the Northwest Stepovak Section catch beginning July 1.

Appendix D.12. Northwest Stepovak Section commercial salmon harvest, all gear combined, by species, and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
11-Jun	6	6	0	590	0	1	2	593
12-Jun	6	6	2	959	0	1	9	971
13-Jun	9	12	0	1,837	0	0	9	1,846
18-Jun	10	14	1	1,639	0	0	204	1,844
19-Jun [a]	*	*	*	*	*	*	*	*
20-Jun	11	14	14	4,302	0	0	87	4,403
21-Jun	6	7	3	2,752	0	0	32	2,787
3-Jul	42	48	21	7,988	46	109	546	8,710
4-Jul	41	52	8	11,307	48	336	1,065	12,764
5-Jul	43	57	2	14,432	24	475	1,091	16,024
6-Jul	37	42	21	8,537	25	264	546	9,393
7-Jul	34	43	12	5,743	38	683	573	7,049
8-Jul	19	23	2	4,939	5	256	295	5,497
9-Jul	17	18	3	7,380	10	1,308	693	9,394
10-Jul	22	26	1	5,296	53	1,042	1,640	8,032
12-Jul	37	41	6	4,721	35	2,247	1,203	8,212
13-Jul	38	40	2	6,256	47	3,630	1,534	11,469
14-Jul	26	30	5	6,289	27	2,521	1,083	9,925
15-Jul	25	32	3	5,122	8	2,163	708	8,004
16-Jul	23	33	2	8,727	62	2,248	1,088	12,127
17-Jul	20	22	1	4,712	33	1,809	760	7,315
18-Jul	14	14	1	1,726	6	1,002	439	3,174
21-Jul	20	27	3	4,546	40	2,865	1,022	8,476
22-Jul	21	26	2	3,633	100	2,477	1,039	7,251
23-Jul	22	31	9	5,845	223	6,153	1,897	14,127
24-Jul	16	24	1	5,377	258	5,807	1,884	13,327
25-Jul	17	22	4	2,499	115	4,070	1,357	8,045
26-Jul	15	20	5	3,508	234	5,201	1,623	10,571
28-Jul	6	6	0	741	51	1,289	275	2,356
29-Jul	8	10	1	608	19	2,533	485	3,646
30-Jul	7	8	0	534	48	1,797	463	2,842
2-Aug [a]	*	*	*	*	*	*	*	*
3-Aug [a]	*	*	*	*	*	*	*	*
1-Sep	7	8	0	240	288	7	219	754
2-Sep	7	7	0	281	213	0	299	793
3-Sep	5	7	0	303	335	0	170	808
6-Sep [a]	*	*	*	*	*	*	*	*
7-Sep [a]	*	*	*	*	*	*	*	*
10-Sep [a]	*	*	*	*	*	*	*	*
11-Sep [a]	*	*	*	*	*	*	*	*
Total	70	789	135	144,882	2,545	54,857	24,811	227,230

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			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
TOTAL JULY 1-SEPTEMBER 11								
	69	729	115	132,032	2,545	54,855	24,441	213,988

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix D.13. Southeastern District Mainland commercial salmon harvest, all gear combined, by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
11-Jun	27	29	10	4,461	0	80	229	4,780
12-Jun	43	58	34	14,381	0	51	359	14,825
13-Jun	47	75	18	14,720	0	69	323	15,130
18-Jun	41	56	17	18,722	0	0	1,039	19,778
19-Jun	36	45	1	23,307	4	0	1,091	24,403
20-Jun	40	55	24	20,064	0	4	1,020	21,112
21-Jun	32	33	11	12,104	2	1	414	12,532
3-Jul	42	48	21	7,988	46	109	546	8,710
4-Jul	41	52	8	11,307	48	336	1,065	12,764
5-Jul	43	57	2	14,432	24	475	1,091	16,024
6-Jul	39	45	23	9,093	26	278	686	10,106
7-Jul	34	43	12	5,743	38	683	573	7,049
8-Jul	19	23	2	4,939	5	256	295	5,497
9-Jul	44	51	6	15,133	132	2,394	1,555	19,220
10-Jul	51	58	4	18,141	283	3,083	4,152	25,663
12-Jul	38	42	6	4,735	35	2,253	1,242	8,271
13-Jul	38	40	2	6,256	47	3,630	1,534	11,469
14-Jul	26	30	5	6,289	27	2,521	1,083	9,925
15-Jul	25	32	3	5,122	8	2,163	708	8,004
16-Jul	24	34	2	8,827	62	2,273	1,090	12,254
17-Jul	64	77	42	15,118	414	7,672	3,405	26,651
18-Jul	55	57	19	12,976	212	5,095	2,269	20,571
21-Jul	20	27	3	4,546	40	2,865	1,022	8,476
22-Jul	21	26	2	3,633	100	2,477	1,039	7,251
23-Jul	22	32	9	5,940	224	6,278	2,007	14,458
24-Jul	54	62	33	13,221	1,584	19,607	4,744	39,189
25-Jul	18	23	6	2,878	485	7,203	1,897	12,469
26-Jul	45	64	43	16,986	2,559	47,445	8,911	75,944
28-Jul	32	42	100	9,786	1,046	33,815	7,750	52,497
29-Jul	41	56	65	12,248	1,452	59,143	11,744	84,652
30-Jul	32	47	12	4,289	1,058	15,628	3,625	24,612
2-Aug	26	33	30	2,579	494	12,590	4,319	20,012
3-Aug	25	40	7	3,040	1,049	15,738	4,239	24,073
6-Aug	10	19	2	1,905	472	6,405	984	9,768
7-Aug	13	21	2	3,704	745	10,429	2,110	16,990
1-Sep	34	35	2	1,525	1,302	36	494	3,359
2-Sep	36	38	0	2,860	1,492	52	743	5,147
3-Sep	32	38	0	2,397	1,618	17	619	4,651
6-Sep	22	25	0	1,687	850	0	193	2,730
7-Sep	23	31	0	1,586	807	0	204	2,597
10-Sep	19	22	0	1,126	547	0	51	1,724

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11-Sep	24	28	0	1,855	730	0	76	2,661
12-Sep	7	10	0	1,058	447	0	0	1,505
13-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*
17-Sep	7	7	1	1,444	365	0	0	1,810
18-Sep [a]	*	*	*	*	*	*	*	*
19-Sep	5	7	0	1,263	226	0	0	1,489
20-Sep [a]	*	*	*	*	*	*	*	*
23-Sep [a]	*	*	*	*	*	*	*	*
24-Sep	6	6	0	567	129	0	0	696
25-Sep [a]	*	*	*	*	*	*	*	*
26-Sep	4	4	1	1,550	177	0	0	1,728
27-Sep [a]	*	*	*	*	*	*	*	*
1-Oct [a]	*	*	*	*	*	*	*	*
2-Oct [a]	*	*	*	*	*	*	*	*
4-Oct [a]	*	*	*	*	*	*	*	*
9-Oct [a]	*	*	*	*	*	*	*	*
11-Oct [a]	*	*	*	*	*	*	*	*
17-Oct [a]	*	*	*	*	*	*	*	*
Total	97	1,803	590	361,183	22,019	273,154	82,543	739,489
Totals Through July 25	89	1,210	325	284,076	3,846	71,856	36,478	396,581
Totals From September 1 - October 17	41	271	4	22,570	9,298	105	2,383	34,360

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix D.14. Southeastern District Mainland commercial purse seine salmon harvest by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
12-Jul	9	9	5	810	0	591	427	1,833
13-Jul	6	6	1	1,287	0	977	316	2,581
14-Jul [a]	*	*	*	*	*	*	*	*
15-Jul [a]	*	*	*	*	*	*	*	*
17-Jul	13	13	30	2,268	184	3,215	1,370	7,067
18-Jul [a]	*	*	*	*	*	*	*	*
22-Jul [a]	*	*	*	*	*	*	*	*
23-Jul [a]	*	*	*	*	*	*	*	*
24-Jul	10	10	26	2,213	371	8,296	1,394	12,300
25-Jul [a]	*	*	*	*	*	*	*	*
26-Jul	8	9	33	5,922	1,313	32,791	4,784	44,843
28-Jul	11	11	99	4,146	711	26,410	5,646	37,012
29-Jul	13	14	61	5,317	808	46,057	8,195	60,438
30-Jul	5	5	11	225	227	3,698	418	4,579
2-Aug [a]	*	*	*	*	*	*	*	*
3-Aug [a]	*	*	*	*	*	*	*	*
7-Aug [a]	*	*	*	*	*	*	*	*
Total	29	92	309	23,873	4,558	135,274	27,735	191,749

[a] Confidentiality requirements prohibit reporting harvests by day.

Appendix D.15. Southeastern District Mainland commercial set gillnet salmon harvest by species and day, 1996.

			Number of Salmon					
Date	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
11-Jun	27	29	10	4,461	0	80	229	4,780
12-Jun	43	58	34	14,381	0	51	359	14,825
13-Jun	47	75	18	14,720	0	69	323	15,130
18-Jun	41	56	17	18,722	0	0	1,039	19,778
19-Jun	36	45	1	23,307	4	0	1,091	24,403
20-Jun	40	55	24	20,064	0	4	1,020	21,112
21-Jun	32	33	11	12,104	2	1	414	12,532
3-Jul	42	48	21	7,988	46	109	546	8,710
4-Jul	41	52	8	11,307	48	336	1,065	12,764
5-Jul	43	57	2	14,432	24	475	1,091	16,024
6-Jul	39	45	23	9,093	26	278	686	10,106
7-Jul	34	43	12	5,743	38	683	573	7,049
8-Jul	19	23	2	4,939	5	256	295	5,497
9-Jul	44	51	6	15,133	132	2,394	1,555	19,220
10-Jul	51	58	4	18,141	283	3,083	4,152	25,663
12-Jul	29	33	1	3,925	35	1,662	815	6,438
13-Jul	32	34	1	4,969	47	2,653	1,218	8,888
14-Jul	25	29	5	5,793	27	1,495	1,002	8,322
15-Jul	24	31	3	4,987	8	1,985	644	7,627
16-Jul	24	34	2	8,827	62	2,273	1,090	12,254
17-Jul	51	64	12	12,850	230	4,457	2,035	19,584
18-Jul	53	55	13	12,815	209	4,886	2,178	20,101
21-Jul	20	27	3	4,546	40	2,865	1,022	8,476
22-Jul	20	25	2	3,612	84	2,416	1,035	7,149
23-Jul	20	30	6	5,846	191	4,893	1,675	12,611
24-Jul	44	52	7	11,008	1,213	11,311	3,350	26,889
25-Jul	17	22	4	2,499	115	4,070	1,357	8,045
26-Jul	37	55	10	11,064	1,246	14,654	4,127	31,101
28-Jul	21	31	1	5,640	335	7,405	2,104	15,485
29-Jul	28	42	4	6,931	644	13,086	3,549	24,214
30-Jul	27	42	1	4,064	831	11,930	3,207	20,033
2-Aug	24	31	2	2,412	390	9,776	2,175	14,755
3-Aug	23	38	4	2,927	704	12,759	3,124	19,518
6-Aug	10	19	2	1,905	472	6,405	984	9,768
7-Aug	10	18	1	3,585	672	8,975	1,296	14,529
1-Sep	34	35	2	1,525	1,302	36	494	3,359
2-Sep	36	38	0	2,860	1,492	52	743	5,147
3-Sep	32	38	0	2,397	1,618	17	619	4,651
6-Sep	22	25	0	1,687	850	0	193	2,730
7-Sep	23	31	0	1,586	807	0	204	2,597
10-Sep	19	22	0	1,126	547	0	51	1,724
11-Sep	24	28	0	1,855	730	0	76	2,661
12-Sep	7	10	0	1,058	447	0	0	1,505
13-Sep [a]	*	*	*	*	*	*	*	*
16-Sep [a]	*	*	*	*	*	*	*	*

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17-Sep	7	7	1	1,444	365	0	0	1,810
18-Sep [a]	*	*	*	*	*	*	*	*
19-Sep	5	7	0	1,263	226	0	0	1,489
20-Sep [a]	*	*	*	*	*	*	*	*
23-Sep [a]	*	*	*	*	*	*	*	*
24-Sep	6	6	0	567	129	0	0	696
25-Sep [a]	*	*	*	*	*	*	*	*
26-Sep	4	4	1	1,550	177	0	0	1,728
27-Sep [a]	*	*	*	*	*	*	*	*
1-Oct [a]	*	*	*	*	*	*	*	*
2-Oct [a]	*	*	*	*	*	*	*	*
4-Oct [a]	*	*	*	*	*	*	*	*
9-Oct [a]	*	*	*	*	*	*	*	*
11-Oct [a]	*	*	*	*	*	*	*	*
17-Oct [a]	*	*	*	*	*	*	*	*
Total	68	1,711	281	337,310	17,461	137,880	54,808	547,740

[a] Confidentiality requirements prohibit reporting harvest by day.

Appendix E.1. South Peninsula emergency order summary, 1996.

EMERGENCY ORDER NO. 4-FS-M-CB-01-96
EFFECTIVE DATE: June 1, 1996

EXPLANATION: This emergency order:
(1) Delays the commercial salmon season until June 24 in the Urilia Bay Section.

(2) Closes all Sanak Island waters to commercial salmon fishing through June 30. This includes all waters south of the latitude of Hague Rock and east of the longitude of cape Pankof south of the latitude of Hague Rock.

JUSTIFICATION: The early portion of the Urilia Bay sockeye run has been weakened by intense early fishing pressure in the past. Delaying the fishery until June 24, or until the escapement justifies an earlier fishery, is necessary to rebuild the early portion of the run.

The area around Sanak Island has produced high chum to sockeye rations in the past. There is a limit to the number of chum salmon that can be taken in the South Unimak and Shumagin Island June Fisheries. This means that the Fishery will close before the sockeye allocation is reached if the chum limit is reached first.

Historically commercial salmon fishing records indicate a very limited to non-existent fishing effort around Sanak Island, although in 1990 and 1991, fishing interest increased. Even though the fishing effort was light (i.e. less than four boats) the corresponding catch per unit of effort combined with the high chum per sockeye ratio could result in substantial numbers of chum salmon being harvested, if effort were to increase.

EMERGENCY ORDER NO. 4-FS-M-SP-01-96
EFFECTIVE DATE: 11:00 A.M., June 11, 1996

EXPLANATION: This emergency order allows a 27 hour salmon fishing period from 11:00 A.M., Tuesday, June 11, 1996 until 2:00 P.M. Wednesday, June 12, 1996 in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.

JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon through July 25 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of 5:00 P.M. June 9, was about 9,500 salmon for a total sockeye escapement of 57,000 salmon. The first run interim escapement goal of 40,000 sockeye salmon by June 12 has been surpassed, and the June 14 goal of 65,000 should be achieved on June 10.

In the Chignik Management Area, the Chignik Bay, Eastern, and Central Districts will open to commercial salmon fishing at 11:30 A.M. Monday, June 10.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye salmon will exceed 600,000 . At this time the department believes that the early run is as strong as predicted based on escapement to date.

A 27 hour fishing period from 11:00 A.M. Tuesday, June 11 until 2:00 P.M. Wednesday, June 12 in the Southeastern District Mainland area will give fishers the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-SP-02-96
EFFECTIVE DATE: 2:00 p.m., June 12, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections, from 2:00 p.m. Wednesday, June 12 until 2:00 p.m. Thursday, June 13, 1996.

JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon prior to July 26 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of midnight June 11, was 6,866 salmon for a total sockeye escapement of 95,824 salmon. The first run interim escapement goal of 65,000 sockeye salmon by June 14 has been surpassed, and the June 16 goal of 100,000 should be achieved on June 12.

The Chignik Bay, Eastern, and Central Districts of the Chignik Management Area opened to commercial fishing at 11:30 a.m. Monday, June 10. In the Chignik Management Area approximately 52,384 sockeye salmon have been harvested through 10:00 a.m. on June 12.

The Cape Igvak Section of the Kodiak Management Area, opened to commercial salmon fishing at 12:01 a.m. Wednesday, June 12.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye will exceed 600,000. At this time the department believes that the early run is as strong as predicted based on catch and escapement to date.

The preliminary harvest in the Southeastern District Mainland area for June 12 included 3,784 sockeye salmon (80% Chignik harvest was 3,027 sockeye). Based on preliminary harvest reports from both the Southeastern District Mainland, and the Chignik Management Area, a 24 hour extension of the current fishing period from 2:00 p.m. Wednesday, June 12 until 2:00 p.m. Thursday, June 13 in the Southeastern District Mainland area is warranted. This extension will give fishers the opportunity to harvest sockeye salmon toward the 6% allocation as specified in AAC 09.360.

EMERGENCY ORDER NO. 4-FS-M-SP-03-96
EFFECTIVE DATE: 2:00 p.m., June 13, 1996

EXPLANATION: This emergency order allows a 6 hour extension of the current commercial salmon fishing period in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections, from 2:00 p.m. Thursday, June 13, until 8:00 p.m. Thursday, June 13, 1996.

JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon prior to July 26 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of midnight June 12, was 6,315 salmon for a total sockeye escapement of 99,139 salmon. The first run interim escapement goal of 65,000 sockeye salmon by June 14 has been surpassed, and the June 16 goal of 100,000 should be achieved on June 13.

The Chignik Bay, Eastern, and Central Districts of the Chignik Management Area opened to commercial fishing at 11:30 a.m. Monday, June 10. In the Chignik Management Area approximately 87,536 sockeye salmon have been harvested through 10:00 a.m. on June 13.

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The Cape Igvak Section of the Kodiak Management Area, opened to commercial salmon fishing at 12:01 a.m. Wednesday, June 12. In the Cape Igvak Section approximately 16,420 (80% Chignik harvest figure) sockeye salmon were harvested through 10:00 a.m. Thursday, June 13, 1996.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye will exceed 600.000. At this time the department believes that the early run is as strong as predicted based on catch and escapement to date.

The preliminary harvest in the Southeastern District Mainland area, through 10:00 a.m. June 13, included 18,773 sockeye salmon (80% Chignik harvest figure is 15,018). Based on preliminary harvest reports from the Southeastern District Mainland, the Cape Igvak Section of the Kodiak Management Area, and the Chignik Management Area, a 6 hour extension of the current fishing period from 2:00 p.m. Thursday, June 13 until 8:00 p.m. Thursday, June 13 in the Southeastern District Mainland area is warranted. This extension will give fishers the opportunity to harvest sockeye salmon toward the 6% allocation as specified in AAC 09.360.

EMERGENCY ORDER N0. 4-FS-M-CB-02-96
EFFECTIVE DATE: 6:00 a.m., June 15, 1996

EXPLANATION: A 6:00 a.m. until 3:00 p.m. commercial salmon fishing period is established for seine and drift gillnet gear in the South Unimak Fishery during Saturday, June 15. A 6:00 a.m. until 10:00 p.m. fishing period is established for set gillnet gear in the South Unimak Fishery during Saturday, June 15.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

Test fish results over the past two days at South Unimak have been variable. The majority of the test sets over the last two days have produced favorable sockeye to chum ratios, however the overall ratio remains low because several sets landed a substantial number of chums. A commercial salmon fishing period has not yet occurred due to poor sockeye to chum salmon ratios in the test fishery. A nine hour commercial salmon fishing period will allow the fleet to determine the abundance and availability of sockeye and chum salmon in South Unimak waters.

A commercial fishing period at this time is warranted. The historical peak timing of the sockeye run has often passed South Unimak by June 23 and the abundance of chum salmon in the fishery can increase during the last week of June. Further delay of the fishery and compression of fishing time will impact fish quality and the ability of the processors to handle a volume of fish during the peak of the run should the abundance and availability of sockeye salmon dramatically increase. Furthermore, the opportunity to fish in the near future may be restricted due to weather. The National Weather Service forecasts Southeast winds to 35 m.p.h. and 16 foot seas to occur on June 16.

Fishing time is needed to harvest the sockeye G.H.L.. A 9 hour fishing period for seine and drift gillnet gear will allow fishermen the opportunity to harvest sockeye without catching an unacceptable high number of chum salmon should the sockeye to chum ratio be poor.

Set net gear is guaranteed a 16 hour fishing period if the fishing period for other gear types is less than 16 hours as specified under (g) in the Board of Fisheries adopted management plan.

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EMERGENCY ORDER N0. 4-FS-M-CB-03-96
EFFECTIVE DATE: 3:00 p.m., June 15, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional seven hours until 10:00 p.m. Saturday, June 15 for drift gillnet and seine gear in the South Unimak fishery. A 6:00 a.m. until 10:00 p.m. fishing period is established for set gillnet gear in the South Unimak Fishery during Saturday, June 15 by previous emergency order.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

Catch reports from fishermen and processors in the Cape Lutke, Cape Lazaref and Cape Pankof area all indicate favorable sockeye to chum salmon harvest ratios. These ratios have ranged from 3:1 to as high as 10:1 however, the reports have been consistent in specifying a low volume of fish. Fishing time is needed to harvest the sockeye G.H.L.. A 7 hour fishing period extension for seine and drift gillnet gear will allow fishermen the opportunity to harvest sockeye without catching an unacceptable high number of chum salmon should the sockeye to chum ratio be poor.

EMERGENCY ORDER N0. 4-FS-M-CB-04-96
EFFECTIVE DATE: 3:00 p.m., June 16, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 17 hours until 3:00 p.m. Sunday, June 16 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

Fishermen continue to report high sockeye to chum salmon ratios but low volume. It appears unlikely that a large chum salmon harvest will occur in the next 17 hours and it appears that fishing time will have to be maximized for the fishermen to harvest their guideline harvest level.

EMERGENCY ORDER N0. 4-FS-M-CB-05-96
EFFECTIVE DATE: 3:00 p.m., June 16, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Monday, June 17 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

To date only 53,700 sockeye and 11,500 chum salmon have been harvested in the South Unimak fishery and little if any fishing will occur today due to gale force winds. More fishing time is needed to for fishermen to harvest their guideline harvest level while there is no danger of reaching the chum harvest cap.

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EMERGENCY ORDER N0. 4-FS-M-CB-06-96
EFFECTIVE DATE: 3:00 p.m., June 17, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Tuesday, June 18 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The total catch date is only 66,078 sockeye and 13,644 chum salmon (there has not yet been a commercial fishing period in the Shumagin Islands Section). Reports from the grounds indicate that the sockeye to chum ratio is high but the volume is low. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-04-96
EFFECTIVE DATE: 6:00 a.m., June 18, 1996

EXPLANATION: This emergency order allows a 12 hour commercial salmon purse seine fishing period from 6:00 a.m. Tuesday, June 18 until 6:00 p.m. Tuesday, June 18 in the Shumagin Islands Section. This emergency order also allows a 16 hour commercial salmon set gillnet fishing period from 6:00 a.m. Tuesday, June 18 until 10:00 p.m., Tuesday, June 18 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The Shumagin Islands Section fishery's entire GHL remains to be harvested. The June 16 test fishery resulted in a sockeye to chum salmon ratio of 0.67:1.0. However, the average catch of chum salmon per set has declined over the past four days. The June 17 test fishery was cancelled due to adverse weather conditions, including winds gusting to 50 knots.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. Test fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan. A twelve hour commercial test fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios are realized the purse seine fishery could be extended.

Based upon subsection (g) of the June salmon management plan, set gillnet fishermen will be allowed fishing periods of not less than 16 hours, unless a fishing period over 16 hours will result in a harvest that exceeds the 700,000 chum salmon maximum incidental annual harvest or exceeds the sockeye salmon allocation.

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EMERGENCY ORDER NO. 4-FS-M-SP-05-96
EFFECTIVE DATE: 10:00 a.m., June 18, 1996

EXPLANATION: This emergency order allows a 31 hour salmon fishing period from 10:00 a.m., Tuesday, June 18, 1996 until 5:00 p.m. Wednesday, June 19, 1996 in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.

JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon through July 25 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of 12:00 midnight June 16, was 3,936 salmon for a total sockeye escapement of 112,695 salmon. The first run interim escapement goal of 100,000 sockeye salmon by June 16 has been surpassed, and the June 18 goal of 150,000 should be achieved.

In the Chignik Management Area approximately 250,129 sockeye salmon have been harvested through 3:00 p.m. on June 15. The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 5:00 p.m. Monday, June 17 until 5:00 p.m. Tuesday, June 18.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 100,320 (80% Chignik bound harvest figure) sockeye salmon through 12:01 a.m. June 15.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye salmon will exceed 600,000 . At this time the department believes that the early run is as strong as predicted based on catch and escapement to date.

In the Southeastern District Mainland area the estimated total sockeye harvest to date is 33,554. The 80% Chignik harvest figure is 26,843 salmon for approximately 7% of the total Chignik sockeye harvest to date. A 31 hour fishing period from 10:00 a.m. Tuesday, June 18 until 5:00 p.m. Wednesday, June 19 in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

EMERGENCY ORDER N0. 4-FS-M-CB-07-96
EFFECTIVE DATE: 3:00 p.m., June 18, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Wednesday, June 19 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The total catch date is only 138,091 sockeye and 21,992 chum salmon. Reports from the grounds indicate that the sockeye to chum ratio is high but the volume remains low. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

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EMERGENCY ORDER NO. 4-FS-M-SP-06-96
EFFECTIVE DATE: 6:00 p.m., June 18,1996

EXPLANATION: This emergency order allows a 21 hour extension of the current commercial salmon purse seine fishing period from 6:00 p.m. Tuesday, June 18 until 3:00 p.m. Wednesday, June 19 in the Shumagin Islands Section. This emergency order also allows a 17 hour extension of the current commercial salmon set gillnet fishing period from 10:00 p.m. Tuesday, June 18 until 3:00 p.m., Wednesday, June 19 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

Harvest reports for the Shumagin Islands Section will not be available until tomorrow morning. However, fishermen reported a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen have left areas producing poor sockeye to chum ratios(less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 21 hour extension of the current commercial fishing period for purse seine gear and a 17 hour extension for set gillnet gear will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER N0. 4-FS-M-CB-08-96
EFFECTIVE DATE: 3:00 p.m., June 19, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Thursday, June 20 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak catch date is only 191,593 sockeye and the total South Unimak - Shumagin chum harvest is 45,057 chum salmon. Reports from the grounds indicate that the sockeye to chum ratio is high but the volume remains low. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-07-96
EFFECTIVE DATE: 3:00 p.m., June 19, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Wednesday, June 19 until 3:00 p.m. Thursday, June 20 in the Shumagin Islands Section.

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JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 18 in the Shumagin Islands Section.was 54,218 salmon, composed of 65 chinook, 28,316 sockeye, 12,835 pink, and 13,002 chum salmon. The sockeye to chum salmon ratio for June 18 was 2.18 to 1.0. About 537,684 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-08-96
EFFECTIVE DATE: 5:00 p.m., June 19, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 5:00 p.m., Wednesday, June 19, 1996 until 5:00 p.m. Thursday, June 20, 1996 in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.

JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon through July 25 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of June 18, was 57,114 for a total sockeye escapement of 194,616 salmon. The first run interim escapement goal of 200,000 sockeye salmon by June 20 should be achieved today.

In the Chignik Management Area approximately 440,690 sockeye salmon have been harvested through June 18. The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will remain open to commercial salmon fishing until 7:00 p.m. Thursday, June 20.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 94,200 (80% Chignik bound harvest figure) sockeye salmon through June 15. The Cape Igvak Section will reopen to commercial salmon fishing from 12:01 a.m. Thursday June 20, until 12:01 a.m. Saturday June 22, 1996.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye salmon will exceed 600,000 . At this time the department believes that the early run is as strong as predicted based on catch and escapement to date.

In the Southeastern District Mainland area the estimated total sockeye harvest through June 18 is 52,277 salmon. The 80% Chignik harvest figure is 41,820 sockeye for approximately 7% of the total Chignik sockeye salmon harvest to date. A 24 hour extension of the current fishing period in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

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EMERGENCY ORDER N0. 4-FS-M-CB-10-96
EFFECTIVE DATE: 3:00 p.m., June 20, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Friday, June 21 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye catch date is approximately 252,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 91,300 salmon. Reports from the grounds indicate that the sockeye to chum ratio is high but the volume remains low. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-09-96
EFFECTIVE DATE: 3:00 p.m., June 20, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m.Thursday, June 20 until 3:00 p.m. Friday, June 21 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 19 in the Shumagin Islands Section is 119,578 salmon, composed of 161 chinook, 59,244 sockeye, 28,583 pink, and 31,590 chum salmon. The sockeye to chum salmon ratio for June 19 was 1.88 to 1.0. About 478,440 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-10-96
EFFECTIVE DATE: 5:00 p.m., June 20, 1996

EXPLANATION: This emergency order allows an 18 hour extension of the current commercial salmon fishing period from 5:00 p.m., Thursday, June 20, 1996 until 11:00 a.m. Friday, June 21, 1996 in the Southeastern District Mainland area: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.

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JUSTIFICATION: The Southeastern District Mainland fishery is managed on the basis of Chignik sockeye salmon through July 25 as described under 5 AAC 09.360.

The sockeye salmon daily escapement at Chignik, as of June 19, was 6,297 for a total sockeye escapement of 200,913 salmon. The first run interim escapement goal of 200,000 sockeye salmon by June 20 has been surpassed. The next interim escapement goal is 250,000 by June 22.

In the Chignik Management Area approximately 514,047 sockeye salmon have been harvested through June 19. The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will close to commercial salmon fishing at 7:00 p.m. Thursday, June 20.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 94,200 (80% Chignik bound harvest figure) sockeye salmon through June 15. The Cape Igvak Section reopened to commercial salmon fishing from 12:01 a.m. Thursday June 20, until 12:01 a.m. Saturday June 22, 1996.

Based on the preseason forecast a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye salmon will exceed 600,000 . At this time the department believes that the early run is as strong as predicted based on catch and escapement to date.

In the Southeastern District Mainland area the estimated total sockeye harvest through June 18 is 75,281 salmon. The 80% Chignik harvest figure is 60,223 sockeye for approximately 9% of the total Chignik sockeye salmon harvest to date. An 18 hour extension of the current fishing period in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

EMERGENCY ORDER N0. 4-FS-M-CB-11-96
EFFECTIVE DATE: 3:00 p.m., June 21, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Saturday, June 22 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye catch date is approximately 313,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 128,000 salmon. Reports from the grounds indicate that the sockeye to chum ratio is acceptable and the volume of the sockeye and chum salmon landed remains low. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-11-96
EFFECTIVE DATE: 3:00 p.m., June 21, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Friday, June 21 until 3:00 p.m. Saturday, June 22 in the Shumagin Islands Section.

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JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 20 in the Shumagin Islands Section is 94,846 salmon, composed of 171 chinook, 46,985 sockeye, 25,848 pink, and 21,842 chum salmon. The sockeye to chum salmon ratio for June 20 was 2.15 to 1.0. About 431,455 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER N0. 4-FS-M-CB-12-96
EFFECTIVE DATE: 3:00 p.m., June 22, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Sunday, June 23 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 382,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 176,000 salmon. The sockeye per chum ratio on June 21 was approximately 4.3 to 1, and fishing effort is expected to fall off dramatically due to high winds forecasted for June 22. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-12-96
EFFECTIVE DATE: 3:00 p.m., June 22, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Saturday, June 22 until 3:00 p.m. Sunday, June 23 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

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The preliminary harvest figure for June 21 in the Shumagin Islands Section is 127,620 salmon, composed of 284 chinook, 63,299 sockeye, 1 coho, 32,641 pink, and 31,395 chum salmon. The sockeye to chum salmon ratio for June 21 was 2.02 to 1.0. About 368,156 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER N0. 4-FS-M-CB-13-96
EFFECTIVE DATE: 3:00 p.m., June 23, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Monday, June 24 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 445,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 232,000 salmon. The sockeye per chum ratio on June 22 was approximately 3.9 to 1, and no fishing is expected to occur on June 23 due to storm force winds. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-13-96
EFFECTIVE DATE: 3:00 p.m., June 23, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Sunday, June 23 until 3:00 p.m. Monday, June 24 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 22 in the Shumagin Islands Section is 141,398 salmon, composed of 195 chinook, 64,707 sockeye, 5 coho, 35,831 pink, and 40,660 chum salmon. The sockeye to chum salmon ratio for June 22 was 1.59 to 1.0. About 303,449 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department. The department anticipates fishing effort in the Shumagin Islands will be significantly reduced due to a forecast for gale force winds.

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Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

EMERGENCY ORDER N0. 4-FS-M-CB-14-96
EFFECTIVE DATE: 3:00 p.m., June 24, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Tuesday, June 25 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 448,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 256,000 salmon. The sockeye per chum ratio on June 23 was approximately 4.4 to 1, and limited fishing is expected to occur on June 24 due to gale force winds. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-14-96
EFFECTIVE DATE: 3:00 p.m., June 24, 1996

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Monday, June 24 until 3:00 p.m.Tuesday, June 25 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level(GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 23 in the Shumagin Islands Section is 63,797 salmon, composed of 50 chinook, 28,814 sockeye, 6 coho, 12,143 pink, and 22,784 chum salmon. The sockeye to chum salmon ratio for June 23 was 1.26 to 1.0. About 234,765 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most reported declining sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 24 hour extension of the current commercial fishing period will allow fishermen to continue to provide information and catch sockeye while minimizing chum salmon harvest. If favorable ratios continue the fishery could be extended.

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EMERGENCY ORDER N0. 4-FS-M-CB-15-96
EFFECTIVE DATE: 3:00 p.m., June 25, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Wednesday, June 26 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 469,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 272,000 salmon. The sockeye per chum ratio on June 24 was approximately 11.3 to 1, and limited fishing is expected to occur on June 25 due to gale force winds. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-15-96
EFFECTIVE DATE: 3:00 p.m., June 25, 1996

EXPLANATION: This emergency order allows a 9 hour extension of the current commercial salmon purse seine fishing period from 3:00 p.m. Tuesday, June 25 until 11:59 p.m. Tuesday, June 25 in the Shumagin Islands Section. This emergency order also extends the current commercial salmon set gillnet fishing period until further notice in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 24 in the Shumagin Islands Section is 57,939 salmon, composed of 160 chinook, 30,802 sockeye, 13 coho, 12,108 pink, and 14,856 chum salmon. The sockeye to chum salmon ratio for June 24 was 2.07 to 1.0. About 265,567 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported declining sockeye to chum salmon ratios The department anticipates fishing effort in the Shumagin Islands will be significantly reduced due to the presence of gale force winds.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 9 hour extension of the current commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

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Under 5 AAC 09.365(h), there is no stipulation to reduce commercial salmon set gillnet fishing periods due to unfavorable sockeye to chum salmon ratios. Historically, set gillnet gear has produced significantly higher sockeye to chum salmon ratios than purse seine gear in the Shumagin Islands Section. However, after June 24 the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-16-96
EFFECTIVE DATE: 6:00 a.m., June 26, 1996

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Wednesday, June 26 until noon Wednesday, June 26, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 24 in the Shumagin Islands Section is 57,939 salmon, composed of 160 chinook, 30,802 sockeye, 13 coho, 12,108 pink, and 14,856 chum salmon. The sockeye to chum salmon ratio for June 24 was 2.07 to 1.0. About 265,567 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported declining sockeye to chum salmon ratios The department anticipates fishing effort in the Shumagin Islands will be significantly reduced due to the presence of gale force winds.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 6 hour commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-17-96
EFFECTIVE DATE: 12:00 noon, June 26, 1996

EXPLANATION: This emergency order allows a 12 hour extension of the current commercial salmon purse seine fishing period from 12:00 noon Wednesday, June 26 until 11:59 p.m. Wednesday, June 26, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin

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Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 25 in the Shumagin Islands Section is 30,741 salmon, composed of 80 chinook, 16,387 sockeye, 31 coho, 7,127 pink, and 7,116 chum salmon. The sockeye to chum salmon ratio for June 25 was 2.3 to 1.0. About 227,446 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported favorable sockeye to chum salmon ratios. The fishing effort and harvest were significantly reduced because of gale force winds in the Shumagin Islands. Fishermen avoid areas producing poor sockeye to chum salmon ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 12 hour extension of the current commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER N0. 4-FS-M-CB-16-96
EFFECTIVE DATE: 3:00 p.m., June 26, 1996

EXPLANATION: This emergency order extends commercial fishing time an additional 24 hours until 3:00 p.m. Thursday, June 27 in the South Unimak Fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 481,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 282,000 salmon. The sockeye per chum ratio on June 25 was approximately 5 to 1 . Limited fishing is expected to occur on June 26 due to sea conditions. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

EMERGENCY ORDER NO. 4-FS-M-SP-18-96
EFFECTIVE DATE: 6:00 a.m., June 27, 1996

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Thursday, June 27 until noon Thursday, June 27, 1996 in the Shumagin Islands Section.

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JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 25 in the Shumagin Islands Section is 30,741 salmon, composed of 80 chinook, 16,387 sockeye, 31 coho, 7,127 pink, and 7,116 chum salmon. The sockeye to chum salmon ratio for June 25 was 2.3 to 1.0. About 227,446 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported favorable sockeye to chum salmon ratios The fishing effort and harvest in the Shumagin Islands was significantly reduced due to the presence of gale force winds. Fishermen avoid areas producing poor sockeye to chum salmon ratios (less than 1.0:1.0) and continue to report catch ratios to the department.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 6 hour commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-19-96
EFFECTIVE DATE: 12:00 noon, June 27, 1996

EXPLANATION: This emergency order allows a 12 hour extension of the current commercial salmon purse seine fishing period from 12:00 noon Thursday, June 27 until 11:59 p.m. Thursday, June 27, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 26 in the Shumagin Islands Section is 47,224 salmon, composed of 154 chinook, 25,378 sockeye, 63 coho, 11,428 pink, and 10,201 chum salmon. The sockeye to chum salmon ratio for June 26 was 2.49 to 1.0. About 202,068 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum salmon ratios (less than 1.0:1.0).

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 12 hour extension of the current commercial fishing

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period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER N0. 4-FS-M-CB-18-96
EFFECTIVE DATE: 3:00 p.m., June 27, 1996

EXPLANATION: This emergency order extends commercial fishing time nine (9) hours for seine and drift gillnet gear until midnight June 27 and establishes a 6:00 a.m. until noon fishing period during June 28 for seine and drift gillnet gear, in the South Unimak fishery. The fishing period in the South Unimak fishery for set gillnet gear is extended 81 hours until 12:00 midnight June 30.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 495,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 297,400 salmon. The sockeye per chum ratio on June 26 was approximately 2.6 to 1 . Limited fishing is expected to occur on June 27 due to sea conditions. More fishing time is needed to for fishermen to harvest their guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

5AAC 09.365 (h) of the South Unimak and Shumagin Islands June Salmon Management Plan states that if the sockeye to chum ratio is less than 2 to 1 after June 24 the next fishing period will be of only six hours duration for seine and drift gillnet gear. If the ratio of sockeye to chum salmon is less than 2 to 1 for an aggregate of three days after June 24, that fishery will be closed to all gear types.

Set gillnet gear, which produces higher sockeye to chum ratios than the other gear types is not restricted to the six hour fishing periods.

The sockeye to chum ratio at South Unimak during June 26 was 2.6 to 1, down from 5.0 to 1 on June 25, and 11.3 to 1 on June 24. With this trend, there is a good possibility that the June 27 ratio will be less than 2 to 1 which would therefore require the fishing period on June 28 to be of six hours duration for seine and drift gillnet gear.

EMERGENCY ORDER NO. 4-FS-M-SP-20-96
EFFECTIVE DATE: 6:00 a.m., June 28, 1996

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Friday, June 28 until noon Friday, June 28, 1996 in the Shumagin Islands Section.

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JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 26 in the Shumagin Islands Section is 47,224 salmon, composed of 154 chinook, 25,378 sockeye, 63 coho, 11,428 pink, and 10,201 chum salmon. The sockeye to chum salmon ratio for June 26 was 2.49 to 1.0. About 202,068 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and most purse seiners reported favorable sockeye to chum salmon ratios. Fishermen avoid areas producing poor sockeye to chum salmon ratios (less than 1.0:1.0).

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 6 hour commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-21-96
EFFECTIVE DATE: 12:00 noon, June 28, 1996

EXPLANATION: This emergency order allows a 12 hour extension of the current commercial salmon purse seine fishing period from 12:00 noon Friday, June 28 until 11:59 p.m. Friday, June 28, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 27 in the Shumagin Islands Section is 40,741 salmon, composed of 112 chinook, 21,607 sockeye, 87 coho, 10,648 pink, and 8,287 chum salmon. The sockeye to chum salmon ratio for June 27 was 2.61 to 1.0. About 180,461 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and purse seine effort is expected to be reduced.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 12 hour extension of the current commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

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However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER N0. 4-FS-M-CB-19-96
EFFECTIVE DATE: 12:00 noon, July 28, 1996

EXPLANATION: This emergency order extends commercial fishing time 24 hours for seine and drift gillnet gear until noon Saturday, June 29 in the South Unimak fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 524,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 314,000 salmon. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

5AAC 09.365 (h) of the South Unimak and Shumagin Islands June Salmon Management Plan states that if the sockeye to chum ratio is less than 2 to 1 after June 24 the next fishing period will be of only six hours duration for seine and drift gillnet gear. If the ratio of sockeye to chum salmon is less than 2 to 1 for an aggregate of three days after June 24, that fishery will be closed to all gear types.

Set gillnet gear, which produces higher sockeye to chum ratios than the other gear types is not restricted to the six hour fishing periods. Set net gear accounts for a minor portion of the total catch.

The sockeye per chum ratio on June 27 was approximately 3.6 to 1 which is improved from the June 26 harvest ratio of 2.6 to 1. The fleet is making an effort to stay away from areas where chums are abundant and it appears unlikely that the June 28 ratio will drop below two sockeye per chum salmon.

EMERGENCY ORDER NO. 4-FS-M-SP-22-96
EFFECTIVE DATE: 6:00 a.m., June 29, 1996

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Saturday, June 29 until 12:00 noon Saturday, June 29, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

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The preliminary harvest figure for June 27 in the Shumagin Islands Section is 40,741 salmon, composed of 112 chinook, 21,607 sockeye, 87 coho, 10,648 pink, and 8,287 chum salmon. The sockeye to chum salmon ratio for June 27 was 2.61 to 1.0. About 180,461 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and purse seine effort is expected to be reduced.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 6 hour commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-23-96
EFFECTIVE DATE: 12:00 noon, June 29, 1996

EXPLANATION: This emergency order allows a 12 hour extension of the current commercial salmon purse seine fishing period from 12:00 noon Saturday, June 29 until 11:59 p.m. Saturday, June 29, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 28 in the Shumagin Islands Section is 48,644 salmon, composed of 85 chinook, 24,270 sockeye, 279 coho, 15,318 pink, and 8,692 chum salmon. The sockeye to chum salmon ratio for June 28 was 2.79 to 1.0. About 156,191 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and purse seine effort has declined.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 12 hour extension of the current commercial fishing period for purse seine gear will allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

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EMERGENCY ORDER N0. 4-FS-M-CB-20-96
EFFECTIVE DATE: 12:00 noon., June 29, 1996

EXPLANATION: This emergency order extends commercial fishing time 24 hours for seine and drift gillnet gear until noon Sunday, June 30 in the South Unimak fishery.

JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 539,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 326,000 salmon. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

5AAC 09.365 (h) of the South Unimak and Shumagin Islands June Salmon Management Plan states that if the sockeye to chum ratio is less than 2 to 1 after June 24 the next fishing period will be of only six hours duration for seine and drift gillnet gear. If the ratio of sockeye to chum salmon is less than 2 to 1 for an aggregate of three days after June 24, that fishery will be closed to all gear types.

Set gillnet gear, which produces higher sockeye to chum ratios than the other gear types is not restricted to the six hour fishing periods. Set net gear accounts for a minor portion of the total catch.

The sockeye per chum harvest ratio on June 28 was approximately 4.2 to 1 which is improved from the June 26 harvest ratio of 2.6 to 1 and the June 27 harvest ratio of 3.6 to 1. The fleet is making an effort to stay away from areas where chums are abundant and it appears unlikely that the June 29 ratio will drop below two sockeye per chum salmon.

EMERGENCY ORDER NO. 4-FS-M-SP-24-96
EFFECTIVE DATE: 6:00 a.m., June 30, 1996

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Sunday, June 30 until 12:00 noon Sunday, June 30, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 28 in the Shumagin Islands Section is 48,644 salmon, composed of 85 chinook, 24,270 sockeye, 279 coho, 15,318 pink, and 8,692 chum salmon. The sockeye to chum salmon ratio for June 28 was 2.79 to 1.0. About 156,191 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report a low volume of salmon, and purse seine effort has declined.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and chum salmon abundance tends to increase toward the end of June. The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 6 hour commercial fishing period for purse seine gear will

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allow fishermen to provide information and catch sockeye while minimizing chum salmon harvest. The department will also have time to analyze catch reports to determine current sockeye to chum salmon ratios for establishing additional fishing periods.

However, under 5 AAC 09.365(h), after June 24, in either the South Unimak or Shumagin Islands fishery, if the ratio of sockeye salmon to chum salmon is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the ratio of sockeye salmon to chum salmon is two to one or less for any three aggregate days.

EMERGENCY ORDER NO. 4-FS-M-SP-25-96
EFFECTIVE DATE: 12:00 noon, June 30, 1996

EXPLANATION: This emergency order allows a 12 hour extension of the current commercial salmon purse seine and set gillnet fishing period from 12:00 noon Sunday, June 30 until 12:00 midnight Sunday, June 30, 1996 in the Shumagin Islands Section.

JUSTIFICATION: The Shumagin Islands Section is managed on the basis of 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30 as described under 5 AAC 09.365. The South Unimak and Shumagin Islands fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries. The Shumagin Islands fishery guideline harvest level (GHL) is 566,000 sockeye salmon under a management plan adopted by the Alaska Board of Fisheries.

The preliminary harvest figure for June 29 in the Shumagin Islands Section is 34,607 salmon, composed of 54 chinook, 17,408 sockeye, 466 coho, 11,197 pink, and 5,482 chum salmon. Under 5 AAC 09.365(h) of the South Unimak and Shumagin Islands June Salmon Management Plan after June 24, in either the South Unimak or Shumagin Islands fishery, if the sockeye to chum salmon ratio is two to one or less on any day, the next daily fishing period for seine and drift gillnet gear shall be of six hour duration. After June 24, the South Unimak or Shumagin Islands fishery shall close for all gear types if the sockeye to chum salmon ratio is two to one or less for any three aggregate days.

The sockeye to chum salmon ratio for June 29 was 3.18 to 1.0. About 138,783 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The total South Unimak and Shumagin Islands chum harvest is 363,182 salmon. Fishermen continue to report a low volume of salmon, and purse seine effort has declined.

The department believes fishing time is needed to harvest sockeye salmon toward the GHL. A 12 hour extension of the current commercial fishing period for purse seine and set gillnet gear will allow fishermen to harvest sockeye without exceeding the sockeye salmon allocation or the chum salmon cap.

EMERGENCY ORDER N0. 4-FS-M-CB-21-96
EFFECTIVE DATE: 12:00 noon., June 30, 1996

EXPLANATION: This emergency order extends commercial fishing time 12 hours for seine and drift gillnet gear until midnight Sunday, June 30 in the South Unimak fishery.

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JUSTIFICATION: The South Unimak fishery guideline harvest level is 2,564,000 sockeye salmon as specified by the Alaska Board of Fisheries approved management plan. The South Unimak and Shumagin Islands June fisheries are restricted by a 700,000 chum salmon harvest ceiling as established by the Alaska Board of Fisheries.

The South Unimak sockeye harvest is approximately 557,000 salmon and the total South Unimak - Shumagin chum salmon harvest is approximately 337,000 salmon. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level and there appears to be no danger of reaching the chum salmon harvest cap at this time.

5AAC 09.365 (h) of the South Unimak and Shumagin Islands June Salmon Management Plan states that if the sockeye to chum ratio is less than 2 to 1 after June 24 the next fishing period will be of only six hours duration for seine and drift gillnet gear. If the ratio of sockeye to chum salmon is less than 2 to 1 for an aggregate of three days after June 24, that fishery will be closed to all gear types.

Set gillnet gear, which produces higher sockeye to chum ratios than the other gear types is not restricted to the six hour fishing periods. Set net gear accounts for a minor portion of the total catch.

The sockeye per chum harvest ratio on June 28 was approximately 4.2 to 1 which is improved from the June 26 harvest ratio of 2.6 to 1 and the June 27 harvest ratio of 3.6 to 1. The fleet is making an effort to stay away from areas where chums are abundant and it appears unlikely that the June 29 ratio will drop below two sockeye per chum salmon.

The sockeye to chum ratio was approximately 3.2 to 1 during June 29. Therefore the fishery should be extended to include all of June 30, the last day that the South Unimak Fishery can be open.

EMERGENCY ORDER NO. 4-FS-M-SP-26-96
EFFECTIVE DATE: 10:00 a.m., July 3, 1996

EXPLANATION: This emergency order allows a 56 hour commercial salmon set gillnet fishing period from 10:00 a.m. Wednesday, July 3 until 6:00 p.m. Friday, July 5, 1996 in the Northwest Stepovak Section of the Southeastern District.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet may be used in these sections. For the purpose of this plan, local runs include only those salmon in the waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye daily escapement at Orzinski Lake as of midnight July 1, was 2,985 salmon for a total sockeye escapement of 5,351 salmon, composed of 5,101 adult and 250 jack salmon. The interim escapement goal of 5,000 adult sockeye salmon by July 9 has been surpassed.

A 56 hour commercial salmon set gillnet fishing period from 10:00 a.m. Wednesday, July 3, until 6:00 p.m. Friday, July 5 in the Northwest Stepovak Section is warranted. This fishing period will allow fishermen to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

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EMERGENCY ORDER NO. 4-FS-M-SP-27-96
EFFECTIVE DATE: 6:00 a.m., July 4, 1996

EXPLANATION: This emergency order reduces the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery : East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet may be used in these sections. For the purpose of this plan, local runs include only those salmon in the waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye daily escapement at Orzinski Lake as of midnight July 2, was 1,020 salmon for a total sockeye escapement of 6,371 salmon, composed of 6,063 adult and 308 jack salmon. The interim escapement goal of 5,000 adult sockeye salmon by July 9 has been surpassed.

Reducing the normal closed waters to include only those waters upstream from the terminus at the ocean shoreline of any salmon stream in Orzinski Bay is warranted. This closed waters adjustment will allow fishermen to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-SP-28-96
EFFECTIVE DATE: 6:00 p.m., July 5, 1996

EXPLANATION: This emergency order allows a 51 hour extension of the current commercial salmon set gillnet fishing period from 6:00 p.m. Friday, July 5 until 9:00 p.m. Sunday, July 7, 1996 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also extends the reduced closed waters adjustment for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet may be used in these sections. For the purpose of this plan, local runs include only those salmon in the waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye daily escapement at Orzinski Lake on July 3 was 3,249 salmon for a total sockeye escapement of 9,620 salmon, composed of 9,134 adult and 486 jack salmon. An additional 1,000 sockeye were counted through the weir as of 8:00 a.m. July 4. The interim escapement goal of 10,000 adult sockeye salmon by July 16 has been surpassed.

A 51 hour extension of the current commercial salmon set gillnet fishing period from 6:00 p.m. Friday, July 5, until 9:00 p.m. Sunday, July 7 in the Northwest Stepovak Section is warranted. This fishing period will allow fishermen to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

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EMERGENCY ORDER N0. 4-FS-M-CB-22-96
EFFECTIVE DATE: 7:00 a.m., July 6, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 6 until 9:00 p.m. July 7 commercial salmon fishing period in the following locations:

1. Morzhovoi Bay Section
2. Thin Point Section
3. Cold Bay Section
4. Canoe Bay Section
5. That portion of the Pavlof Bay Section located north of the latitude of Black Point.
6. Zachary Bay located south of 55 degrees 22.7 minutes North latitude.

The closed waters of Thin Point Cove are reduced to include only those waters within 1,000 yards of the Thin Point Lagoon terminus and those waters within 500 yards of all other salmon streams emptying into Thin Point Cove, effective 7:00 a.m. July 6 through July 12.

JUSTIFICATION: South Peninsula sockeye and chum salmon should be entering locations where the Post June salmon Management Plan for the Southern Alaska Peninsula allows fishing outside of the Southeastern District Mainland. A short opening at this time will allow the fleet to harvest salmon and test run strength. A strong sockeye run is anticipated into Thin Point lake and fishing area is needed to test the run.

EMERGENCY ORDER NO. 4-FS-M-SP-29-96
EFFECTIVE DATE: 9:00 p.m., July 7, 1996

EXPLANATION: This emergency order allows an 18 hour extension of the current commercial salmon set gillnet fishing period from 9:00 p.m. Sunday, July 7 until 3:00 p.m. Monday, July 8, 1996 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also extends the reduced closed waters adjustment for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet may be used in these sections. For the purpose of this plan, local runs include only those salmon in the waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye daily escapement at Orzinski Lake on July 6 was 425 salmon for a total sockeye escapement of 13,492 salmon, composed of 12,493 adult and 999 jack salmon. The interim escapement goal of 10,000 adult sockeye salmon by July 16 has been surpassed.

An 18 hour extension of the current commercial salmon set gillnet fishing period from 9:00 p.m. Sunday, July 7, until 3:00 p.m. Monday, July 8 in the Northwest Stepovak Section is warranted. This fishing period will allow fishermen to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

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EMERGENCY ORDER NO. 4-FS-M-SP-30-96
EFFECTIVE DATE: 9:00 a.m., July 9, 1996

EXPLANATION: This emergency order allows a 27 hour commercial salmon set gillnet fishing period from 9:00 a.m., Tuesday, July 9, 1996 until 12:00 noon, Wednesday, July 10, 1996 in the East Stepovak, Stepovak Flats, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections of the Southeastern District.

This emergency order also allows a 45 hour extension of the current commercial salmon set gillnet fishing period from 3:00 p.m. Monday, July 8, 1996 until 12:00 noon Wednesday, July 10, 1996 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also extends the reduced closed waters adjustment for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye salmon daily escapement at Chignik, on July 7, was 3,384 salmon for a total sockeye escapement of 435,717 salmon. The first run of Chignik River system sockeye salmon was as strong as predicted, based on catch and escapement to date. The Chignik River second run interim escapement goal of 40,000 sockeye by July 10 has been achieved.

In the Chignik Management Area approximately 1,382,476 sockeye salmon have been harvested through July 6. The Chignik Bay, and Central Districts of the Chignik Management Area will remain open to commercial salmon fishing until 10:00 p.m. Tuesday, July 9.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 278,605 (80% Chignik bound harvest figure) sockeye salmon through July 7.

In the Southeastern District Mainland area the estimated 80% Chignik harvest figure is 88,536 salmon for approximately 5% of the total Chignik sockeye harvest to date. A 27 hour fishing period from 9:00 a.m. Tuesday, July 9 until 12:00 noon Wednesday, July 10 in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

EMERGENCY ORDER N0. 4-FS-M-CB-27-96
EFFECTIVE DATE: 7:00 a.m., July 11, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 11 until 9:00 p.m. July 12 commercial salmon fishing period in the following locations:

1. Morzhovoi Bay Section
2. Thin Point Section

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4. Canoe Bay Section
5. That portion of the Pavlof Bay Section located north of the latitude of Black Point.
6. Zachary Bay located south of 55 degrees 22.7 minutes North latitude.

JUSTIFICATION: South Peninsula sockeye and chum salmon should be entering locations where the Post June salmon Management Plan for the Southern Alaska Peninsula allows fishing outside of the Southeastern District Mainland. A short opening at this time will allow the fleet to harvest salmon and test run strength.

EMERGENCY ORDER NO. 4-FS-M-SP-31-96
EFFECTIVE DATE: 7:00 a.m., July 12, 1996

EXPLANATION: This emergency order allows commercial salmon purse seine and set gillnet fishing from 7:00 a.m., Friday, July 12, 1996 until further notice in the Northwest Stepovak Section of the Southeastern District.

This emergency order also reduces the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye salmon daily escapement at Orzinski weir, on July 9, was 617 fish for a total sockeye escapement of 14,570 salmon, composed of 13,317 adult and 1,253 jack salmon. The interim escapement goal of 10,000 adult sockeye by July 10 has been surpassed.

To allow commercial salmon purse seine and set gillnet fishing from 7:00 a.m. Friday July 12 until further notice in the Northwest Stepovak Section is warranted. This fishing period will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER N0. 4-FS-M-CB-31-96
EFFECTIVE DATE: 7:00 a.m., July 16, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 16 until 9:00 p.m. July 17 commercial salmon fishing period in the following locations:

1. Morzhovoi Bay Section
2. Thin Point Section
3. Cold Bay Section
4. Canoe Bay Section
5. That portion of the Pavlof Bay Section located north of the latitude of Black Point.
6. Zachary Bay located south of 55 degrees 22.7 minutes North latitude.

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JUSTIFICATION: South Peninsula sockeye and chum salmon are entering locations where the Post June salmon Management Plan for the Southern Alaska Peninsula allows fishing outside of the Southeastern District Mainland. A short opening at this time will allow the fleet to harvest salmon and test run strength.

EMERGENCY ORDER NO. 4-FS-M-SP-32-96
EFFECTIVE DATE: 7:00 a.m., July 17, 1996

EXPLANATION: This emergency order allows a 27 hour commercial salmon purse seine and set gillnet fishing period from 7:00 a.m. Wednesday, July 17, 1996 until 10:00 a.m. Thursday, July 18, 1996 in the East Stepovak, Stepovak Flats, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections of the Southeastern District.

This emergency order also extends the current commercial salmon purse seine and set gillnet fishing period until 10:00 a.m. Thursday, July 18, 1996 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also extends the reduced closed waters adjustment for any salmon stream in Orzinski Bay to include only those waters upstream from the terminus at the ocean shoreline.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye almon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye salmon daily escapement at Chignik, on July 15, was 1,492 salmon for a total sockeye escapement of 486,056 salmon. The first run of Chignik River system sockeye salmon was as strong as predicted, based on catch and escapement to date. The Chignik River second run interim escapement goal of 75,000 sockeye by July 14 has been achieved. In the Chignik Management Area approximately 1,577,515 sockeye salmon have been harvested through July 15.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 304,520 (80% Chignik bound harvest figure) sockeye salmon through July 15.

In the Southeastern District Mainland area the estimated 80% Chignik harvest figure is 106,644 salmon for approximately 5% of the total Chignik sockeye harvest to date. A 27 hour fishing period from 7:00 a.m. Wednesday, July 17 until 10:00 a.m. Thursday, July 18 in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

EMERGENCY ORDER N0. 4-FS-M-CB-34-96
EFFECTIVE DATE: 7:00 a.m., July 20, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 20 until 9:00 p.m. July 22 commercial salmon fishing period in the Shumagin Islands Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section, and Bechevin Bay Section.

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JUSTIFICATION: The projected South Peninsula pink salmon harvest is 7,000,000 fish. A strong chum run is also anticipated. Strong pink and chum salmon returns are also anticipated in the Bechevin Bay Section where the early chum escapement into Saint Catherine Cove is coming in at a record level. Fishing time is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-SP-33-96
EFFECTIVE DATE: 7:00 a.m, July 21, 1996

EXPLANATION: This emergency order allows commercial salmon purse seine and set gillnet fishing from 7:00 a.m. Sunday, July 21, 1996 until further notice in the Northwest Stepovak Section of the Southeastern District.

This emergency order also reduces the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay to include only those waters within 500 yards of any salmon stream.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye salmon daily escapement at Orzinski weir, on July 18, was 720 fish for a total sockeye escapement of 19,170 salmon, composed of 16,580 adult and 2,590 jack salmon. The interim escapement goal of 10,000 adult sockeye by July 10 has been surpassed.

To allow commercial salmon purse seine and set gillnet fishing from 7:00 a.m. Sunday, July 21 until further notice in the Northwest Stepovak Section is warranted. This fishing period will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER N0. 4-FS-M-CB-36-96
EFFECTIVE DATE: 9:00 p.m. July 22, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 96 hours until 9:00 p.m. July 26 in the East Pavlof Bay and Canoe Bay Sections.

JUSTIFICATION: The pink salmon escapement into Middle and Settlement Point creeks are 21,000 and 99,000 fish respectively. The chum salmon escapement into Canoe Bay River is 16,000 with another 20,000 fish at the river mouth. These are excellent escapements for this date and more fishing time is justified to harvest the resource.

EMERGENCY ORDER N0. 4-FS-M-CB-37-96
EFFECTIVE DATE: July 24, 1996

EXPLANATION: This emergency order closes the commercial salmon fishing season the Swanson Lagoon Section after July 23.

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JUSTIFICATION: The escapement of chum salmon into Silver Salmon creek is only 700 fish. Catches of sockeye salmon have been low, indicating that the sockeye run is not strong at this time. The season should be closed at this time to get more chum and sockeye salmon into closed waters.

EMERGENCY ORDER N0. 4-FS-M-CB-38-96
EFFECTIVE DATE: 7:00 a.m. July 24, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 24 until 9:00 p.m. July 26 fishing period in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section, and Bechevin Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams. Effort was light during the last fishing period in the western portion of the South Peninsula, likely due to low prices. There is concern for fish quality with build-ups of fish and light effort. Fishing time is needed to harvest the resource while the quality is at it's best.

EMERGENCY ORDER NO. 4-FS-M-SP-34-96
EFFECTIVE DATE: 9:00 a.m., July 24, 1996

EXPLANATION: This emergency order allows an 8 hour commercial salmon fishing period from 9:00 a.m. Wednesday, July 24, 1996 until 5:00 p.m. Wednesday, July 24, 1996 in the East Stepovak, Stepovak Flats, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections of the Southeastern District.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

The sockeye salmon daily escapement at Chignik, on July 22, was 2,189 salmon for a total sockeye escapement of 540,688 salmon. The first run of Chignik River system sockeye salmon was as strong as predicted, based on catch and escapement to date. The Chignik River second run interim escapement goal of 125,000-135,000 sockeye by July 21 has been achieved.

In the Chignik Management Area approximately 1,663,633 sockeye salmon have been harvested through July 21, 1996. The Chignik Bay District of the Chignik Management Area will remain open to commercial salmon fishing until 6:00 p.m. Sunday, July 21. The Perryville and Central Districts of the Chignik Management Area will remain open to commercial salmon fishing until 12:01 a.m. Monday, July 22, 1996.

The Cape Igvak Section of the Kodiak Management Area has harvested an estimated 304,520 (80% Chignik bound harvest figure) sockeye salmon through July 21.

In the Southeastern District Mainland area the estimated 80% Chignik harvest figure is 123,387 salmon for approximately 6% of the total Chignik sockeye harvest to date. An 8 hour fishing period from 9:00 a.m. until 5:00 p.m. during Wednesday, July 24 in the Southeastern District Mainland area will give fishermen the opportunity to harvest sockeye salmon toward the 6% allocation as specified in 5 AAC 09.360.

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EMERGENCY ORDER N0. 4-FS-M-CB-39-96
EFFECTIVE DATE: July 25, 1996.

EXPLANATION: This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of Eastern Creek on Deer Island effective July 25 through August 31.

JUSTIFICATION: A total of 18,000 pink salmon are estimated to be in Eastern Creek. This is in the peak escapement goal range of this stream. More fishing area is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-SP-35-96
EFFECTIVE DATE: 7:00 a.m., July 25, 1996

EXPLANATION: This emergency order allows a 38 hour commercial salmon fishing period from 7:00 a.m. Thursday, July 25 until 9:00 p.m. Friday, July 26, 1996 in the Shumagin Islands Section.

JUSTIFICATION: A pink salmon harvest of 7.5 million fish is projected for the South Peninsula. Preliminary catch reports and escapements into early producing systems indicate that pink salmon abundance is increasing. Additional fishing time is needed to assess the pink salmon run strength and harvest pink salmon while maintaining product quality.

EMERGENCY ORDER NO. 4-FS-M-SP-36-96
EFFECTIVE DATE: 12:01 a.m., July 26, 1996

EXPLANATION: This emergency order allows a 21 hour commercial salmon fishing period from 12:01 a.m. Friday, July 26, 1996 until 9:00 p.m. Friday, July 26, 1996 in the East Stepovak, Stepovak Flats, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections of the Southeastern District Mainland area.

This emergency order also extends the current commercial salmon fishing period until 9:00 p.m. Friday, July 26, 1996 in the Northwest Stepovak Section of the Southeastern District Mainland area.

This emergency order also reduces the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay to include only those waters within 500 yards of any salmon stream in Orzinski Bay.

JUSTIFICATION: The Southeastern District Mainland fishery: East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections is managed on the basis of Chignik River sockeye salmon prior to July 26 as described under 5 AAC 09.360. Before July 11, only set gillnet gear may be used in these sections. For purposes of this plan, local runs include only those waters

(1) beginning July 1, in the Northwest Stepovak Section described in 5 AAC 09.200(f); and
(2) in the Stepovak Flats Section as described in 5 AAC 09.200(f).

A 7.5 million pink salmon harvest is projected for the South Peninsula. A 21 hour fishing period during July 26 in the Southeastern District Mainland area will provide fishermen the opportunity to assess the strength of local pink and chum salmon runs. This fishing period will place the Southeastern District Mainland area on the same fishing schedule as the balance of the South Peninsula. which is currently open and also scheduled to close at 9:00 p.m. Friday, July 26, 1996.

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From July 1 through July 25, the Northwest Stepovak Section is managed on the basis of the Orzinski Lake sockeye salmon stock, and after July 25 on local salmon runs. The management of the Northwest Stepovak Section is changing from an emphasis on local sockeye to pink salmon, and it is appropriate to start coordinating fishing periods with the balance of the Southeastern District Mainland area. The normal 1,000 yard closed waters for any salmon stream in Orzinski Bay will be reduced to 500 yards. Moving the regulatory markers to 500 yards will protect any milling pink salmon and still allow the harvest of local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER N0. 4-FS-M-CB-41-96
EFFECTIVE DATE: 9:00 p.m. July 26, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 72 hours until 9:00 p.m. July 29 in the East Pavlof Bay and Canoe Bay Sections.

JUSTIFICATION: The pink salmon escapement into Middle and Settlement Point creeks are over 21,000 and 99,000 fish respectively. The chum salmon escapement into Canoe Bay River is over 16,000 with another 20,000 fish at the river mouth. These are excellent escapements for this date and more fishing time is justified to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-SP-37-96
EFFECTIVE DATE: 7:00 a.m., July 28, 1996

EXPLANATION: This emergency order reinstates the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay from the current 500 yards closure.

JUSTIFICATION: From July 1 through July 25, the Northwest Stepovak Section is managed on the basis of the Orzinski Lake sockeye salmon stock, and after July 25 on local salmon runs. The management of the Northwest Stepovak Section is changing from an emphasis on local sockeye to pink salmon. Reinstating the normal 1,000 yard closed waters for any salmon stream in Orzinski Bay will protect any milling pink salmon.

EMERGENCY ORDER N0. 4-FS-M-CB-42-96
EFFECTIVE DATE: 7:00 a.m., July 28, 1996

EXPLANATION: This emergency order establishes a 7:00 a.m. July 28 until 9:00 p.m. July 29 fishing period in all four South Peninsula fishing districts and the Bechevin Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams. Effort was light during the last fishing period in the western portion of the South Peninsula, likely due to low prices. There is concern for fish quality with build-ups of fish and light effort. Harvest in the eastern portion of the area indicated the pink salmon run in strong. Fishing time is needed to harvest the resource while the quality is at it's best.

EMERGENCY ORDER N0. 4-FS-M-CB-44-96
EFFECTIVE DATE: 9:00 p.m., July 29 1996

EXPLANATION: This emergency order extends commercial extends commercial salmon fishing time 24 hours until 9:00 p.m. July 30 in all four South Peninsula fishing districts and the Bechevin Bay Section.

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JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams. Effort was very light in the eastern portion of the South peninsula during July 28 due to high onshore winds. Fishing effort in the western portion of the South Peninsula and Bechevin Bay Section was nominal due to low prices. A 24 hour extension will give fishermen more opportunity to harvest the resource while the quality is at it's best.

EMERGENCY ORDER N0. 4-FS-M-CB-45-96
EFFECTIVE DATE: 9:00 p.m., July 30, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 72 hours until 9:00 p.m. August 2, in the East Pavlof Bay and Canoe Bay Sections.

JUSTIFICATION: The pink salmon escapement into Middle and Settlement Point creeks are over 21,000 and 99,000 fish respectively. The chum salmon escapement into Canoe Bay River is over 16,000 with another 20,000 fish at the river mouth. These are excellent escapements for this date and more fishing time is justified to harvest the resource.

EMERGENCY ORDER N0. 4-FS-M-CB-46-96
EFFECTIVE DATE: 8:00 a.m., August 1, 1996

EXPLANATION: This emergency order establishes a 8:00 a.m. August 1 until 9:00 p.m. August 3 fishing period in the South Central, Southwestern, and Unimak Districts and the Bechevin Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams. Effort was very light during the last fishing period in the western portion of the South Peninsula, likely due to low prices. There is concern for fish quality with build-ups of fish and light effort. Fishing time is needed to harvest the resource while the quality is at it's best.

EMERGENCY ORDER N0. 4-FS-M-CB-49-96
EFFECTIVE DATE: August 2, 1996

EXPLANATION: This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of Middle, Settlement Point, and Mino Creeks effective August 2 through August 31.

JUSTIFICATION: A recent aerial survey indicated the pink salmon escapements of 135,800 in Middle Creek, 374,700 in Settlement Point Creek and over 170,000 in Mino Creek. These escapements are in or well above the goals for these streams. More fishing area is needed to harvest the resource. Middle Creek and Settlement Point creeks are the only salmon streams in the East Pavlof Bay Section.

EMERGENCY ORDER NO. 4-FS-M-SP-38-96
EFFECTIVE DATE: 8:00 a.m., August 2, 1996

EXPLANATION: This emergency order allows a 37 hour commercial salmon fishing period from 8:00 a.m. Friday, August 2 until 9:00 p.m. Saturday, August 3, 1996 in the Southeastern District.

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JUSTIFICATION: A pink salmon harvest of 7.5 million fish is projected for the South Peninsula. Pink salmon escapements into early producing systems in the Shumagin Islands are generally good. However, preliminary catch reports and escapements into early producing systems in the Southeastern District Mainland area are not as strong.

Additional fishing time is needed to assess the strength of the pink salmon run and harvest pink salmon while maintaining product quality. A 37 hour fishing period is warranted to provide fishermen the opportunity to harvest salmon and help determine if the pink salmon run is late while allowing time for more escapement.

EMERGENCY ORDER N0. 4-FS-M-CB-50-96
EFFECTIVE DATE: August 3, 1996

EXPLANATION: This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of all streams on the northwest side of Deer Island and McGinty's Creek effective August 3 through August 31.

JUSTIFICATION: Pink salmon escapement goals have been reached in McGinty's creek and the creeks on the northwest side of Deer Island. More fishing area is needed to harvest the resource.

EMERGENCY ORDER N0. 4-FS-M-CB-51-96
EFFECTIVE DATE: 9:00 p.m., August 3, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time four days until 9:00 p.m. August 7 in the South Central, Southwestern, and Unimak Districts and the Bechevin Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams. Effort is very light in the western portion of the South Peninsula, likely due to low prices. There is concern for fish quality with build-ups of fish and light effort. Fishing time is needed to harvest the resource while the quality is at it's best.

EMERGENCY ORDER N0. 4-FS-M-CB-52-96
EFFECTIVE DATE: August 6, 1996

EXPLANATION: This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of Deadman's Cove and Hungry's Creeks effective August 6 through August 31.

JUSTIFICATION: Pink salmon escapements into Deadman's Cove and Hungry's Creeks are 75,000 and 88,000 fish respectively. This is in Deadman's escapement goal range and well over the goal for Hungry's Creek. More fishing area is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-SP-39-96
EFFECTIVE DATE: 8:00 a.m., August 6, 1996

EXPLANATION: This emergency order allows a 37 hour commercial salmon fishing period from 8:00 a.m. Tuesday, August 6 until 9:00 p.m.Wednesday, August 7, 1996 in the East Stepovak and Shumagin Islands Sections of the Southeastern District.

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JUSTIFICATION: A pink salmon harvest of 7.5 million fish is projected for the South Peninsula. Pink salmon escapements into early producing systems in the Shumagin Islands are adequate for this date. Additional fishing time in the Shumagin Islands Section is warranted to provide fishermen the opportunity to harvest salmon that are excess to escapement requirements.

Preliminary catch reports and recent aerial surveys in the Southeastern District Mainland area indicate that salmon escapements are below average for this date. To insure salmon escapement, the Southeastern District Mainland area, outside of the East Stepovak Section, should remain closed to commercial salmon fishing until further notice.

The salmon streams in the East Stepovak Section are late producing systems. Additional fishing time is needed to assess the strength of the pink salmon run and harvest pink salmon while maintaining product quality. A 37 hour fishing period is warranted to provide fishermen the opportunity to harvest salmon, while allowing time for more escapement.

EMERGENCY ORDER N0. 4-FS-M-CB-53-96
EFFECTIVE DATE: 9:00 p.m., August 7, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time four days until 9:00 p.m. August 11 in the South Central,and Unimak Districts, in the Bechevin Bay Section and in all sections of the Southwestern District located outside of the Belkofski Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams even though the pink salmon run is not strong. This is due to low prices being paid to fishermen. Most of the fishing effort is taking place in the Belkofski Bay Section, where salmon are only beginning to enter the streams. The Belkofski Bay Section is close to the community of King Cove and is easily reached by fishermen not wanting to use more fuel to travel to more distant locations. Additional fishing time is needed in the Bechevin Bay Section and that portion of the South Peninsula west of McGinty Point, but outside of the Belkofski Bay Section, to harvest the resource. The Belkofski Bay Section should be closed for awhile to allow more pink salmon to escape to natal streams.

EMERGENCY ORDER N0. 4-FS-M-CB-55-96
EFFECTIVE DATE: 8:00 a.m. August 10, 1996

EXPLANATION: This emergency order establishes a 8:00 a.m. August 10 until 9:00 p.m. August 11 commercial salmon fishing period in the Belkofski Bay Section.

JUSTIFICATION: Escapements of pink salmon into Belkofski Bay Section are fair for this date and effort is low due to prices. The present 59 hour closure should increase escapement. Due to the often rapid decline in fish quality during mid August, a fishing period should be allowed before the quality is unacceptable.

EMERGENCY ORDER N0. 4-FS-M-CB-56-96
EFFECTIVE DATE: 9:00 p.m. August 11, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time four days until 9:00 p.m. August 15 in the South Central, and Unimak Districts, in the Bechevin Bay Section and in all sections of the Southwestern District located outside of the Belkofski Bay Section.

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JUSTIFICATION: Pink and chum salmon escapements are good to excellent in early streams even though the pink salmon run is not strong. This is due to low prices being paid to fishermen. Most of the fishing effort is taking place in the Belkofski Bay Section, where salmon are only beginning to enter the streams. The Belkofski Bay Section is close to the community of King Cove and is easily reached by fishermen not wanting to use more fuel to travel to more distant locations. Additional fishing time is needed in the Bechevin Bay Section and that portion of the South Peninsula west of McGinty Point, but outside of the Belkofski Bay Section, to harvest the resource. The Belkofski Bay Section should be closed for awhile to allow more pink salmon to escape to natal streams.

EMERGENCY ORDER N0. 4-FS-M-CB-58-96
EFFECTIVE DATE: 8:00 a.m., August 14, 1996

EXPLANATION: This emergency order establishes a 8:00 a.m. August 14 until 9:00 p.m. August 15 commercial salmon fishing period in the Belkofski Bay Section.

JUSTIFICATION: Escapements of pink salmon into Belkofski Bay Section are fair for this date and effort is low due to prices. The present 59 hour closure should increase escapement. Due to the often rapid decline in fish quality during mid August, a fishing period should be allowed before the quality is unacceptable.

EMERGENCY ORDER N0. 4-FS-M-CB-59-96
EFFECTIVE DATE: 9:00 p.m., August 15, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time two days until 9:00 p.m. August 17 in the South Central, Southwestern, and Unimak Districts, and in the Bechevin Bay Section.

JUSTIFICATION: Pink and chum salmon escapements are generally good to excellent in early streams and good for this date in late streams, even though the pink salmon run is not strong. This is due to low prices being paid to fishermen and consequently very light fishing effort. Additional fishing time is needed to harvest the resource.

EMERGENCY ORDER N0. 4-FS-M-CB-64-96
EFFECTIVE DATE: 9:00 a.m., September 1, 1996

EXPLANATION: This emergency order establishes a 9:00 a.m. September 1 until 8:00 p.m. September 4 commercial salmon fishing period in the Northwestern, Unimak, Southwestern, and South Central districts.

The closed waters of Thin Point Cove are reduced to include only those waters within 1,000 yards of the Thin Point Lagoon terminus and within 500 yards of the other salmon stream emptying into Thin Point Cove.

The closed waters of Swanson Lagoon are changed back to as listed in the current regulation book. This emergency order supersedes emergency order 4-FS-M-CB-43-96.

The commercial salmon fishing season in the Northwestern District is reopened during September 1 - 30.

JUSTIFICATION: Coho are now entering streams in the western portion of the South Peninsula and in the Northwestern District and fishing time is needed for fishermen to harvest some of them. The season also need to be reopened in the Northwestern District to allow coho harvest as the season closed August 10 in much of the district.

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The escapement of coho into Thin Point Lagoon is estimated to be 11,000 fish which is very high for this date. The weak Thin Point sockeye run will be nearly over by September 1. More fishing area is needed to harvest coho.

The closed waters of Swanson Lagoon were expanded to protect sockeye and chum salmon which were of low commercial quality and were needed for escapement. The bulk of the sockeye and chum salmon are now gone from waters outside the closure listed in the regulation book and fresh coho are now entering the system. More fishing area is needed to harvest coho salmon while the are still of high quality.

EMERGENCY ORDER NO. 4-FS-M-SP-40-96
EFFECTIVE DATE: 9:00 a.m., September 1, 1996

EXPLANATION: This emergency order allows a 59 hour commercial salmon fishing period from 9:00 a.m. Sunday, September 1, 1996 until 8:00 p.m. Tuesday, September 3, 1996 in the Southeastern District.

Closed waters are expanded to include all waters as follows:

A. Zachary Bay: all waters in Zachary Bay south of 55°21' N. lat.
B. Squaw Harbor (Baralof Bay): all waters in Squaw Harbor west of the longitude of the east end of the Peter Pan Seafood's dock.
C. Delarof Harbor: all waters in Delarof Harbor west of 160°30' W. long.
D. Acheredin Bay: all waters in Acheredin Bay north of 55°10' N. lat.
E. Fox Hole (Little Harbor): all waters in Fox Hole west of 160°19'45" W. long.
F. Dorenoi Bay: all waters in Dorenoi Bay west of a line extending from the north shore of Dorenoi Bay at 55°39'12" N. lat., 160°23'06" W. long. to a point on the south shore of Dorenoi Bay at 55°37'54" N. lat., 160°24'36" W. long.
G. Chichagof Bay: all waters in Chichagof Bay north of a line extending from the eastern shore of Chichagof Bay at 55° 39'36" N. lat., 160°13'30" W. long. to a point on the eastern shore of Chichagof Bay at 55°38'56" N. lat., 160°15' W. long.
H. Clark Bay: all waters of Clark Bay north of a line extending from the eastern shore of Clark Bay at 55°47' N.lat., 160°58'45" W. long. to a point on the western shore of Clark Bay at 55°45'30" N. lat., 160°02'55" W. long.
I. Grub Gulch: all waters of Grub Gulch north of 55°48' N. lat.
J. Island Bay: all waters of Island Bay east of 159°38'12" W. long.
K. Fox Bay:
   (1) all waters of the northeast head of Fox Bay east of 159°37'18" W. long.
   (2) all waters of the southeast head of Fox Bay east of a line extending from the north shore of the southeast head of Fox Bay at 55°37'07" N. lat., 159°38'12" W. long. to a point on the south shore of the southeast head of Fox Bay at 55°36'48" N. lat., 159°38'30" W. long.
L. Boulder Bay: all waters of Boulder Bay east of 159°43' W. long.

All other closed waters are as listed in 5 AAC 09.350 in the finfish regulation book.

JUSTIFICATION: Fishing time is needed to harvest coho salmon which are entering local bays at this time. Pink salmon escapements into late run systems have improved over the past week and pink and chum salmon are schooled at the heads of several bays in the Southeastern District. The expanded closed waters areas are needed to protect water marked-schooled salmon at the heads of the bays. Set gillnet effort should not affect pink salmon escapements and purse seine effort is expected to be light and concentrated on capes rather than in bays.

It is appropriate to reopen the Southeastern District to commercial salmon fishing at 9:00 a.m. Sunday, September 1 until 8:00 p.m. Tuesday, September 3 to harvest coho salmon surplus to the escapement needs of local systems. At this time there are no pink salmon markets.

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EMERGENCY ORDER N0. 4-FS-M-CB-66-96
EFFECTIVE DATE: 8:00 p.m., September 4, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 72 hours until 8:00 p.m. September 7 in the Northwestern, Unimak, Southwestern, and South Central districts.

JUSTIFICATION: Except for a strong Coho catch in Thin Point Cove (where there is a good escapement) on September 1, there has been no commercial effort since the present fishing period opened, due to weather. Continued windy weather is forecasted for September 4. More Fishing time is needed for the fishermen to harvest the resource

EMERGENCY ORDER NO. 4-FS-M-SP-41-96
EFFECTIVE DATE: 9:00 a.m., 8:00 p.m. September 6, 1996

EXPLANATION: This emergency order allows a 35 hour commercial salmon fishing period from 9:00 a.m. Friday, September 6, 1996 until 8:00 p.m. Saturday, September 7, 1996 in the Southeastern District.

Closed waters are expanded to include all waters as follows:

A. Zachary Bay: all waters in Zachary Bay south of 55°21' N. lat.
B. Squaw Harbor (Baralof Bay): all waters in Squaw Harbor west of the longitude of the east end of the Peter Pan Seafood's dock.
C. Delarof Harbor: all waters in Delarof Harbor west of 160°30' W. long.
D. Acheredin Bay: all waters in Acheredin Bay north of 55°10' N. lat.
E. Fox Hole (Little Harbor): all waters in Fox Hole west of 160°19'45" W. long.
F. Dorenoi Bay: all waters in Dorenoi Bay west of a line extending from the north shore of Dorenoi Bay at 55°39'12" N. lat., 160°23'06" W. long. to a point on the south shore of Dorenoi Bay at 55°37'54" N. lat., 160°24'36" W. long.
G. Chichagof Bay: all waters in Chichagof Bay north of a line extending from the eastern shore of Chichagof Bay at 55° 39'36" N. lat., 160°13'30" W. long. to a point on the western shore of Chichagof Bay at 55°38'56" N. lat., 160°15' W. long.
H. Clark Bay: all waters of Clark Bay north of a line extending from the eastern shore of Clark Bay at 55°47' N.lat., 160°58'45" W. long. to a point on the western shore of Clark Bay at 55°45'30" N. lat., 160°02'55" W. long.
I. Grub Gulch: all waters of Grub Gulch north of 55°48' N. lat.
J. Island Bay: all waters of Island Bay east of 159°38'12" W. long.
K. Fox Bay:
   (1) all waters of the northeast head of Fox Bay east of 159°37'18" W. long.
   (2) all waters of the southeast head of Fox Bay east of a line extending from the north shore of the southeast head of Fox Bay at 55°37'07" N. lat., 159°38'12" W. long. to a point on the south shore of the southeast head of Fox Bay at 55°36'48" N. lat., 159°38'30" W. long.
L. Boulder Bay: all waters of Boulder Bay east of 159°43' W. long.

All other closed waters are as listed in 5 AAC 09.350 in the finfish regulation book.

JUSTIFICATION: Fishing time is needed to harvest coho salmon which are entering local bays at this time.

Pink salmon escapements into late run systems have improved over the past week and pink and chum salmon are schooled at the heads of several bays in the Southeastern District. The expanded closed waters areas are needed to protect water marked-schooled salmon at the heads of the bays. Set gillnet effort should not affect pink salmon escapements and purse seine effort is expected to be light and concentrated on capes rather than in bays.

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It is appropriate to reopen the Southeastern District to commercial salmon fishing at 9:00 a.m. Friday, September 6 until 8:00 p.m. Saturday, September 7 to harvest coho salmon surplus to the escapement needs of local systems. At this time there are no pink salmon markets.

EMERGENCY ORDER N0. 4-FS-M-CB-67-96
EFFECTIVE DATE: 8:00 p.m., September 7, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 48 hours until 8:00 p.m. September 9 in the Northwestern, Unimak, Southwestern, and South Central districts.

JUSTIFICATION: Due to inclement weather, almost no fishing has taken place in the Northwestern District and the western part of the South Peninsula since the fishery reopened on September 1. The weather does not appear fishable today. Effort is also very light, consisting of less than 10 units of gear. More fishing time is necessary to give the fishermen an opportunity to harvest the resource.

EMERGENCY ORDER N0. 4-FS-M-CB-68-96
EFFECTIVE DATE: 8:00 p.m., September 9, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 72 hours until 8:00 p.m. September 12 in the Northwestern, Unimak, Southwestern, and South Central districts.

JUSTIFICATION: Fishing effort remains light and weather continues to limit fishing time. All effort has been concentrated at Thin Point Cove and Urilia Bay, where the coho runs are strong. There is a large escapement of coho in Thin Point Lagoon and a recent survey indicted large numbers of coho moving into Christianson Lagoon (where visibility is too poor for a count). More fishing time can be allowed to harvest coho while achieving adequate escapements.

EMERGENCY ORDER NO. 4-FS-M-SP-42-96
EFFECTIVE DATE: 9:00 a.m., September 10, 1996

EXPLANATION: This emergency order allows a 83 hour commercial salmon fishing period from 9:00 a.m. Tuesday, September 10, 1996 until 8:00 p.m. Friday, September 13, 1996 in the Southeastern District.

Closed waters are expanded to include all waters as follows:

A. Zachary Bay: all waters in Zachary Bay south of 55°21' N. lat.
B. Squaw Harbor (Baralof Bay): all waters in Squaw Harbor west of the longitude of the east end of the Peter Pan Seafood's dock.
C. Delarof Harbor: all waters in Delarof Harbor west of 160°30' W. long.
D. Acheredin Bay: all waters in Acheredin Bay north of 55°10' N. lat.
E. Fox Hole (Little Harbor): all waters in Fox Hole west of 160°19'45" W. long.
F. Dorenoi Bay: all waters in Dorenoi Bay west of a line extending from the north shore of Dorenoi Bay at 55°39'12" N. lat., 160°23'06" W. long. to a point on the south shore of Dorenoi Bay at 55°37'54" N. lat., 160°24'36" W. long.
G. Chichagof Bay: all waters in Chichagof Bay north of a line extending from the eastern shore of Chichagof Bay at 55° 39'36" N. lat., 160°13'30" W. long. to a point on the western shore of Chichagof Bay at 55°38'56" N. lat., 160°15' W. long.

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H. Clark Bay: all waters of Clark Bay north of a line extending from the eastern shore of Clark Bay at 55°47' N.lat., 160°58'45" W. long. to a point on the western shore of Clark Bay at 55°45'30" N. lat., 160°02'55" W. long.
I. Grub Gulch: all waters of Grub Gulch north of 55°48' N. lat.
J. Island Bay: all waters of Island Bay east of 159°38'12" W. long.
K. Fox Bay:
   (1) all waters of the northeast head of Fox Bay east of 159°37'18" W. long.
   (2) all waters of the southeast head of Fox Bay east of a line extending from the north shore of the southeast head of Fox Bay at 55°37'07" N. lat., 159°38'12" W. long. to a point on the south shore of the southeast head of Fox Bay at 55°36'48" N. lat., 159°38'30" W. long.
L. Boulder Bay: all waters of Boulder Bay east of 159°43' W. long.

All other closed waters are as listed in 5 AAC 09.350 in the finfish regulation book.

JUSTIFICATION: Fishing time is needed to harvest coho salmon which are entering local bays at this time. Pink salmon escapements into late run systems have improved over the past week and some pink and chum salmon are schooled at the heads of several bays in the Southeastern District. The expanded closed waters areas are needed to protect water marked-schooled salmon at the heads of the bays.

Set gillnet effort should not affect pink salmon escapements. Set gillnet effort is expected to decrease as fishermen end their season. ADF&G does not anticipate any purse seine effort.

It is appropriate to reopen the Southeastern District to commercial salmon fishing at 9:00 a.m. Tuesday, September 10 until 8:00 p.m. Friday, September 13 to harvest coho salmon surplus to the escapement needs of local systems. At this time there are no pink salmon markets.

EMERGENCY ORDER N0. 4-FS-M-CB-69-96
EFFECTIVE DATE: 8:00 p.m., September 12, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 96 hours until 8:00 p.m. September 16 in the Northwestern, Unimak, Southwestern, and South Central districts.

JUSTIFICATION: Fishing effort remains light and weather continues to limit fishing time. All effort has been concentrated at Thin Point Cove and Urilia Bay, where the coho runs are strong. There is a large escapement of coho in Thin Point Lagoon and a recent survey indicted large numbers of coho moving into Christianson Lagoon. More fishing time can be allowed to harvest coho while achieving adequate escapements.

EMERGENCY ORDER NO. 4-FS-M-SP-43-96
EFFECTIVE DATE: 9:00 a.m., September 16, 1996

EXPLANATION: This emergency order establishes weekly commercial salmon fishing periods during the remainder of the commercial salmon fishing season which ends September 30. Beginning September 16, commercial salmon fishing periods will start at 9:00 a.m. Monday and end at 8:00 p.m. Friday.

Closed waters are expanded to include all waters as follows:
A. Zachary Bay: all waters in Zachary Bay south of 55°21' N. lat.

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B. Squaw Harbor (Baralof Bay): all waters in Squaw Harbor west of the longitude of the east end of the Peter Pan Seafood's dock.
C. Delarof Harbor: all waters in Delarof Harbor west of 160°30' W. long.
D. Acheredin Bay: all waters in Acheredin Bay north of 55°10' N. lat.
E. Fox Hole (Little Harbor): all waters in Fox Hole west of 160°19'45" W. long.
F. Dorenoi Bay: all waters in Dorenoi Bay west of a line extending from the north shore of Dorenoi Bay at 55°39'12" N. lat., 160°23'06" W. long. to a point on the south shore of Dorenoi Bay at 55°37'54" N. lat.,
G. Chichagof Bay: all waters in Chichagof Bay north of a line extending from the eastern shore of Chichagof Bay at 55° 39'36" N. lat., 160°13'30" W. long. to a point on the eastern shore of Chichagof Bay at 55°38'56" N. lat., 160°15' W. long.
H. Clark Bay: all waters of Clark Bay north of a line extending from the eastern shore of Clark Bay at 55°47' N.lat., 160°58'45" W. long. to a point on the western shore of Clark Bay at 55°45'30" N. lat., 160°02'55" W. long.
I. Grub Gulch: all waters of Grub Gulch north of 55°48' N. lat.
J. Island Bay: all waters of Island Bay east of 159°38'12" W. long.
K. Fox Bay:
   (1) all waters of the northeast head of Fox Bay east of 159°37'18" W. long.
   (2) all waters of the southeast head of Fox Bay east of a line extending from the north shore of the southeast head of Fox Bay at 55°37'07" N. lat., 159°38'12" W. long. to a point on the south shore of the southeast head of Fox Bay at 55°36'48" N. lat., 159°38'30" W. long.
L. Boulder Bay: all waters of Boulder Bay east of 159°43' W. long.

All other closed waters are as listed in 5 AAC 09.350 in the finfish regulation book.

JUSTIFICATION: Fishing time is needed to harvest coho salmon which are entering local bays at this time.

Some pink and chum salmon are still schooled at the heads of several bays in the Southeastern District. The expanded closed waters areas are needed to protect water marked-schooled salmon at the heads of the bays. Aerial surveys of September 8 and 9 indicate that except for a few pink salmon streams, sockeye, pink, and chum salmon escapements are good in the Southeastern District.

Set gillnet effort is expected to decrease as fishermen end their season, especially in the Southeastern District Mainland area where tender service is normally suspended after September 15, and should not affect pink salmon escapements. ADF&G does not anticipate any purse seine effort.

September weather will probably reduce actual fishing time to three or four days per week. With actual fishing time estimated at three or four days per week, decreasing effort, and additional closed water adjustments, coho salmon escapements should also be adequate to good in Southeastern District streams.

Due to lower fishing effort, a 9:00 a.m. Monday through 8:00 p.m. Friday, weekly fishing schedule during September 16-27 is warranted to harvest coho salmon surplus to the escapement needs of local systems.

EMERGENCY ORDER N0. 4-FS-M-CB-70-96
EFFECTIVE DATE: 8:00 p.m., September 16, 1996

EXPLANATION: This emergency order extends commercial salmon fishing time 48 hours until 8:00 p.m. September 18 in the Northwestern, Unimak, Southwestern, and South Central districts.

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JUSTIFICATION: Fishing effort remains light and weather continues to limit fishing time. All effort has been concentrated at Thin Point Cove and Urilia Bay, where the coho runs are strong. There is a large escapement of coho in Thin Point Lagoon and a recent survey indicted large numbers of coho moving into Christianson Lagoon. More fishing time can be allowed to harvest coho while achieving adequate escapements.

EMERGENCY ORDER NO. 4-FS-M-SP-44-96
EFFECTIVE DATE:12:01 a.m., October 1, 1996

EXPLANATION: This emergency order extends the current commercial salmon fishing season until 8:00 p.m. on October 31 in the Southeastern District.

JUSTIFICATION: Fishing time is needed to harvest coho salmon which are entering local bays at this time.

Set gillnet effort is expected to decrease as fishermen end their season, and should not affect pink or chum salmon escapements. ADF&G does not anticipate any purse seine effort.

September and October weather will probably reduce actual fishing time to three or four days per week. With actual fishing time estimated at three or four days per week, and decreasing effort, coho salmon escapements should be adequate to good in Southeastern District streams.

Due to lower fishing effort, a 9:00 a.m. Monday through 8:00 p.m. Friday, weekly fishing schedule during September 16-October 31 is warranted to harvest coho salmon surplus to the escapement needs of local systems.

Appendix F.1. Salmon escapement survey counts in the South Peninsula, 1996.

Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Near Bluff Point 281-3507	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water - no fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Stream blocked off. No fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent - high altitude survey. Low water level. Did not see any fish or carcasses.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Boulder Bay 281-3506	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low water. Pinks were spotted at the mouth of the lagoon.
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	450	400	DISTANCE SURVEYED ENTIRE STREAM. 150 of the pinks were in the lagoon. Plus 50 carcasses in stream. Low water level.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	2500	500	DISTANCE SURVEYED: ENTIRE STREAM. Plus 500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Fox Bay 3505 281-3505	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, high altitude survey.
			Mouth	F	0	0	0	1000	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low
			Mouth	G	0	0	0	5000	0	water.
			Bay		0	0	0	0	0	
	8/29/96	ROD	Stream	P	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent - high altitude
		CAMPBELL	Mouth	P	0	0	0	0	0	survey. Low water level. Could not see many fish, but did
			Bay		0	0	0	0	0	see 500 pink carcasses - estimate may be low.
	9/7/96	ROD	Stream	G	0	0	0	1950	0	DISTANCE SURVEYED: ENTIRE STREAM. 800 of the pinks were in
		CAMPBELL	Mouth	G	0	0	0	0	0	the lagoon. Plus 500 pink carcasses.
			Bay		0	0	0	0	0	
Fox Bay 3504 281-3504	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish
			Mouth	G	0	0	0	200	0	seen in stream.
			Bay		0	0	0	0	0	
	8/9/96	ROD	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM.
		CAMPBELL	Mouth	G	0	0	0	1000	0	
			Bay	G	0	0	0	2500	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low
			Mouth	G	0	0	0	2000	0	water.
			Bay		0	0	0	0	0	
	8/29/96	ROD	Stream	P	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent - high altitude
		CAMPBELL	Mouth	P	0	0	0	0	0	survey. Low water level. Plus 200 pink carcasses - estimate
			Bay		0	0	0	0	0	may be low.
	9/7/96	ROD	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 100 pink carcasses.
		CAMPBELL	Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Fox Bay 3502 281-3502	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish
			Mouth	G	0	0	0	1300	0	seen in the stream.
			Bay		0	0	0	0	0	
	8/9/96	ROD	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM.
		CAMPBELL	Mouth	G	0	0	0	800	0	
			Bay	G	0	0	0	1500	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD	Stream	G	0	0	0	6500	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water level.1,500 of
		CAMPBELL	Mouth	G	0	0	0	0	0	pinks in lagoon, balance in lower end of stream. Plus 500
			Bay		0	0	0	0	0	pink carcasses.

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	11000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,000 carcasses.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
Fox Bay 3501 281-3501	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; very little water in stream.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water level.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	150	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Island Bay 3408 281-3408	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish in stream.
			Mouth	G	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	75	0	
			Bay	G	0	0	0	1000	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low water.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water level. Plus 100 pink carcasses.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	2500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
Island Bay 3407 281-3407	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. good conditions, no fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	500	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low
			Mouth	G	0	0	0	25	0	water.
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	400	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water level.
			Mouth	G	0	0	0	700	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Island Bay 3406 281-3406	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish
			Mouth	G	0	0	0	1750	0	seen in stream. 3,500 pinks spotted at mouth. They are
			Bay		0	0	0	0	0	shared with stream 281-3405.
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	200	0	DISTACE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	1000	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Stream shares the mouth
			Mouth	G	0	0	0	2500	0	with 34.05. A total of 5,000 pinks were seen at the mouth
			Bay		0	0	0	0	0	Low water level.
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 700 pink carcasses -
			Mouth	G	0	0	0	500	0	low water level.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	6800	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,000 pink carcasses.
			Mouth	G	0	0	0	300	0	
			Bay		0	0	0	0	0	
Island Bay 3405 281-3405	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish
			Mouth	G	0	0	0	1750	0	seen in stream. 3,500 pinks spotted at mouth. They are
			Bay		0	0	0	0	0	shared with stream 281-3406.
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Streams 34.05 and 34.06
			Mouth	G	0	0	0	2500	0	share the same mouth. A total of 5,000 pinks were seen at the
			Bay		0	0	0	0	0	mouth. Low water level.
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	4500	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,500 pink carcasses.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	8000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Island Bay 3404 281-3404	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish seen in stream.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	50	0	DISTANCE SURVEYED: ENTIRE STREAM. All fish were in the lower end near the stream mouth.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 100 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	2100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 700 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Stonehouse 281-3403	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions; no fish seen in stream.
			Mouth	G	0	0	0	1800	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. 1,000 of these pinks were in the lagoon.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	10500	0	DISTANCE SURVEYED: ENTIRE STREAM. 2,500 of the pinks were in the lagoon. Plus 500 pink carcasses.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	17800	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Osterback's Creek 281-3402	8/5/96	JIM COFSKE	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2200	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	3500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	3500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	9500	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	16000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus lots of pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Granville Bay 281-3401	8/5/96	JIM COFSKE	Stream	G	0	0	0	25	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, high altitude survey. Could have missed some fish but no obvious buildup of fish.
			Mouth	P	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	700	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	1000	0	
			Bay	G	0	0	0	2000	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	5000	500	DISTANCE SURVEYED: ENTIRE STREAM. 2,000 of the pinks were in the lagoon. Plus 1,000 salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	10800	2000	DISTANCE SURVEYED: ENTIRE STREAM. 800 of the pinks were in the lagoon. Plus 5,000 salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Granville Portage 281-3306	8/14/96	JIM COFSKE	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Very muddy - could not see any fish or jumpers.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Stepovak River 281-3305	8/5/96	JIM COFSKE	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. bay only, between 33.05 - 33.04, 500 salmon sharks were also seen. River is very muddy.
			Mouth		0	0	0	0	0	
			Bay	G	0	0	0	0	15000	

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Stream	Date mm-dd-yy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	0	2000	DISTANCE SURVEYED: PARTIAL. Mouth and main stem muddy. All fish seen in clear tributaries up the valley.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	P	0	0	0	1500	1200	DISTANCE SURVEYED: PARTIAL. Main stream muddy. Two clear tributaries, 1,200 chum, 1,500 pinks. Other tributaries poor.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	P	0	0	500	1600	0	DISTANCE SURVEYED: PARTIAL. Clear tributary near beach only Mouth and main stem muddy, normally clear tributaries muddy.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	F	0	0	0	0	30200	DISTANCE SURVEYED: PARTIAL. Surveyed clear tributaries only. The main stem was muddy. 10,000 chum carcasses were also seen.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Big River 281-3304	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	4000	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	R	0	0	0	0	500	DISTANCE SURVEYED: PARTIAL. Clear trib only - low light conditions - main stem murky. 3,000 chum along beach between 31.04 and 33.05. Also about 500 salmon sharks in that area.
			Mouth	R	0	0	0	0	1500	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	0	100	DISTANCE SURVEYED: PARTIAL. Clear tributaries only. Mouth and main stem muddy. Plus 5,000 salmon in bay, mostly chums and a few bright pinks.
			Mouth	P	0	0	0	0	2500	
			Bay	P	0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	6400	DISTANCE SURVEYED: ENTIRE STREAM. Good stream clarity.
			Mouth	P	0	0	0	0	800	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	15000	12800	DISTANCE SURVEYED: ENTIRE STREAM. Main stem was muddy but could see fish moving. 5,000 of the pinks were in the slough, balance were in lower end of stream. Most chums in clear tributaries. Plus 5,000 salmon carcasses.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	G	0	0	800	5700	2400	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Louie's Corner 281-3303	7/29/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: CLEAR TRIBS ONLY. Very turbulent, high altitude survey - mouth muddy. 2,000 chum along beach in Ramsey Bay.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	0	300	DISTANCE SURVEYED: PARTIAL. Clear tributary only. Main stem muddy.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	500	DISTANCE SURVEYED: ENTIRE STREAM. Right fork is clear - main
			Mouth	G	0	0	0	0	0	stem was muddy.
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	0	300	DISTANCE SURVEYED: ENTIRE STREAM. Murky water - even
			Mouth	P	0	0	0	0	0	normally clear trib was murky, low light conditions.
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Mouth and beach only. 10,000
			Mouth	P	0	0	0	0	0	salmon along beach between 33.03 and 33.04, mostly watermarked
			Bay	F	0	0	0	2000	8000	chum plus a few bright pinks. Jumpers all along that area.
	8/14/96	JIM COFSKE	Stream	P	0	0	0	0	2600	DISTANCE SURVEYED: PARTIAL. Triburary clear. Main stream
			Mouth	P	0	0	0	0	0	and mouth muddy.
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	6800	2200	DISTANCE SURVEYED: PARTIAL. Clear tributaries only. Main
			Mouth	P	0	0	0	0	0	stem muddy. Plus 3,000 salmon carcasses.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	P	0	0	0	10100	5000	DISTANCE SURVEYED: PARTIAL. Clear tributaries. Main stem
			Mouth	P	0	0	0	0	0	and mouth muddy.
			Bay		0	0	0	0	0	
2nd Stm N RockWall 281-3302	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: MOUTH ONLY. Muddy. Jumpers along rock
			Mouth	P	0	0	0	0	0	wall to Dent Point.
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Murky - unable to see any fish.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	p	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Stream is muddy. 7,000
			Mouth	p	0	0	0	0	0	fish in Ramsey Bay. They are probably chums with some pinks
			Bay	G	0	0	0	0	7000	mixed in.
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	800	300	DISTANCE SURVEYED: PARTIAL. Mouth and lower 1/3 of stream
			Mouth	P	0	0	0	0	0	murky water, low light.
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Bay only - 7,000 salmon mostly
			Mouth		0	0	0	0	0	watermarked chum and a few bright pinks plus 200 coho(?)
			Bay	F	0	0	300	1000	6000	(questionable) along beach between 33.03 and 33.02. Jumpers
										all along that area.
	8/14/96	JIM COFSKE	Stream	F	0	0	0	0	7000	DISTANCE SURVEYED: ENTIRE STREAM. Fair conditions.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/29/96	ROD CAMPBELL	Stream	F	0	0	0	5000	8000	DISTANCE SURVEYED: ENTIRE STREAM. Water murky. Plus 3,000 salmon carcasses.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
1st Stm N Rock Wall 281-3301	8/5/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Stream is murky. No fish seen due to poor conditions.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Murky water, low light - nothing.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Stream is muddy.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	F	0	0	0	2500	1000	DISTANCE SURVEYED: ENTIRE STREAM Water murky. Plus 1,000 salmon carcasses.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
Grub Gulch 281-3207	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	NO SURVEY. Too turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	1300	800	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Turbulent - dark stream bed, low light.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	15000	900	DISTANCE SURVEYED: ENTIRE STREAM Low light.
			Mouth	F	0	0	0	300	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	30000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	6000	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	25000	5000	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,500 salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	30000	4800	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Clark Bay SW 281-3205	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: MOUTH ONLY. Turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/2/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Mouth only, turbulent.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	2500	1000	DISTANCE SURVEYED: ENTIRE STREAM. Additional 1,500 pinks along the beach.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	500	0	
			Bay	G	0	0	0	700	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	1800	500	DISTANCE SURVEYED: ENTIRE STREAM. Plus lots of salmon carcasses.
			Mouth	G	0	0	0	700	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	G	0	0	500	9000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Little Norway 281-3204	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: MOUTH ONLY. Turbulent.
			Mouth	P	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	700	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light - all fish in lower end near the mouth.
			Mouth	F	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	1700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1500	0	
			Bay	G	0	0	0	200	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	5000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditios.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	1000	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	6300	1000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	G	0	0	0	15500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 3,000 pink carcasses were seen. Includes 1,500 pinks in normally dry right fork.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Orzinski Bay 281-3103	8/14/96	JIM COFSKE	Stream	G	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	25000	0	DISTANCE SURVEYED: ENTIRE STREAM. Sockeye spawning in lake and spring area.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	G	0	0	100	12000	0	DISTANCE SURVEYED: PARTIAL. Surveyed below the ADF&G cabin to mouth. It was too turbulent to survey the upper river.
			Mouth	G	0	0	300	0	0	
			Bay		0	0	0	0	0	
Windbound Bay 281-2004	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	NO SURVEY. Turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	F	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM. All fish in lower end near mouth. Low light.
			Mouth	F	0	0	0	300	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Drizzle, low light. No fish seen in stream. All backed out into the mouth. Low water.
			Mouth	F	0	0	0	700	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	4700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	F	0	0	0	7000	0	DISTANCE SURVEYED: ENTIRE STREAM. Fair conditions. The bottom of the stream was dark, hard to spot fish.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
Chichagof Bay E Side 281-2003	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in stream.
			Mouth	G	0	0	0	0	2000	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	500	2000	DISTANCE SURVEYED: ENTIRE STREAM. Low light, high altitude survey.
			Mouth	F	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	2500	2500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/14/96	JIM COFSKE	Stream	G	0	0	0	1200	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 7,000
			Mouth	G	0	0	0	0	0	pinks between bay and lagoon, possibly some chum mixed in.
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	3500	1000	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 salmon
			Mouth	G	0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
Chichagof Bay Stream 281-2002	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in stream.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	F	0	0	0	0	500	DISTANCE SURVEYED: ENTIRE STREAM. Low light - high altitude
			Mouth	F	0	0	0	2500	0	survey.
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	1500	900	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	4000	3200	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 1,000
			Mouth	G	0	0	0	0	0	pinks in lagoon.
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	18000	3000	DISTANCE SURVEYED: ENTIRE STREAM. 4,000 of the pinks in
			Mouth	G	0	0	0	0	0	lagoon. Plus 1,000 salmon carcasses.
			Bay		0	0	0	0	0	
Chichagof Bay W Side 281-2001	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in stream.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light - high altitude.
			Mouth	F	0	0	0	0	0	Did not see any fish.
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	5000	500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3500	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream		0	0	0	10000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	5000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 salmon
			Mouth	G	0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
West Cove 281-1004	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing yet.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/29/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. Mouth and stream muddy.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Lower 1/2 mile only. Turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	700	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 100 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Suzy Creek 281-1003	7/22/96	ARNIE SHAUL	Stream	E	0	0	0	5000	0	DISTANCE SURVEYED: ENTIRE STREAM. In small schools all the way up.
			Mouth	G	0	0	0	14000	0	
			Bay		0	0	0	0	0	
	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	22100	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	5000	0	
			Bay		0	0	0	0	0	
	7/29/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: MOUTH ONLY. Turbulent.
			Mouth	F	0	0	0	300	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	G	0	0	0	85200	0	DISTANCE SURVEYED: ENTIRE STREAM. Fish distributed throughout stream.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	G	0	0 0	1	25000	0	DISTANCE SURVEYED: ENTIRE STREAM. Fish distributed throughout stream. A few carcasses in upper portion. Low water.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0 0	1	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good visibility - high altitude flying. Fish distributed throughout the stream.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	50000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus thousands of carcasses. (More carcasses than fish.)
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Dorenoi Bay NE River 281-1002	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low water. About 700 pinks in lagoon. 2,500 pinks along shore in the bay.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	2500	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. High altitude survey. Stream bed dry above first 1/3 mile of stream.
			Mouth	F	0	0	0	500	0	
			Bay		0	0	0	0	0	
Dorenoi Bay SW 281-1001	8/9/96	ROD CAMPBELL	Stream	G	0	0	0	6700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	6500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	17300	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. High altitude survey.
			Mouth	F	0	0	0	3000	0	
			Bay		0	0	0	0	0	
San Diego Lgn & Strm 281-9004	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	500	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	2000	1000	DISTANCE SURVEYED: ENTIRE STREAM. Rain, fog, turbulent, high altitude, low light.
			Mouth	P	0	0	0	1750	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	1500	700	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, drizzle, high altitude survey.
			Mouth	P	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: partial lagoon only, Turbulent, drizzle, high altitude survey. 3,000 pinks in lagoon only.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	5000	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/24/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LAGOON ONLY. 10,000 pinks. Good conditions.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	400	0	DISTANCE SURVEYED: ENTIRE STREAM. turbulent. High altitude survey.
			Mouth	P	0	0	0	500	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	F	0	0	0	800	1200	DISTANCE SURVEYED: ENTIRE STREAM. Dark (low light level).
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Lagoon only. 800 pink salmon in lagoon. Good conditions.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
W Side San Diego Bay 281-9003	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTACE SURVEYED: ENTIRE STREAM. Nothing yet.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Mouth and lower 1/4 mile of stream. Rain, fog, turbulent, high altitude, low light.
			Mouth	P	0	0	0	1750	0	
			Bay		0	0	0	0	0	
	8/9/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, drizzle, high altitude survey.
			Mouth	P	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Very turbulent - unable to see anything.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	F	0	0	0	2000	1100	DISTANCE SURVEYED: ENTIRE STREAM. Dark. (Low light level).
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
Rough Beach 281-9002	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing yet.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/29/96	ROD CAMPBELL	Stream	F	0	0	0	2000	0	DISTANCE SURVEYED: PARTIAL. Turbulent - lower 1/2 of stream only, plus 300 pinks along beach.
			Mouth	F	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/2/96	ROD CAMPBELL	Stream	G	0	0	0	10900	0	DISTANCE SURVEYED: PARTIAL. Lower 1/2 only. Good conditions lower end, however very turbulent upper end, and low ceiling.
			Mouth	G	0	0	0	300	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	17200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	39700	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	42700	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 3,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Swedania Pt. Stream 281-9001	8/2/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Surveyed mouth only. Turbulent, low ceiling.
			Mouth	F	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	10000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	4800	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	30000	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	36800	0	DISTANCE SURVEYED: ENTIRE STREAM. Good escapement. Plus 3,500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Ballast Is. Stream 281-8016	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. High altitude survey. Another 500 pinks along beach.
			Mouth	G	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light.
			Mouth	F	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. No fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Did not see any fish.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Coleman Creek 281-8015	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	0	50	DISTANCE SURVEYED: ENTIRE STREAM. High altitude survey.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	800	200	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	7000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	4000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	G	0	0	0	9400	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent - but still good
			Mouth	G	0	0	0	1500	0	conditions. Plus 3,500 pinks in saltwater.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	25000	10000	DISTANCE SURVEYED: ENTIRE STREAM. Species ID at mouth
			Mouth	G	0	0	500	0	2000	questionable. Looks like some were coho.
			Bay		0	0	0	0	0	
Johnson Creek 281-8014	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	150	350	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	150	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	2000	500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	10000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	11500	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent.
			Mouth	F	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	16700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	800	0	
			Bay		0	0	0	0	0	
Foster's Camp Creek 281-8012	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	150	0	DISTANCE SURVEYED: ENTIRE STREAM. All fish in lower part of
			Mouth	G	0	0	0	200	0	stream near mouth.
			Bay		0	0	0	0	0	

-Continued-

Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions, low light, turbulent, rain.
			Mouth	P	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent - high altitude survey.
			Mouth	F	0	0	0	200	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	4100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 200 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Monolith Pt. Creek 281-8011	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	75	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	2500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low water level.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. High altitude survey.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	3300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Foster Creek 281-8009	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	3100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 10,000 pinks along beach - most between 80.08 and 80.09.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	4900	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 pinks along beach between 80.08 and 80.09.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	10300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 pinks along the beach between 80.08 and 80.09.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/13/96	JIM COFSKE	Stream	G	0	0	0	32000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	4000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream		0	0	0	17700	0	DISTANCE SURVEYEDD: ENTIRE STREAM. Plus 6,000 pink carcasses.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	F	0	0	0	20000	800	DISTANCE SURVEYED: ENTIRE STREAM. Water murky. Species ID
			Mouth	F	0	0	0	0	0	questionable. Plus 3,500 carcasses.
			Bay		0	0	0	0	0	
Lefthand Bay Kagayan 281-8008	7/29/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen at mouth.
			Mouth	F	0	0	0	0	0	Stream was too muddy to see any fish.
			Bay		0	0	0	0	0	
	8/3/96	ROD CAMPBELL	Stream	G	0	0	0	1000	800	DISTANCE SURVEYED: ENTIRE STREAM. High altitude survey.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	9000	3600	DISTANCE SURVEYED: ENTIRE STREAM. Murky water, low light.
			Mouth	P	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	G	0	0	0	20000	1500	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	200	21000	3000	DISTANCE SURVEYED: ENTIRE STREAM. Fair conditions - water
			Mouth	F	0	0	0	0	0	murky - species ID difficult. 1,000 salmon carcasses.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	P	0	0	0	16000	1100	DISTANCE SURVEYED: PARTIAL. Clear tributaries only. Main
			Mouth	P	0	0	0	0	0	stem muddy, clear tributaries murky.
			Bay		0	0	0	0	0	
Cape Alaksin, East 281-8006	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen in stream.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	3100	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/24/96	ROD CAMPBELL	Stream	G	0	0	0	18000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	20900	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Cape Aliaksin, Cntr 281-8005	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen in stream.
			Mouth	G	0	0	0	750	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	750	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	G	0	0	0	10000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	12300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 500 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Cape Aliaksin, West 281-8004	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen in stream.
			Mouth	G	0	0	0	500	0	Flew at 1,000'.
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/14/96	JIM COFSKE	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	G	0	0	0	15700	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	19300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Beaver River 281-7005	7/25/96	ROD CAMPBELL	Stream	p	0	0	0	18000	3600	DISTANCE SURVEYED: ENTIRE STREAM. Switched pilots.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. River is very muddy. No
			Mouth	P	0	0	0	0	0	fish spotted.
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: NO SURVEY. Too muddy to see anything.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	25000	15000	DISTANCE SURVEYED: ENTIRE STREAM. Species I.D. difficult.
			Mouth	G	0	0	0	0	0	Plus 500 chum carcasses.
			Bay		0	0	0	0	0	
	8/13/96	JIM COFSKE	Stream	P	0	0	0	9000	8000	DISTANCE SURVEYED: PARTIAL. Main stream muddy.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	36000	8000	DISTANCE SURVEYED: PARTIAL - below upper forks. Mainstem
			Mouth	P	0	0	0	0	0	muddy - other tributaries murky. Could see fish movin
			Bay		0	0	0	0	0	1,500 carcassess.
	8/30/96	JIM COFSKE	Stream	G	0	0	200	0	0	DISTANCE SURVEYED: PARTIAL. Landed on beach. Foot sg. Plus surve
			Mouth		0	0	0	0	0	lower stream and mouth.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	F	0	0	0	18000	5000	DISTANCE SURVEYED: PARTIAL. Clear tributaries only. Main
			Mouth		0	0	0	0	0	stem muddy, species ID questionable. Lots of carcasses.
			Bay		0	0	0	0	0	
Smiley's Creek 281-7004	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. River is very muddy in
			Mouth	P	0	0	0	0	0	lower section. No fish seen.
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Mouth and lower mile.
			Mouth	P	0	0	0	0	0	Turbulent, high altitude survey. No fish seen.
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	3400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	250	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/13/96	JIM COFSKE	Stream	G	0	0	0	6000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	4500	0	DISTANCE SURVEYED: PARTIAL - below forks. Plus 500 pink carcasses.
			Mouth	F	0	0	0	500	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	15900	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	50	0	
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	F	0	0	0	15000	0	DISTANCE SURVEYED: ENTIRE STREAM. Stream bed dark, mouth muddy. Plus 1,500 carcasses.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Unga Spit 282-1301	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions - no fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Dry Lagoon 282-1302	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	25000	700	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	G	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000 feet. Windy conditions, difficult to separate species.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	28500	0	DISTANCE SURVEYED: ENTIRE STREAM
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	20500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low light levels. 500 carcasses in stream.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	F	0	0	0	27500	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions. 1,500 pink carcasses in stream.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
Bay Point 282-1303	7/21/96	ROD CAMPBELL	Stream	G				500		DISTANCE SURVEYED: ENTIRE STREAM
			Mouth	G						
			Bay	G						

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Stream	Date dd-mm-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	10800	0	
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	G	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth	G	0	0	0	0	0	conditions, difficult to separate species
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	29600	0	DISTANCE SURVEYED: ENTIRE STREAM. Includes 3,000 pinks in lagoon.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	10000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/7/96	ARNIE SHAUL	Stream	G	0	0	0	23000	0	DISTANCE SURVEYED: ENTIRE STREAM. Additional 7,000 pinks in
			Mouth		0	0	0	0	0	lagoon.
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Low
			Mouth	P	0	0	0	0	0	light levels. 500 carcasses in stream.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	F	0	0	0	23700	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions.
			Mouth	F	0	0	0	0	0	Plus 7,000 pink carcasses in stream.
			Bay		0	0	0	0	0	
Pinnacle Point Strm. 282-1304	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen in stream.
			Mouth	G	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	6400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	JIM COFSKE	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	2500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Dark
			Mouth	P	0	0	0	700	0	conditions.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	F	0	0	0	6900	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions.
			Mouth	F	0	0	0	0	0	Plus 500 pink carcasses in stream.
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
2nd Str S of Pinn Pt 282-1305	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions - no fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
3rd Str S of Pinn Pt 282-1306	8/15/96	JIM COFSKE	Stream	P	0	0	0	5	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Too much brush over the creek to see much. Low water level.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Apollo Creek Minor 282-1002	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low water level.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	1100	0	DISTANCE SURVEYED: ENTIRE STREAM. Shadow - low light
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Apollo Creek Major 282-1003	8/1/96	ROD CAMPBELL	Stream	G	0	0	0	700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	200	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	4200	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	0	0	17000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,500 carcasses.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Acheredin Lake 282-1004	8/1/96	ROD CAMPBELL	Stream	G	0	3500	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Fish spread around lake.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	1500	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 1500 sockeye in lake, 1,000 pinks in lake. No fish spotted in creeks above lake.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	G	0	4200	0	1400	0	DISTANCE SURVEYED: ENTIRE STREAM. Sockeye in lake.
			Mouth	G	0	0	50	0	0	
			Bay		0	0	0	0	0	
Unnamed 1010 282-1010	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low water level in creek.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Apollo Gold Mine 282-1011	8/15/96	JIM COFSKE	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions.
			Mouth	P	0	0	0	0	0	Plus 1,500 pink carcasses.
			Bay		0	0	0	0	0	
Unga Cape Stream 282-1012	8/5/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions. Too much
			Mouth	P	0	0	0	0	0	overgrowth here to see stream.
			Bay		0	0	0	0	0	
	8/29/96	ROD CAMPBELL	Stream	P	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions.
			Mouth	P	0	0	0	0	0	Plus 150 pink carcasses.
			Bay		0	0	0	0	0	
Johnny Nelson Lake 282-1013	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Low
			Mouth	G	0	0	0	0	0	water at the mouth of the lagoon.
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Squaw Hbr. Minor 282-1014	8/5/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions - no fish
			Mouth	G	0	0	0	0	0	seen.
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. No fish
			Mouth	G	0	0	0	0	0	seen.
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	2500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 500
			Mouth	G	0	0	0	0	0	carcasses seen.
			Bay		0	0	0	0	0	
Squaw Hbr. Major 282-1015	8/5/96	JIM COFSKE	Stream	G	0	0	0	1100	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	7500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	15000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 1000
			Mouth	G	0	0	0	1000	0	pink carcasses.
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Ben Green Bight-Farm 282-1016	8/5/96	JIM COFSKE	Stream	G	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	2500	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Plus
			Mouth	G	0	0	0	1500	0	1,000 carcasses.
			Bay		0	0	0	0	0	
	9/7/96	ROD CAMPBELL	Stream	G	0	0	0	7000	300	DISTANCE SURVEYED: ENTIRE STREAM. Plus 300 salmon carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Red Cove-Popof 282-1020	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 150 coho
			Mouth	G	0	0	0	0	0	seen in the bay. Very little water flowing from creek.
			Bay	G	0	0	150	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. No fish
			Mouth	G	0	0	0	0	0	seen.
			Bay		0	0	0	0	0	
Zachary Bay 282-1210	7/25/96	ROD CAMPBELL	Stream							PARTIAL SURVEY: STREAM MOUTH ONLY
			Mouth	G					50	
			Bay							
	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. No fish
			Mouth	G	0	0	0	0	0	seen.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light and turbulence.
			Mouth	P	0	0	0	0	0	50 pink carcasses at mouth.
			Bay		0	0	0	0	0	
1st Stm S. of Qtz Pt 282-1209	8/15/96	JIM COFSKE	Stream	P	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light levels.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light and turbulence.
			Mouth	P	0	0	0	0	0	Could only see 175 pink carcasses.
			Bay		0	0	0	0	0	
2nd Stm S. of Qtz Pt 282-1208	8/15/96	JIM COFSKE	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light level. 1,000 pink carcasses seen in stream.
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light and turbulence.
			Mouth	P	0	0	0	0	0	Could only see 650 pink carcasses.
			Bay		0	0	0	0	0	
Zachary Bay 282-1207	7/25/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH ONLY.
			Mouth	G	0	0	0	0	200	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light levels and overhanging brush.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light. Couldonly see
			Mouth	P	0	0	0	0	0	carcasses. 200 pink carcasses at mouth and 100 pink(?)
			Bay		0	0	0	0	0	carcasses in stream.
Zachary Bay 282-1206	7/25/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH ONLY.
			Mouth	G	0	0	0	0	200	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light levels. No fish seen.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light. Could only see
			Mouth	P	0	0	0	0	0	carcasses. 200 pink carcasses.
			Bay		0	0	0	0	0	
Zachary Bay 282-1205	7/25/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH ONLY.
			Mouth	G	0	0	0	0	100	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	2500	0	light levels. 1,500 pink carcasses seen.
			Bay		0	0	0	0	0	
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light. Plus 4,000
			Mouth	P	0	0	0	0	0	salmon carcasses (2,000 at mouth, 2,000 in stream).
			Bay		0	0	0	0	0	
Zachary Bay 282-1204	7/25/96	ROD CAMPBELL	Stream		0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH ONLY.
			Mouth	G	0	0	0	0	200	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	700	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light levels. 500 carcasses seen - probably pink carcasses.
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/23/96	ROD	Stream	P	0	0	0	0	0	DISTRICT SURVEYED: ENTIRE STREAM. Low light. 1,000 salmon
		CAMPBELL	Mouth	P	0	0	0	0	0	carcasses at mouth.
			Bay		0	0	0	0	0	
Zachary Bay 282-1203	7/25/96	ROD	Stream		0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH ONLY. 500 pinks along beach.
		CAMPBELL	Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	200	0	light levels and overhanging brush.
			Bay		0	0	0	0	0	
	8/23/96	ROD	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions. 500
		CAMPBELL	Mouth	P	0	0	0	0	0	salmon carcasses at mouth.
			Bay		0	0	0	0	0	
Zachary Bay 282-1202	8/15/96	JIM COFSKE	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	0	0	light levels.
			Bay		0	0	0	0	0	
	8/23/96	ROD	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions and
		CAMPBELL	Mouth	P	0	0	0	0	0	turbulent. Unable to see any fish.
			Bay		0	0	0	0	0	
Coal Harbor West 282-1201	8/15/96	JIM COFSKE	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions due to low
			Mouth	P	0	0	0	100	0	light levels.
			Bay		0	0	0	0	0	
	8/23/96	ROD	Stream	F	0	0	0	550	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light conditions.
		CAMPBELL	Mouth	F	0	0	0	0	0	Plus 50 pink carcasses. 300 of 550 counted were in the lagoon.
			Bay		0	0	0	0	0	
Humboldt Creek-Popof 282-1018	7/21/96	ROD	Stream							
		CAMPBELL	Mouth							
			Bay							
	9/9/96	ROD	Stream			0	1	150	0	Foot survey plus-145 pink carcasses-looks like locals scooped
		CAMPBELL	Mouth			0	0	0	0	50+ pinks from culvert. Late survey-past peak.
			Bay			0	0	0	0	
Salmon Ranch-Popof 282-1101	8/8/96	ROD	Stream	G	0	0	0	150	0	DISTANCE SURVEYED: ENTIRE STREAM.
		CAMPBELL	Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	600	0	DISTANCE SURVEYED: ENTIRE STREAM. 400 pink carcasses
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date mm-dd-yy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/23/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Low light and turbulence. Could only see carcasses. 200 pink carcasses at mouth and 400 pink carcasses in stream.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Plus 1,000 carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Fox Hole-Popof 282-1103	8/8/96	ROD CAMPBELL	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. 100 pink carcasses spotted.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	F	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM. Fair conditions. Also 500 carcasses seen.
			Mouth	F	0	0	0	1000	0	
			Bay		0	0	0	0	0	
W Side Korovin Bay 282-1105	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, high altitude survey. No fish seen.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions.
			Mouth	G	0	0	0	50	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor conditions, very turbulent. No fish seen.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Korovin Lake 282-1106	8/8/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, high altitude survey. Stream mouth blocked by drift wood. No fish seen in lake.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Good conditions. Creek entrance is blocked with drift wood.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
	8/30/96	JIM COFSKE	Stream	P	0	500	0	0	0	DISTANCE SURVEYED: ENRIRE STREAM. Poor conditions, very turbulent. Sockeye were located in the lake.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
McGinty's Point 283-7003	7/25/96	ROD CAMPBELL	Stream	G	0	0	0	600	0	DISTANCE SURVEYED: ENTIRE STREAM. In lower part of stream.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	7/29/96	JIM COFSKE	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	10800	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, rain, low light.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	7900	500	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. Plus 800 pink carcasses.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	32100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 5,000 pink carcasses.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	
E. of Mino Creek 283-7002	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/1/96	ROD CAMPBELL	Stream	P	0	0	0	1500	0	DISTANCE SURVEYED: ENTIRE STREAM. Arnie's area. South Central District. Fair conditions, very turbulent, high altitude survey. Mouth murky, all fish below fork.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	9000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/8/96	ROD CAMPBELL	Stream	F	0	0	0	8600	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent, rain, low light.
			Mouth	F	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	13300	0	DISTANCE SURVEYED: BELOW FORKS. Turbulent. Plus 500 pink carcasses.
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	57100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Mino Creek 283-7001	7/21/96	ARNIE SHAUL	Stream		0	0	0	19000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus several thousand Dolly Varden.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	7/29/96	JIM COFSKE	Stream	F	0	0	0	17700	0	DISTANCE SURVEYED: ENTIRE STREAM. Flying height was 500' -
			Mouth		0	0	0	0	0	1,000'. Determining species difficult. A - 15,000 fish, B -
			Bay		0	0	0	0	0	turbulent, D - 300 fish, E - 0 fish, F - 1,000 fish.
	8/1/96	BOB BERCELI	Stream	G	0	0 0	1	70000	0	DISTANCE SURVEYED: ENTIRE STREAM. Fish well distributed
			Mouth		0	0	0	0	0	throughout lower to middle section of the system. Didn't
			Bay		0	0	0	0	0	reach end of tributary due to turbulence.
	8/24/96	ROD CAMPBELL	Stream		0	0 0	1	11000	0	DISTANCE SURVEYED: PARTIAL. Very turbulent - survey of "A"
			Mouth		0	0	0	0	0	fork only. Plus 20,000 carcasses.
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	1200 0	2	16300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 50,000 pink
			Mouth	G	0	0	0	0	0	carcasses. 800 sockeye in "C" fork lake, 400 sockeye in "F"
			Bay		0	0	0	0	0	fork lake.
Coal Bay Main Stream 283-6205	7/29/96	JIM COFSKE	Stream	G	0	0	0	7000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth	G	0	0	0	0	0	conditions.
			Bay		0	0	0	0	0	
	8/1/96	BOB BERCELI	Stream	G	0	0	0	48450	0	DISTANCE SURVEYED: ENTIRE STREAM. Good show in lower portion.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	23000	0	DISTANCE SURVEYED: ENTIRE YEAR.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	36000	0	DISTANCE SURVEYED: ENTIRE STREAM. Very turbulent. High
			Mouth	P	0	0	0	0	0	altitude survey. Could not survey other streams in Coal Bay -
			Bay		0	0	0	0	0	plus many carcasses.
	9/1/96	ROD CAMPBELL	Stream	G	0	0 0	1	7700	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus many carcasses.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
Coal Bay unnamed 283-6204	7/29/96	JIM COFSKE	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth	F	0	0	0	0	0	conditions. No fish seen.
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	14000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	28000	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 2,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Coal Bay 6203 283-6203	7/29/96	JIM COFSKE	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	15200	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Coal Bay 6202 283-6202	7/29/96	JIM COFSKE	Stream		0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. No fish seen.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	8300	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 1,000 pink carcasses.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Cape Tolstoi 283-6201	9/1/96	ROD CAMPBELL	Stream	G	0	0	0	11100	0	DISTANCE SURVEYED: ENTIRE STREAM. Plus 500 pink carcasses.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
Settlement Point 283-6316	7/21/96	ARNIE SHAUL	Stream		0	0	0	99000	0	DISTANCE SURVEYED: ENTIRE STREAM. 36,000 above forks
			Mouth		0	0	0	0	0	Didn't survey south fork.
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	G	0	0 0	1	7000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth		0	0	0	0	0	conditions. Difficult to identify fish species.
			Bay		0	0	0	0	0	
	8/1/96	BOB BERCELI	Stream	G	0	0 0	3	74700	0	DISTANCE SURVEYED: ENTIRE STREAM. Many areas black with
			Mouth		0	0	0	0	0	schools of fish.
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0 0	2	51000	0	DISTANCE SURVEYED: PARTIAL. Didn't survey south fork
			Mouth		0	0	0	0	0	141,000 below forks.
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0 0	1	42000	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. High altitude
			Mouth	F	0	0	0	0	0	survey. Plus 30,000+ carcasses.
			Bay		0	0	0	0	0	
	9/1/96	ROD CAMPBELL	Stream	G	0	0 0	2	50000	5000	DISTANCE SURVEYED: ENTIRE STREAM. Chums in lower portion of
			Mouth	G	0	0	0	0	3000	stream near mouth. Balls of pinks still in lower end of
			Bay		0	0	0	0	0	
Middle Creek 283-6315	7/21/96	ARNIE SHAUL	Stream		0	0	0	21000	0	DISTANCE SURVEYED: ENTIRE STREAM. Didn't survey right fork.
			Mouth		0	0	0	20000	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	7/29/96	JIM COFSKE	Stream	G	0	0	0	47500	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth	G	0	0	0	0	0	conditions. Difficult to identify fish species.
			Bay		0	0	0	0	0	
	8/1/96	BOB BERCELI	Stream	G	0	0 0	1	35800	0	DISTANCE SURVEYED: ENTIRE STREAM. Good buildup in lower
			Mouth		0	0	0	0	0	portion of river.
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	50000	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. High altitude
			Mouth	P	0	0	0	0	0	survey. Plus 30,000 carcasses.
			Bay		0	0	0	0	0	
	9/9/96	JIM COFSKE	Stream	F	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Fair conditions due to
			Mouth	F	0	0	0	0	0	dark skies. 30,000 carcasses were also seen.
			Bay		0	0	0	0	0	
Ness Creek 283-6410	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	5300	0	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream	E	0	0	0	3500	0	DISTANCE SURVEYED: ENTIRE STREAM. Additional 1,000 pinks
			Mouth		0	0	0	0	0	along beach.
			Bay		0	0	0	0	0	
Inner Canoe, S Side 283-6409	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	0	2200	DISTANCE SURVEYED: ENTIRE STREAM. Turbulent. Plus 2,000
			Mouth	F	0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
Entrance Creek 283-6408	7/29/96	JIM COFSKE	Stream	F	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy
			Mouth	p	0	0	0	500	0	conditions. Difficult to identify fish species. Part of the
			Bay		0	0	0	0	0	main stream was turbid. No fish seen in left tributary.
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: NO SURVEY. Turbulent
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream	G	0	0	0	12800	400	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Wolverine Gulch 283-6407	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: NO SURVEY - Turbulent.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/27/96	ARNIE SHAUL	Stream	G	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Canoe Bay River 283-6408	7/13/96	ARNIE SHAUL	Stream	G	0	0	0	0	7500	DISTANCE SURVEYED: ENTIRE STREAM. Seals working inner bay,
			Mouth	F	0	0	0	0	0	but was unable to see large concentrations of fish. Jumpers
			Bay	F	0	0	0	0	0	in outer bay.
	7/21/96	ARNIE SHAUL	Stream		0	2500	0	0	16000	DISTANCE SURVEYED: ENTIRE STREAM. Didn't survey inner bay.
			Mouth		0	0	0	0	20000	
			Bay		0	0	0	0	0	
	7/29/96	JIM COFSKE	Stream	G	0	0	0	35000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at 1,000'. Windy Plus
			Mouth	G	0	0	0	4000	0	conditions. Difficult to identify fish species.
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	4000	0	3000	84000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	25000	
			Bay		0	0	0	0	0	
	8/24/96	ROD CAMPBELL	Stream	F	0	0	0	7500	45000	DISTANCE SURVEYED: ENTIRE STREAM. Main stem muddy.
			Mouth	F	0	0	0	0	0	30,000 salmon carcasses.
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: SURVEYED MOUTH ONLY
			Mouth	G	0	0	0	0	800	
			Bay		0	0	0	0	0	
Bluff Point Creek 283-6405	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	4800	500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream	G	0	0	0	6000	6000	DISTANCE SURVEYED: UP TO CANYON. Only surveyed up to canyon
			Mouth	G	0	0	0	0	3000	because of wind. Likely another 6,000 pinks in canyon
			Bay		0	0	0	0	0	
Ruby's Lagoon 283-6313	8/27/96	ARNIE SHAUL	Stream	G	0	200	0	0	3800	DISTANCE SURVEYED: ENTIRE STREAM. 3,000 of the chums were in
			Mouth		0	0	0	0	0	lagoon. Reds schooled in lake.
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	5700	DISTANCE SURVEYED: ENTIRE STREAM. Saw nothing in lagoon,
			Mouth		0	0	0	0	0	poor light.
			Bay		0	0	0	0	0	
Chinaman Lgn North 283-6311	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	0	400	
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Chinaman Lgn Main 283-6310	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	900	DISTANCE SURVEYED: ENTIRE STREAM. Poor light.
			Mouth	F	0	0	0	0	3400	
			Bay		0	0	0	0	0	
Chinaman Lgn Main 283-6309	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM
			Mouth	F	0	0	0	0	0	
			Bay		0	0	0	0	0	
Chinaman Lgn South 283-6306	9/7/96	ARNIE SHAUL	Stream	-						DISTANCE SURVEYED: ? See 63.05
			Mouth	-						
			Bay	-						
Lower Chinaman Lgn 283-6305	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	400	1600	DISTANCE SURVEYED: ENTIRE STREAM. Poor light. INCLUDES
			Mouth	F	0	0	0	0	0	COUNTS FROM 63.05
			Bay		0	0	0	0	0	
Strm S of Chinaman L 283-6304	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	1100	DISTANCE SURVEYED: ENTIRE STREAM. About 10% were carcasses.
			Mouth	P	0	0	0	0	0	Couldn't see in lower end due to a muddy tributary coming off
			Bay		0	0	0	0	0	the slopes of Pavlof Volcano.
Spring Fed Lakes 283-6104	8/5/96	ARNIE SHAUL	Stream	E	0	550	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	F	0	0	0	7700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Long John Lgn, 2 S. 283-6103	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	600	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
SW. Strm, Long J.Lgn 283-6102	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	8000	1300	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	1000	
			Bay		0	0	0	0	0	
Volcano River 284-5208	8/2/96	ARNIE SHAUL	Stream	E	0	0	0	3000	300	DISTANCE SURVEYED: ENTIRE STREAM. Saw nothing at mouth.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	3000	DISTANCE SURVEYED: PARTIAL. Didn't survey left fork.
			Mouth	G	0	0	0	0	6000	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	8000	2000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	2000	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	7000	1000	DISTANCE SURVEYED: ENTIRE STREAM. Saw nothing at mouth, low tide.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	F	0	0	0	9000	17000	DISTANCE SURVEYED: ENTIRE STREAM. Saw no chums at mouth or along beach.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Volcano Sloughs-Ctr 284-5207	8/2/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in stream.
			Mouth		0	0	0	0	5000	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: PARTIAL. Surveyed flats only.
			Mouth	G	0	0	0	0	8000	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	0	400	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	7000	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	200	100	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	E	0	0	0	0	12000	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	7000	5000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	6000	
			Bay		0	0	0	0	0	
West Spring Holes 284-5206	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	1000	1000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	1000	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	3000	DISTANCE SURVEYED: ENTIRE STREAM. 6,000 pinks and chums at mouth.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	4000	2000	DISTANCE SURVEYED: ENTIRE STREAM. 5,000 pinks and chums on flats.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	5000	0	DISTANCE SURVEYED: ENTIRE STREAM. 10,000 pinks and chums at mouth.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	E	0	0	0	20000	5000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	4000	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Stream Guard Creek 284-5205	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	500	500	DISTANCE SURVEYED: EMTIRE STREAM. Saw nothing at mouth.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Stub Creek 284-5204	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	9000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
Little Bear Bay 284-5203	9/7/96	ARNIE SHAUL	Stream	E	0	0	0	5000	200	DISTANCE SURVEYED: ENTIRE STREAM. As many carcasses. Good
			Mouth	G	0	0	0	0	1000	water flow.
			Bay		0	0	0	0	0	
Nikolaski 284-5201	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	600	0	DISTANCE SURVEYED: ENTIRE STREAM. Needs rain.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	2400	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor escapement.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Dolgoi Hbr, NW 284-5103	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	1300	0	DISTANCE SURVEYED: ENTIRE STREAM. An additional 500
			Mouth		0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
Dolgoi Hbr, South 284-5105	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	1600	0	DISTANCE SURVEYED: ENTIRE STREAM. An additionaal 1,00
			Mouth		0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
Dolgoi Hbr, SW 284-5106	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. Very good for this date.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	6500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/8/96	ARNIE SHAUL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. Numerous additiona l
			Mouth	G	0	0	0	2000	0	carcasses. Better conditions than on 8/05 survey.
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	4000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Belkofski Village Cr 284-4101	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	4500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	12000	300	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/8/96	ARNIE SHAUL	Stream	G	0	0	0	9000	0	DISTANCE SURVEYED: LOWER ONE-THIRD ONLY.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	21000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	17200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	10500	400	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Rocky River 284-4212	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	1200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	3500	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	2200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	5000	0	
			Bay		0	0	0	0	0	
	8/8/96	ARNIE SHAUL	Stream	G	0	0	0	3100	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	5000	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	7800	0	DISTANCE SURVEYED: ENTIRE STREAM. Needs rain.
			Mouth	F	0	0	0	6000	0	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	6400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	5300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Kitchen Anchorage 284-4210	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing along beach.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in stream. 5000
			Mouth	G	0	0	0	2000	0	along beaches.
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	E	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. None in stream.
			Mouth	G	0	0	0	8000	0	Additional 10,000 pinks along beach.
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	E	0	0	0	9000	100	DISTANCE SURVEYED: ENTIRE STREAM. An additional 5,000
			Mouth	G	0	0	0	2000	0	carcasses.
			Bay		0	0	0	0	0	
Captain's Harbor 284-4209	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	7000	300	DISTANCE SURVEYED: ENTIRE STREAM. As many carcasses of each
			Mouth	G	0	0	0	0	0	species.
			Bay		0	0	0	0	0	
Belkofski Bay River 284-4207	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	0	4500	DISTANCE SURVEYED: ENTIRE STREAM. Lots of jumpers in side
			Mouth		0	0	0	0	0	closure. 8-10,000 fish in Captain's Harbor.
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	12000	30000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	500	
			Bay		0	0	0	0	0	
Belkofski Bay Beach 284-4206	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	1600	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Belkofski Bay, West 284-4205	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	500	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	9300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	
Indian Head 284-4203	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	1400	0	DISTANCE SURVEYED: ENTIRE STREAM. Additional 4,000 pinks
			Mouth	G	0	0	0	1000	0	along beaches.
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	E	0	0	0	12000	0	DISTANCE SURVEYED: ENTIRE STREAM. An additional 2,000
			Mouth	G	0	0	0	300	0	carcasses.
			Bay		0	0	0	0	0	
Ram's Creek 284-3305	8/12/96	ARNIE SHAUL	Stream	G	0	0	0	5800	0	DISTANCE SURVEYED: ENTIRE STREAM. 800 were above culvert.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	5400	0	DISTANCE SURVEYED: ENTIRE STREAM. 2,300 above culvert, very
			Mouth	G	0	0	0	0	0	few directly below where they were thick on 8/12. Saw none dead.
			Bay		0	0	0	0	0	off mouth, low tide. Good sign near cannery
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	12700	500	DISTANCE SURVEYED: ENTIRE STREAM. 6,700 pinks were above
			Mouth		0	0	0	0	0	culvert.
			Bay		0	0	0	0	0	
Head King Cove Lgn 284-3304	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	1000	1000	DISTANCE SURVEYED: ENTIRE STREAM. At least half were
			Mouth	P	0	0	0	0	4000	Red tide made visibility poor in lagoon.
			Bay		0	0	0	0	0	
W Side King Cove Lgn 284-3303	9/7/96	ARNIE SHAUL	Stream	E	0	0	0	200	400	DISTANCE SURVEYED: ENTIRE STREAM. Red tide made visibility
			Mouth	P	0	0	0	0	1000	poor in lagoon.
			Bay		0	0	0	0	0	
Fox Island Anc. East 284-3101	7/29/96	ARNIE SHAUL	Stream	G	0	0	0	11000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	F	0	0	0	20000	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor light.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	17400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	59000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Fox Island Anc. Ctr. 284-3102	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	1700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	8000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	5000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Fox Island Anc. West 284-3103	7/24/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing in creek.
			Mouth		0	0	0	1000	0	
			Bay		0	0	0	0	0	
	7/29/96	ARNIE SHAUL	Stream	G	0	0	0	11000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	29000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	27500	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	1000	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	65000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	P	0	0	0	0	0	
			Bay		0	0	0	0	0	
Paw Cape (Deer Isl.) 284-3105	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	3300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	2000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	7000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Southern Creek 284-3106	7/21/96	ARNIE SHAUL	Stream		0	0	0	6200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/24/96	ARNIE SHAUL	Stream		0	0	0	11000	0	DISTANCE SURVEYED: ENTIRE STREAM. All in lower half.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/29/96	ARNIE SHAUL	Stream	G	0	0	0	29000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	47000	0	DISTANCE SURVEYED: ENTIRE STREAM. A substantial number in upper end.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	47000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	80000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	70000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Eastern Creek 284-3110	7/21/96	ARNIE SHAUL	Stream		0	0	0	5800	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	2000	0	
			Bay		0	0	0	0	0	
	7/24/96	ARNIE SHAUL	Stream	G	0	0	0	18000	0	DISTANCE SURVEYED: ENTIRE STREAM. At least 90% were in lower half.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/29/96	ARNIE SHAUL	Stream	G	0	0	0	32000	0	DISTANCE SURVEYED: ENTIRE STREAM. Loaded, especially in lower half.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	30000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	0	0	16000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	4000	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Lenard Hbr. South 284-3411	8/12/96	BOB BERCELI	Stream	G	0	0	0	1000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	3000	0	DISTANCE SURVEYED: ENTIRE STREAM. An additional 1,000
			Mouth	G	0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
Delta Crk. Lenard Hb 284-3410	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	3600	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	1800	10200	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: MOUTH ONLY.
			Mouth	E	0	0	0	0	7000	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	8700	14700	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	200	
			Bay		0	0	0	0	0	
Barney's Creek 284-3409	8/2/96	ARNIE SHAUL	Stream	F	0	0	0	11000	0	DISTANCE SURVEYED: ENTIRE STREAM. Poor light.
			Mouth	F	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	2500	0	DISTANCE SURVEYED: ENTIRE STREAM. Better light (and
			Mouth	G	0	0	0	2000	0	airplane) than during previous survey. About 200 yards of
			Bay		0	0	0	0	0	lower part of creek still completely hidden in brush.
	8/12/96	BOB BERCELI	Stream	G	0	0	0	1200	500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	2000	1000	
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	2600	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	10000	3000	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	G	0	0	0	12000	1700	DISTANCE SURVEYED: ENTIRE STREAM. Part of creek back into
			Mouth	G	0	0	0	0	0	old channel. Good water flow.
			Bay		0	0	0	0	0	
Kinzarof Lagoon 284-3407	8/27/96	ARNIE SHAUL	Stream	G	0	210	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Kinzarof Lgn, Middle 284-3406	8/27/96	ARNIE SHAUL	Stream	G	0	100	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Kinzarof Lgn, North 284-3405	8/27/96	ARNIE SHAUL	Stream	G	0	120	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Trout Creek 284-3403	8/12/96	BOB BERCELI	Stream		0	0	0	300	400	DISTANCE SURVEYED: ENTIRE STREAM. Did not survey lake
			Mouth		0	0	0	0	0	systems.
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream	G	0	0	0	0	1000	DISTANCE SURVEYED: ENTIRE STREAM. No reds in lakes.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	BOB BERCELI	Stream	G	0	50	0	0	340	DISTANCE SURVEYED: ENTIRE STREAM. Plus additional 680 chum
			Mouth		0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
	9/11/96	ARNIE SHAUL	Stream	G	0	50	0	0	0	DISTANCE SURVEYED: PARTIAL. North lakes only. Only the
			Mouth		0	0	0	0	0	south lake was surveyed on September 9.
			Bay		0	0	0	0	0	
	10/7/96	ARNIE SHAUL	Stream	G	0	7	1040	50	0	DISTANCE SURVEYED: ENTIRE STREAM. Pinks appear spawned out, 155
			Mouth	G	0	0	0	0	0	coho, 3 reds, and nearly all pinks below road. Saw no coho past
			Bay	G	0	0	0	0	0	second tributary above road. FOOT SURVEY.
Russel Creek 284-3402	7/21/96	ARNIE SHAUL	Stream		0	0	0	8000	15000	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	11000	45000	DISTANCE SURVEYED: ENTIRE STREAM. 9,000 chums above
			Mouth		0	0	0	0	0	hatchery. Pinks and balance of chums below.
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	15800	47300	DISTANCE SURVEYED: ENTIRE STREAM. Large concentrations of
			Mouth	F	0	0	0	500	1000	salmon below the "whirlpool".
			Bay		0	0	0	0	0	
	8/14/96	ARNIE SHAUL	Stream	G	0	0	0	10000	60000	DISTANCE SURVEYED: BELOW HATCHERY ONLY.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/27/96	ARNIE SHAUL	Stream	G	0	200	0	3000	102000	DISTANCE SURVEYED: ENTIRE STREAM. 70,00 chums above hatchery.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/22/96	ARNIE SHAUL	Stream	G	0	0	1000	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	10/7/96	ARNIE SHAUL	Stream	E	0	0	1600	0	0	MOST WERE BETWEEN WARMUP SHACK AND HATCHERY.
			Mouth	E	0	0	0	0	0	
			Bay	E	0	0	0	0	0	
Mortensen Lagoon 284-3401	8/6/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing seen. Algae bloom
			Mouth	F	0	0	0	0	0	on lake.
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	G	0	300	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Plankton bloom in lake.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	800	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	100	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	BOB BERCELI	Stream	P	0	1060	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. All in upper inlet stream.
			Mouth		0	0	0	0	0	Poor visibility in lake due to wind and flat light.
			Bay		0	0	0	0	0	
	9/11/96	ARNIE SHAUL	Stream	G	0	800	0	0	0	DISTANCE SURVEYED: PARTIAL. Visibility too poor in lake.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/22/96	ARNIE SHAUL	Stream	G	0	800	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	10/7/96	ARNIE SHAUL	Stream		0	50	0	0	0	RED'S IN CREEK. SAW NOTHING IN LAKE.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Old Man's Lagoon Str 284-3201	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	0	2700	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/15/96	ARNIE SHAUL	Stream	G	0	0	0	0	3900	DISTANCE SURVEYED: ENTIRE STREAM. Hundreds of additional
			Mouth		0	0	0	0	0	carcasses.
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	500	0	0	100	DISTANCE SURVEYED: ENTIRE STREAM. Was surprised to find
			Mouth		0	0	0	0	0	sockeye.
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/11/96	ARNIE SHAUL	Stream	G	0	900	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. All spawning.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Thin Pt Lgn & Entr. 284-2006	7/18/96	ARNIE SHAUL	Stream		0	700	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/21/96	ARNIE SHAUL	Stream		0	2000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/24/96	ARNIE SHAUL	Stream	F	0	3000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. A few starting to move
			Mouth		0	0	0	0	0	over flats.
			Bay		0	0	0	0	0	
	7/29/96	ARNIE SHAUL	Stream	F	0	6000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/30/96	ARNIE SHAUL	Stream	G	0	6000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	F	0	6000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. A substantial number
			Mouth		0	0	0	0	0	moving over flats.
			Bay		0	0	0	0	0	
	8/15/96	ARNIE SHAUL	Stream	F	0	8000	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Many are fresh.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/24/96	ARNIE SHAUL	Stream	F	0	500	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/28/96	ARNIE SHAUL	Stream	G	0	2000	11000	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/9/96	BOB BERCELI	Stream	P	0	100	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Very poor visibility
			Mouth		0	0	0	0	0	throughout lagoon and outlet channel due to wind and muddy
			Bay		0	0	0	0	0	water. Saw these fish in NE channel and upper lagoon.
	9/11/96	ARNIE SHAUL	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Too murky for count, but
			Mouth		0	0	0	0	0	appears to be lots of coho.
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	9/22/96	ARNIE SHAUL	Stream	G	0	0	4500	0	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
SW Bight Creek 284-2004	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	700	0	DISTANCE SURVEYED: ENTIRE STREAM. Several thousand in sight.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	3600	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/28/96	ARNIE SHAUL	Stream	E	0	0	0	8200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
McGinty's Creek 284-2003	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	13400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/2/96	ARNIE SHAUL	Stream	G	0	0	0	36000	0	DISTANCE SURVEYED: ENTIRE STREAM. Looks good.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	P	0	0	0	7000	0	DISTANCE SURVEYED: ENTIRE STREAM. Flew at high altitude due
			Mouth		0	0	0	0	0	to turbulence. Could only see dark schools of fish.
			Bay		0	0	0	0	0	
	8/28/96	ARNIE SHAUL	Stream	G	0	0	0	12000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	300	0	
			Bay		0	0	0	0	0	
Sandy Cove Stream 284-2001	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	1200	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	400	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	300	7700	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/28/96	ARNIE SHAUL	Stream	E	0	0	0	6500	22000	DISTANCE SURVEYED: ENTIRE STREAM. Good chum escapement.
			Mouth	G	0	0	0	0	500	
			Bay		0	0	0	0	0	
Near Egg Island 284-1101	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	200	100	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date MM-DD-YYYY	Observer	Location	Visibility	Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/12/96	BOB BERCELI	Stream	G	0	0	0	1400	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	1800	400	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Little John Lgn Strm 284-1213	8/12/96	BOB BERCELI	Stream	G	0	0	0	0	5400	DISTANCE SURVEYED: ENTIRE STREAM. System needs rain.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	E	0	0	0	3000	3600	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	4000	
			Bay		0	0	0	0	0	
Little John Lgn SSpt 284-1212	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	0	100	DISTANCE SURVEYED: ENTIRE STREAM. One wolf.
			Mouth	G	0	0	0	0	500	
			Bay		0	0	0	0	0	
Cannery Creek 284-1211	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	1200	300	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Middle Lagoon 284-1205	7/5/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: BELOW WEIR. Excellent conditions. No
			Mouth		0	0	0	0	0	fish. Surveyed below weir.
			Bay		0	0	0	0	0	
	7/13/96	ARNIE SHAUL	Stream	G	0	200	0	0	0	DISTANCE SURVEYED: BELOW WEIR.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/22/96	BOB BERCELI	Stream	F	0	1000	0	0	0	DISTANCE SURVEYED: BELOW WEIR Low tide, all fish in
			Mouth	F	0	0	0	0	0	"pockets" at lower end.
			Bay		0	0	0	0	0	
	7/30/96	ARNIE SHAUL	Stream	G	0	2000	0	0	0	DISTANCE SURVEYED: BELOW WEIR In lower lagoon.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	3000	0	0	0	DISTANCE SURVEYED: BELOW WEIR
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	700	0	0	0	DISTANCE SURVEYED: BELOW WEIR Additional 4,000 sockeye
			Mouth		0	0	0	0	0	behind the weir.
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yyyy	Observer	Location	Visibility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/24/96	ARNIE SHAUL	Stream	G	0	100	0	0	0	DISTANCE SURVEYED: BELOW WEIR.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	9/7/96	ARNIE SHAUL	Stream	F	0	2900	0	0	0	DISTANCE SURVEYED: MORZHOVOI LAKE AND ITS OUTLET ONLY. 500
			Mouth		0	0	0	0	0	spawning in lake outlet, rest in lake.
			Bay		0	0	0	0	0	
	9/22/96	ARNIE SHAUL	Stream	F	0	3900	0	0	0	DISTANCE SURVEYED: MORZHOVOI LAKE AND ITS OUTLET. 200 OF THE
			Mouth		0	0	0	0	0	TOTAL WERE SPAWNING IN OUTLET STREAM.
			Bay		0	0	0	0	0	
	10/7/96	ARNIE SHAUL	Stream	F	0	600	0	0	0	100 of the reds were spawning in outlet stream.
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
Hansen's Creek 284-1201	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	11200	0	DISTANCE SURVEYED: Surveyed below lake.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	1900	0	17000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	4000	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	400	0	32000	0	DISTANCE SURVEYED: ENTIRE STREAM. Good pink escapement.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Deadman's Cove 284-6008	7/24/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: BELOW LAKE 3,000 - 4,000 Dolly
			Mouth		0	0	0	0	0	Varden. Saw no salmon.
			Bay		0	0	0	0	0	
	7/30/96	ARNIE SHAUL	Stream	G	0	200	0	17300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	3000	0	
			Bay		0	0	0	0	0	
	8/3/96	ARNIE SHAUL	Stream	G	0	0	0	56000	0	DISTANCE SURVEYED: BELOW LAKE
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	75000	0	DISTANCE SURVEYED: BELOW LAKE
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	900	0	51000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	

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Stream	Date mm-dd-yy	Observer	Location	Visi-bility	Species Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
Whalebone Bay 284-6007	7/24/96	ARNIE SHAUL	Stream	G	0	700	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. All schooled in lake.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	900	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. 500 reds schooled in lake,
			Mouth		0	0	0	0	0	rest in creek, some spawning. Nothing in outlet.
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	900	0	DISTANCE SURVEYED: OUTLET ONLY.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Sankin Bay Creek 284-6006	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	1300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	5500	500	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	0	500	
			Bay		0	0	0	0	0	
Whirl Point 284-6005	7/30/96	ARNIE SHAUL	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	1500	0	
			Bay		0	0	0	0	0	
	8/5/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Saw nothing in creek.
			Mouth	G	0	0	0	6000	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	9600	0	DISTANCE SURVEYED: ENTIRS STREAM.
			Mouth	G	0	0	0	5000	0	
			Bay		0	0	0	0	0	
Ikatan River 284-6004	8/12/96	BOB BERCELI	Stream	G	0	0	0	2500	0	DISTANCE SURVEYED: CLEAR TRIBUTARY ONLY Most all in lower
			Mouth		0	0	0	0	0	section.
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	15000	1000	DISTANCE SURVEYED: CLEAR TRIBUTARY ONLY.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Swede's Lake 284-6003	7/24/96	ARNIE SHAUL	Stream		0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Saw no salmon.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	7/30/96	ARNIE SHAUL	Stream	G	0	120	0	0	0	DISTACE SURVEYED; ENTIRE STREAM.
			Mouth	G	0	0	0	100	0	
			Bay		0	0	0	0	0	

-Continued-

Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
	8/12/96	BOB BERCELI	Stream		0	500	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Many of the sockeye are still schooled up.
			Mouth		0	0	0	2000	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	280	0	900	0	DISTANCE SURVEYED: ENTIRE STREAM. 200 sockeye schooled.
			Mouth	G	0	0	0	300	0	
			Bay		0	0	0	0	0	
Ikatan Pt Stream 284-6001	7/30/96	ARNIE SHAUL	Stream	F	0	0	0	900	100	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	G	0	0	0	400	0	
			Bay		0	0	0	0	0	
	8/12/96	BOB BERCELI	Stream	G	0	0	0	18000	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
	8/29/96	ARNIE SHAUL	Stream	G	0	0	0	15700	0	DISTANCE SURVEYED: ENTIRE STREAM.
			Mouth	F	0	0	0	0	300	
			Bay		0	0	0	0	0	
Dora Harbor - Left 285-5000	8/29/96	ARNIE SHAUL	Stream					600		
			Mouth							
			Bay							
Otter Cove, West 285-4009	7/30/96	ARNIE SHAUL	Stream	G				600	0	DISTANCE SURVEYED: ENTIRE
			Mouth	F				200		
			Bay							
	8/12/96	BOB BERCELI	Stream	G				4100	0	DISTANCE SURVEYED: ENTIRE. FISH JUST ENTERING STREAM
			Mouth	F						
			Bay							
	8/29/96	ARNIE SHAUL	Stream	G				11000	0	DISTANCE SURVEYED: ENTIRE
			Mouth	F						
			Bay							
Otter Cove, East 285-4008	7/30/96	ARNIE SHAUL	Stream	G				0	300	DISTANCE SURVEYED: ENTIRE
			Mouth	F						
			Bay							
	8/12/96	BOB BERCELI	Stream	G				5200	0	DISTANCE SURVEYED: ENTIRE MOST IN LOWER SECTION
			Mouth	F				1000		
			Bay							
	8/29/96	ARNIE SHAUL	Stream	G				6000	200	DISTANCE SURVEYED: ENTIRE
			Mouth	F						
			Bay							

-Continued-

Stream	Date mm-dd-yyyy	Observer	Location	Visi-bility	Species: Chinook	Sockeye	Coho	Pink	Chum	Observer Remarks
W Sanak Isl. Trinity 285-1007	8/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Washwoman Crk. 285-1008	8/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Dodd's Bay, East 285-1005	8/7/96	ARNIE SHAUL	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Nothing.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Sandy Bay 285-1009	8/7/96	ARNIE SHAUL	Stream	G	0	50	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. In outlet.
			Mouth		0	0	0	0	0	
			Bay		0	0	0	0	0	
Salmon Bay 285-1010	8/7/96	ARNIE SHAUL	Stream	F	0	200	0	0	0	DISTANCE SURVEYED: ENTIRE STREAM. Visibility good in outlet,
			Mouth		0	0	0	0	0	poor in most of lake, count low.
			Bay		0	0	0	0	0	

Appendix F.2. Method for calculating indexed total escapement.

The basic methods for calculating estimated indexed total escapements without the use of a weir or tower are as follows:

Chinook, Sockeye, Coho: These species tend to have a much longer stream life than pink and chum salmon. Therefore, the indexed total escapement is usually the peak escapement count, including carcasses. However, it is recognized that there are problems in large systems such as Ilnik and Caribou-David's Rivers. The major problem surveying large systems is the additional time, expense, and fuel needed to complete a thorough survey without adversely affecting other projects.

The Caribou and David's River complex (including Coastal and other nearby lakes) is so massive a system for the size of its runs that complete surveys will probably never by done.

At Thin Point Lagoon and Lake, a weir is used to monitor the early portion of the run. In absence of the weir, estimates of sockeye in the lagoon are added together based on estimated time in lagoon, condition, and observations of when sockeye start to move from the lagoon to the lake.

In Morzhovoi (Middle Lagoon), Bluebill, Outer Marker, and Mortensen's Lagoon systems the escapement is estimated by adding estimates of spawning sockeye, about two weeks apart, together.

Pink and Chum Salmon: An approximate 21-day stream life is used to calculate total pink and chum escapements. Fish in saltwater during the final survey are added:

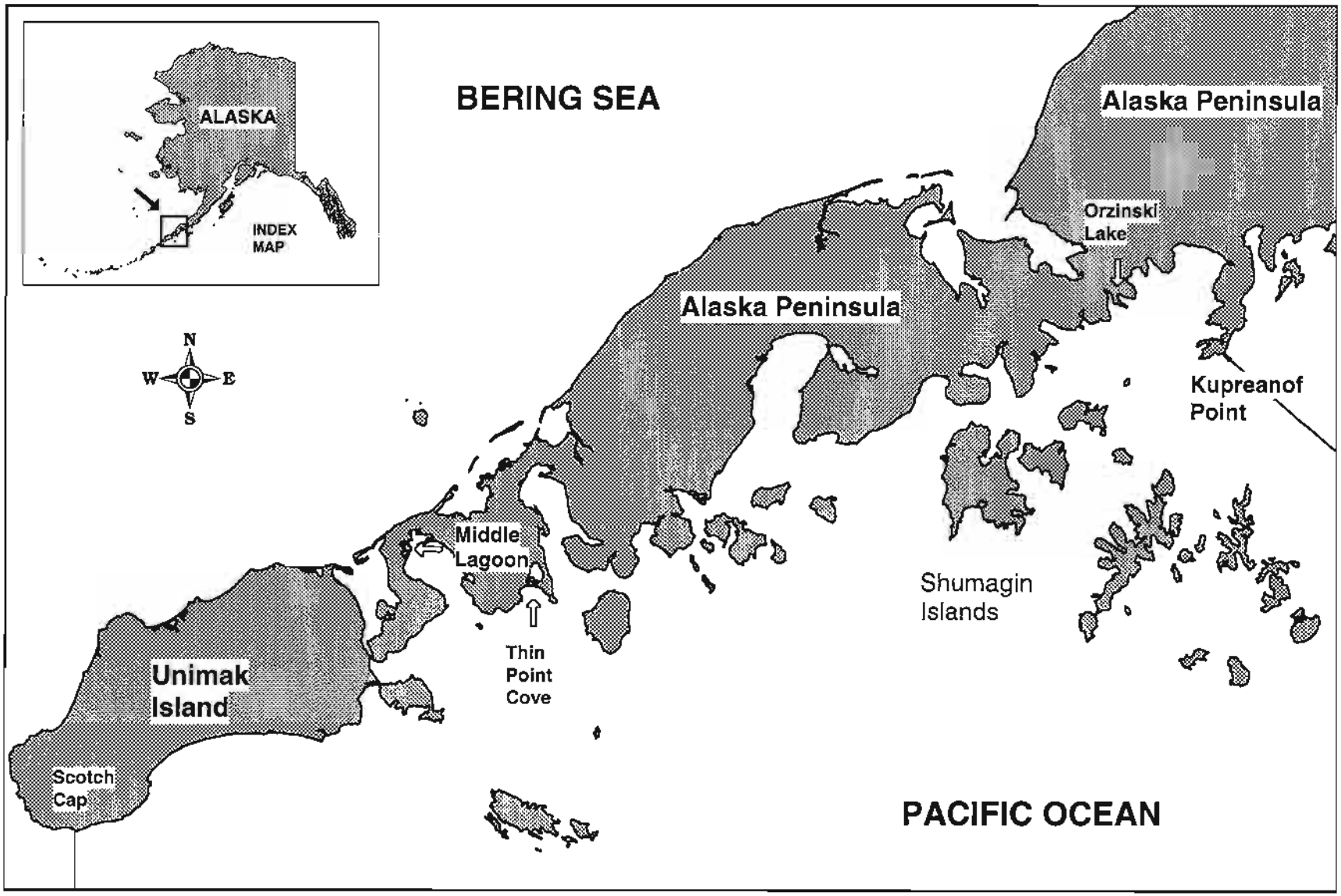
EXAMPLE

Survey Date	Pink	Chum	Fish at Mouth	
July 10	5,000	0	5,000	P
July 17	25,000	0	10,000	P
August 1	100,000	0	10,000	P
August 15	150,000	0	12,000	P
			1,000	CH
September 1	150,000	5,000	2,000	CH
Estimated Total	255,000	7,000		

-Continued-

The estimate of 21 days stream life was used because significant numbers of carcasses seem to appear about three weeks after adult pinks and chums first appear in Alaska Peninsula streams. It is recognized that stream life can vary, however this method is easily duplicated and is comparable from year to year. Variation in stream life is likely a much smaller factor than variation between observers.

With the exception of several small streams, there are no problems of streams being obscured by brush or trees in the Alaska Peninsula and Aleutian Islands Areas. With several exceptions, visibility of spawning grounds is outstanding during periods of normal water flow and clear weather.



Appendix F.3. Map of the Alaska Peninsula with the location of remote field camps illustrated.

Appendix F.4. South Peninsula total indexed salmon escapements by species and year, 1962-96.

Year	Sockeye	Coho	Pink	Chum	Total
1962	18,800		1,598,800	399,400	2,017,000
1963	23,000		1,317,900	446,700	1,787,600
1964	15,700		1,436,400	454,800	1,906,900
1965	12,100		1,035,400	228,000	1,275,500
1966	17,000		719,400	422,000	1,158,400
1967	16,200		445,500	182,900	644,600
1968	12,800		823,300	279,100	1,115,200
1969	29,500		2,474,900	134,600	2,639,000
1970	16,500		1,298,900	280,500	1,595,900
1971	19,400		702,700	343,200	1,065,300
1972	11,900		111,400	254,500	377,800
1973	7,300		110,800	212,500	330,600
1974	95,600		284,400	257,300	637,300
1975	51,700		552,100	193,300	797,100
1976	69,700		1,456,400	327,200	1,853,300
1977	64,900		2,677,800	774,900	3,517,600
1978	64,800		2,858,700	600,500	3,524,000
1979	53,300		2,629,500	411,100	3,093,900
1980	45,900		2,641,600	362,400	3,049,900
1981	45,700		2,307,500	381,300	2,734,500
1982	39,200		2,293,000	386,900	2,719,100
1983	59,200		851,200	446,500	1,356,900
1984	54,800		3,811,600	699,700	4,566,100
1985	49,900		1,614,100	503,500	2,167,500
1986	48,000		1,716,700	544,600	2,309,300
1987	44,600		1,540,500	620,700	2,205,800
1988	74,100		2,839,600	496,400	3,410,100
1989	78,100		1,870,900	310,500	2,259,500
1990[a]	95,300	87,500	1,598,400	354,700	2,048,400
1991	124,900		2,946,800	587,600	3,659,300
1992	97,600		2,834,400	335,500	3,267,500
1993	100,341		2,990,140	397,030	3,487,511
1994	120,255		3,071,725	579,100	3,771,080
1995	129,110		6,406,300	726,400	7,261,810
1996	72,950		3,647,550	610,300	4,330,800
Average 1962-76[b]	27,813		957,887	294,400	1,280,100
Average 1977-95[b]	73,158		2,605,288	501,017	3,179,463

-Continued-

[a] In 1990, excellent survey conditions and a generous budget allowed coho surveys during mid and late September. The 1990 coho numbers are not included in the total escapement.

[b] The averages used in this table reflect the transition from years of low production (1962-76) to the most recent production trends (post 1976).

Appendix F.5. Escapement summary for systems with fish weirs in the South Peninsula area, 1996.

	Dates		Salmon Species Enumerated				
Weir Locations	Installed	Removed	Sockeye	Coho	Pink	Chum	Total
1. Orzinski	7-Jun	28-Jul	23,744	0	46	2	23,792
2. Thin Point	17-Jul	17-Aug	3,101	1	0	0	3,102
3. Middle Lagoon	9-Jul	17-Aug	10,123	0	22	0	10,145
Totals			36,968	1	68	2	37,039

Appendix F.6. Sockeye salmon daily and cumulative escapement counts through the Orzinski Lake weir, 1996.

	Daily			Cumulative		
Date	Adults	Jacks	Total	Adults	Jacks	Total
8-Jun	0	0	0	0	0	0
9-Jun	0	0	0	0	0	0
10-Jun	0	0	0	0	0	0
11-Jun	0	0	0	0	0	0
12-Jun	3	0	3	3	0	3
13-Jun	0	0	0	3	0	3
14-Jun	1	0	1	4	0	4
15-Jun	8	0	8	12	0	12
16-Jun	0	0	0	12	0	12
17-Jun	0	0	0	12	0	12
18-Jun	0	0	0	12	0	12
19-Jun	0	0	0	12	0	12
20-Jun	2	0	2	14	0	14
21-Jun	3	0	3	17	0	17
22-Jun	0	0	0	17	0	17
23-Jun	18	2	20	35	2	37
24-Jun	0	0	0	35	2	37
25-Jun	125	6	131	160	8	168
26-Jun	568	25	593	728	33	761
27-Jun	536	45	581	1,264	78	1,342
28-Jun	204	14	218	1,468	92	1,560
29-Jun	171	7	178	1,639	99	1,738
30-Jun	578	50	628	2,217	149	2,366
1-Jul	2,884	101	2,985	5,101	250	5,351
2-Jul	962	58	1,020	6,063	308	6,371
3-Jul	3,071	178	3,249	9,134	486	9,620
4-Jul	2,824	341	3,165	11,958	827	12,785
5-Jul	226	56	282	12,184	883	13,067
6-Jul	309	116	425	12,493	999	13,492
7-Jul	151	54	205	12,644	1,053	13,697
8-Jul	196	60	256	12,840	1,113	13,953
9-Jul	477	140	617	13,317	1,253	14,570
10-Jul	502	135	637	13,819	1,388	15,207
11-Jul	951	216	1,167	14,770	1,604	16,374
12-Jul	157	37	194	14,927	1,641	16,568
13-Jul	176	39	215	15,103	1,680	16,783

-Continued-

Appendix F.6. (page 2 of 2)

	Daily			Cumulative		
Date	Adults	Jacks	Total	Adults	Jacks	Total
14-Jul	244	89	333	15,347	1,769	17,116
15-Jul	80	51	131	15,427	1,820	17,247
16-Jul	237	106	343	15,664	1,926	17,590
17-Jul	437	423	860	16,101	2,349	18,450
18-Jul	479	241	720	16,580	2,590	19,170
19-Jul	585	104	689	17,165	2,694	19,859
20-Jul	1,450	387	1,837	18,615	3,081	21,696
21-Jul	368	143	511	18,983	3,224	22,207
22-Jul	63	32	95	19,046	3,256	22,302
23-Jul	62	15	77	19,108	3,271	22,379
24-Jul	242	70	312	19,350	3,341	22,691
25-Jul	252	53	305	19,602	3,394	22,996
26-Jul	19	5	24	19,621	3,399	23,020
27-Jul	146	65	211	19,767	3,464	23,231
28-Jul	453	60	513	20,220	3,524	23,744
Post July 28[a]				5,330	926	6,256
Totals				25,550	4,450	30,000

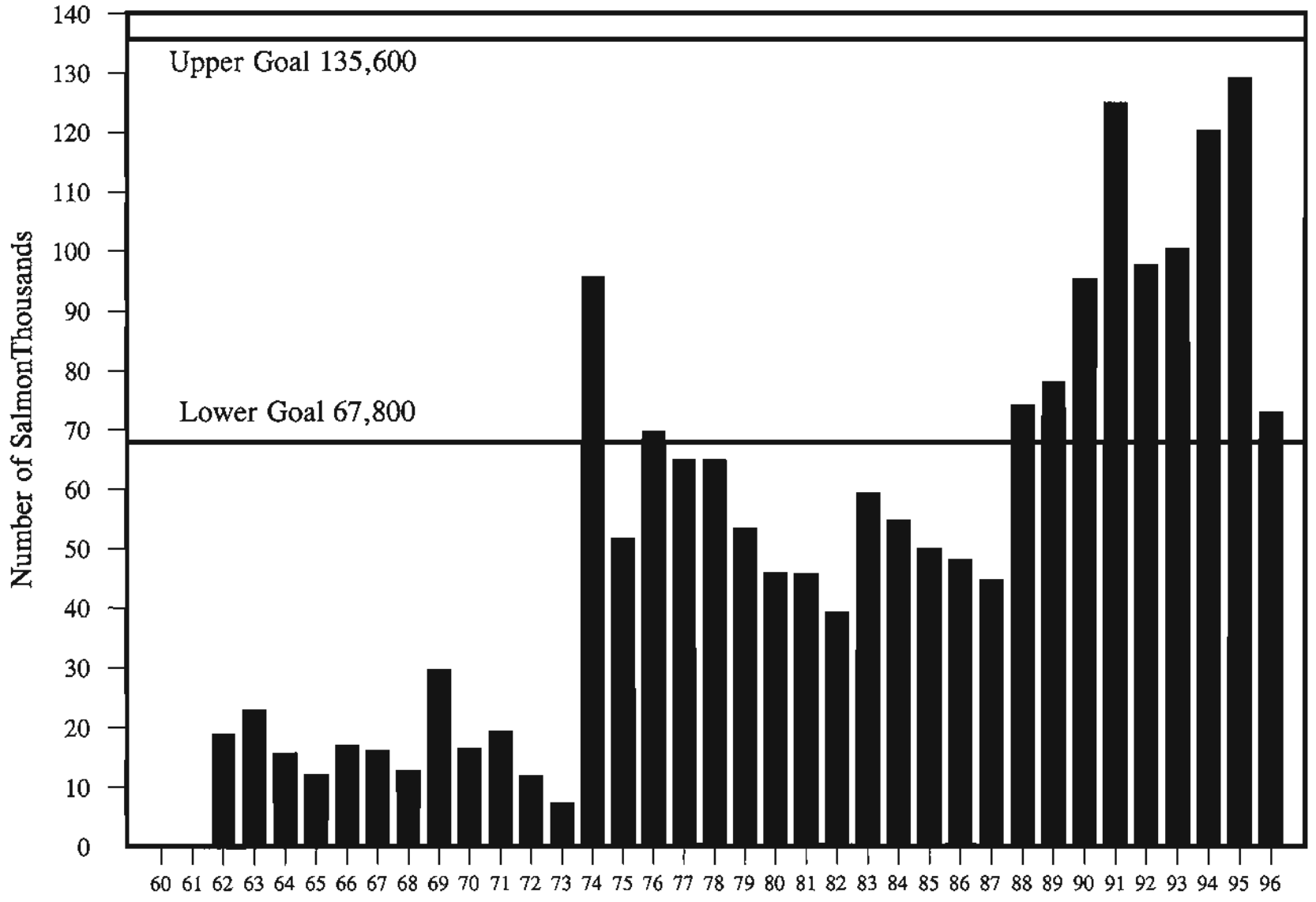
[a] July 28 was the last day fish were counted through the Orzinski Lake weir. Post July 28 escapement was based on aerial surveys.

Appendix F.7. Sockeye salmon daily and cumulative escapement counts through the Thin Point Lake weir, 1996.

	Daily			Cumulative			Daily Percent		Cumulative Percent		
Date	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
July 16 to											
23	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
24	46	0	46	46	0	46	100.0	0.0	1.5	0.0	1.5
25	12	1	13	58	1	59	92.3	7.7	1.9	0.0	1.9
26	1	0	1	59	1	60	100.0	0.0	1.9	0.0	1.9
27	1	0	1	60	1	61	100.0	0.0	1.9	0.0	2.0
28	114	27	141	174	28	202	80.9	19.1	5.6	0.9	6.5
29	286	6	292	460	34	494	97.9	2.1	14.8	1.1	15.9
30	556	65	621	1,016	99	1,115	89.5	10.5	32.8	3.2	36.0
31	77	2	79	1,093	101	1,194	97.5	2.5	35.2	3.3	38.5
Aug. 1	8	0	8	1,101	101	1,202	100.0	0.0	35.5	3.3	38.8
2	75	10	85	1,176	111	1,287	88.2	11.8	37.9	3.6	41.5
3	15	1	16	1,191	112	1,303	93.8	6.3	38.4	3.6	42.0
4	48	1	49	1,239	113	1,352	98.0	2.0	40.0	3.6	43.6
5	23	1	24	1,262	114	1,376	95.8	4.2	40.7	3.7	44.4
6	17	0	17	1,279	114	1,393	100.0	0.0	41.2	3.7	44.9
7	14	2	16	1,293	116	1,409	87.5	12.5	41.7	3.7	45.4
8	201	14	215	1,494	130	1,624	93.5	6.5	48.2	4.2	52.4
9	439	32	471	1,933	162	2,095	93.2	6.8	62.3	5.2	67.6
10	36	24	60	1,969	186	2,155	60.0	40.0	63.5	6.0	69.5
11	4	2	6	1,973	188	2,161	66.7	33.3	63.6	6.1	69.7
12	0	0	0	1,973	188	2,161	0.0	0.0	63.6	6.1	69.7
13	157	54	211	2,130	242	2,372	74.4	25.6	68.7	7.8	76.5
14	251	10	261	2,381	252	2,633	96.2	3.8	76.8	8.1	84.9
15	393	22	415	2,774	274	3,048	94.7	5.3	89.5	8.8	98.3
16	50	3	53	2,824	277	3,101	94.3	5.7	91.1	8.9	100.0
17	0	0	0	2,824	277	3,101	0.0	0.0	91.1	8.9	100.0
Total	2,824	277	3,101								
Post Weir Escapement						5,899					
Total						9,000					

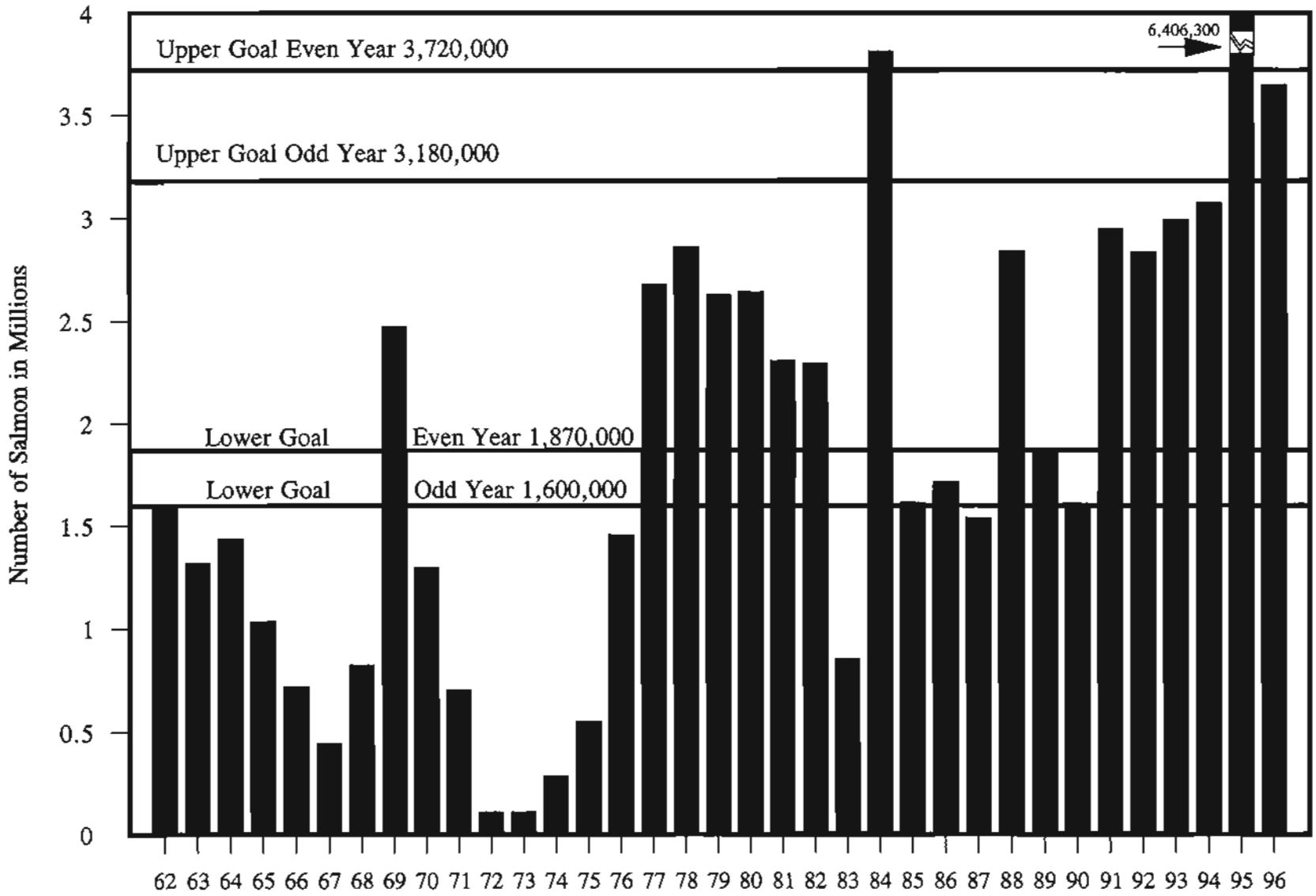
Appendix F.8. Sockeye salmon daily and cumulative escapement counts through the Middle Lagoon weir, 1996.

	Daily			Cumulative			Daily Percent		Cumulative Percent		
Date	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
July 9 to											
19	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
20	11	0	11	11	0	11	100.0	0.0	0.1	0.0	0.1
21	2	0	2	13	0	13	100.0	0.0	0.1	0.0	0.1
22	0	0	0	13	0	13	0.0	0.0	0.1	0.0	0.1
23	71	3	74	84	3	87	95.9	4.1	0.8	0.0	0.9
24	299	36	335	383	39	422	89.3	10.7	3.8	0.4	4.2
25	224	11	235	607	50	657	95.3	4.7	6.0	0.5	6.5
26	184	8	192	791	58	849	95.8	4.2	7.8	0.6	8.4
27	202	13	215	993	71	1,064	94.0	6.0	9.8	0.7	10.5
28	165	3	168	1,158	74	1,232	98.2	1.8	11.4	0.7	12.2
29	50	1	51	1,208	75	1,283	98.0	2.0	11.9	0.7	12.7
30	9	0	9	1,217	75	1,292	100.0	0.0	12.0	0.7	12.8
31	1,880	82	1,962	3,097	157	3,254	95.8	4.2	30.6	1.6	32.1
Aug 1	262	19	281	3,359	176	3,535	93.2	6.8	33.2	1.7	34.9
2	10	2	12	3,369	178	3,547	83.3	16.7	33.3	1.8	35.0
3	32	2	34	3,401	180	3,581	94.1	5.9	33.6	1.8	35.4
4	239	20	259	3,640	200	3,840	92.3	7.7	36.0	2.0	37.9
5	147	13	160	3,787	213	4,000	91.9	8.1	37.4	2.1	39.5
6	221	27	248	4,008	240	4,248	89.1	10.9	39.6	2.4	42.0
7	368	34	402	4,376	274	4,650	91.5	8.5	43.2	2.7	45.9
8	414	37	451	4,790	311	5,101	91.8	8.2	47.3	3.1	50.4
9	262	23	285	5,052	334	5,386	91.9	8.1	49.9	3.3	53.2
10	230	16	246	5,282	350	5,632	93.5	6.5	52.2	3.5	55.6
11	223	10	233	5,505	360	5,865	95.7	4.3	54.4	3.6	57.9
12	208	25	233	5,713	385	6,098	89.3	10.7	56.4	3.8	60.2
13	551	51	602	6,264	436	6,700	91.5	8.5	61.9	4.3	66.2
14	662	63	725	6,926	499	7,425	91.3	8.7	68.4	4.9	73.3
15	569	48	617	7,495	547	8,042	92.2	7.8	74.0	5.4	79.4
16	315	44	359	7,810	591	8,401	87.7	12.3	77.2	5.8	83.0
17	511	83	594	8,321	674	8,995	86.0	14.0	82.2	6.7	88.9
18	677	66	743	8,998	740	9,738	91.1	8.9	88.9	7.3	96.2
19	346	39	385	9,344	779	10,123	89.9	10.1	92.3	7.7	100.0
Total	9,344	779	10,123								
Post Weir Escapement						1,477					
Total						11,600					



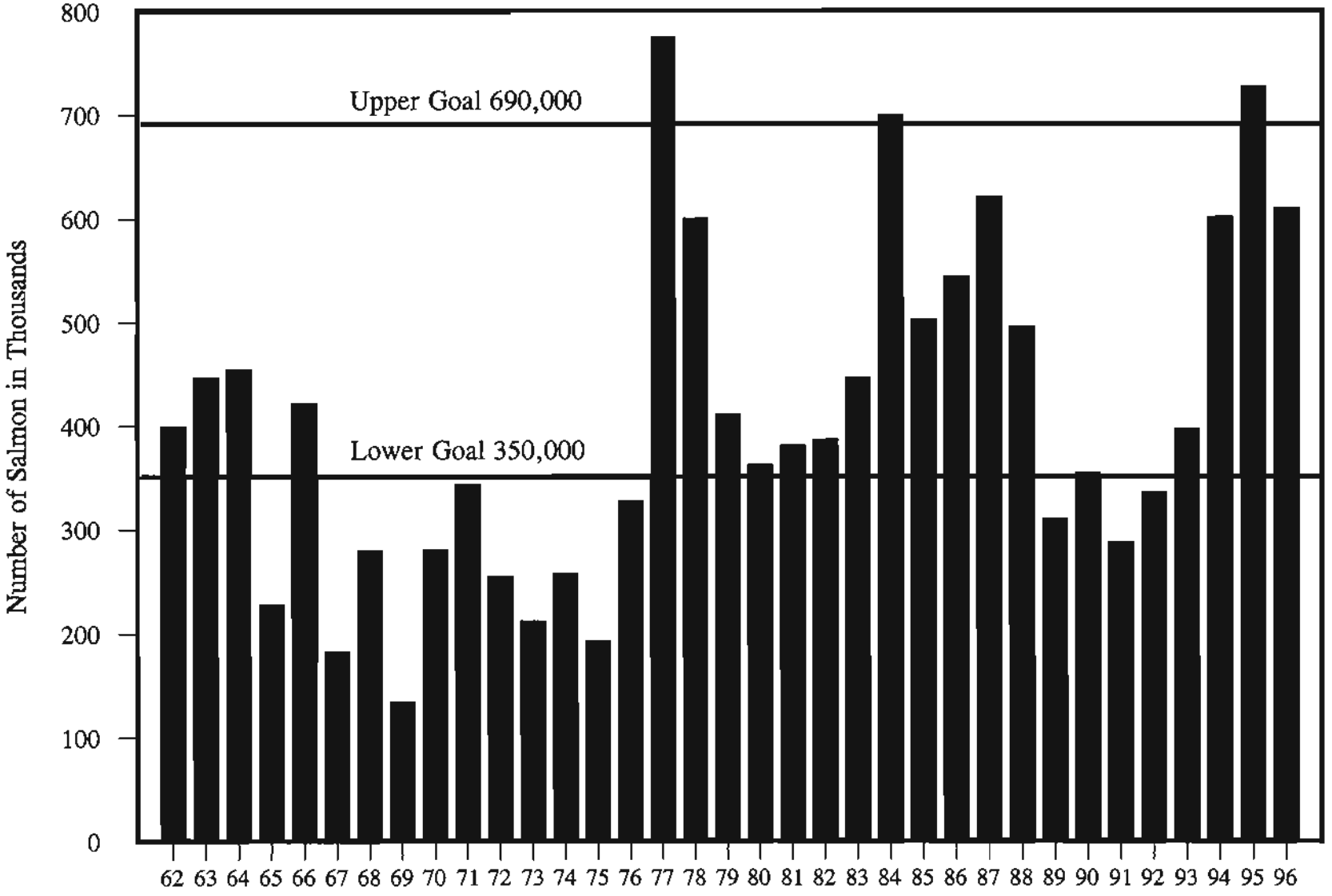
Appendix F.9. South Peninsula total indexed sockeye salmon escapement by year, 1962-96.

P94-REDSESCA
2/7/97



Appendix F.10. South Peninsula total indexed pink salmon escapement by year, 1962-96.

p94-pinkesca
2/7/97



Appendix F.11. South Peninsula total indexed chum escapement by year, 1962-96.

p94-chumesca
2/7/97

Appendix F.12. South Peninsula total indexed salmon escapements by species and districts, 1996[a].

District	Sockeye	Pink	Chum	Total
Southeastern	34,700	1,070,550	133,600	1,238,850
South Central	5,750	1,598,400	173,800	1,777,950
Southwestern	29,690	954,600	302,100	1,286,390
Unimak	2,810	24,000	800	27,610
Totals	72,950	3,647,550	610,300	4,330,800

[a] No escapement data is available for coho salmon.

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