

SOUTH PENINSULA ANNUAL SALMON MANAGEMENT REPORT, 1997

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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, including Sanak Island (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 (SEDM), consisting of the waters of Stepovak, Balboa, and Beaver Bays.

There are two Alaska Department of Fish and Game (ADF&G) 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). Most Area M CFEC salmon permits were utilized in the South Peninsula during 1997; 82 of 122 available purse seine permits recorded landings, as did 147 of 164 drift gillnet permits and 82 of 114 set gillnet permits (Appendix A.7).

From 1988-97, about 95% of the purse seine and set gillnet permit holders fished South Peninsula waters throughout the season, while about 90% of the drift gillnet permit holders fished South Unimak waters during June and North Peninsula waters from July into September (Murphy et al. 1997). In South Peninsula waters, drift gillnet gear, by regulation, 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. Computerized fish ticket runs date back to 1970.

South Unimak and Shumagin Islands June Fisheries

Introduction

The South Unimak and Shumagin Islands June fisheries first documented harvests occurred in 1911 (Appendices 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 1960s, the South Unimak and Shumagin Islands fisheries were open to commercial salmon fishing five days per week (Appendix B.3). During the late 1960s to early 1970s, 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 1970s.

Regulatory History

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, the South Unimak and Shumagin Islands fisheries were closed during June. In 1975, 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 GHL was apportioned to discrete time periods based on historical catch data. The distribution of the allocation by time period and percent was as follows:

<u>Time Periods</u>	<u>South Unimak</u>	<u>Shumagin Islands</u>
June 1 - 11	5%	9%
12 - 18	29%	28%
19 - 25	51%	41%
<u>26 - 30</u>	<u>15%</u>	<u>22%</u>
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 the 1986 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 or chum cap (i.e., after 400,000 chum salmon were harvested the fishery would close; Shaul and Schwarz 1989).

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. The 1988 South Unimak sockeye salmon harvest of 474,457 fish was only about 38% of the GHL. In 1988, the Shumagin Islands fishery harvested its sockeye allocation.

In 1989, South Peninsula fishers exceeded the June sockeye allocation (Shaul et al. 1990). However, this was due to a low Bristol Bay forecast, which produced smaller South Unimak and Shumagin Islands allocations, and an unexpectedly strong Bristol Bay inshore sockeye salmon run (Appendices B.7-B.9).

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.

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

If catches in either fishery fell 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 could be harvested during the June 19-25 period. The June 26-30 period could not be used to make up for underharvests during the first two periods. The best available data indicated that the sockeye salmon stock composition in the June 13-18 and June 19-25 periods was very similar, however the June 26-30 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 a high sockeye to chum salmon ratio is expected in the 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).

Before the June 11 regulated opening date, test fishing occurs to determine the most favorable periods of sockeye to chum salmon ratios. The ADF&G test fishing program was standardized to include only full size purse seine gear making a minimum of one 20 minute set each 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 requested to participate in the test fishery.

The 1990 South Unimak sockeye salmon harvest of 1,090,710 fish was slightly above the GHF of 1,087,000 sockeye salmon (Appendix B.8). The Shumagin Islands June sockeye salmon harvest of 255,585 fish exceeded the 240,000 allocation (Appendix B.9). The combined South Unimak and Shumagin Islands June fisheries sockeye salmon GHF of 1,327,000 fish was achieved (actual harvest of 1,346,295 fish; Appendix B.7) in spite of inclement weather that plagued fishing operations (Shaul et al. 1991). The combined South Unimak and Shumagin Islands June fisheries chum salmon harvest of 518,739 fish was below the 600,000 chum salmon cap (Appendix B.4).

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). 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 of 772,705 salmon exceeded the 600,000 chum salmon cap and by regulation both fisheries were 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 by closing the waters around Sanak Island to commercial salmon fishing during June (Appendix B.2; Shaul et al. 1993). Historically, Sanak Island waters had been fished sporadically, but produced unacceptably low sockeye to chum salmon ratios.

In 1992, the South Unimak and Shumagin Islands fisheries total June sockeye catch of 2,457,856 salmon exceeded the combined June allocation of 2,391,000 fish and both fisheries were closed.

The combined chum harvest was 426,203 salmon, well below the 700,000 chum cap (Appendix B.4).

In 1993, the South Unimak and Shumagin Islands fisheries combined harvest 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 and Shumagin Islands fisheries combined harvest was 1,461,263 sockeye and 582,165 chum salmon, which is 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 BOF 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 GHL 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 BOF 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 BOF eliminated the provision for the fisheries to continue into early July if weather prevented fishing at the end of June.

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

In 1995, the South Unimak and Shumagin Islands combined harvest 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, for the second consecutive year, because sockeye salmon were not available in large numbers in either fishery.

In 1996, the sockeye salmon harvest rates were extremely low in both the South Unimak and Shumagin Islands fisheries and almost continuous fishing was allowed. The combined South Unimak and Shumagin Islands harvest was 1,028,970 sockeye and 359,820 chum salmon; 1,535,030 sockeye less than the GHL (2,564,000) and 340,180 chum less than the 700,000 cap.

The sockeye salmon GHL was not achieved for the third straight year, because sockeye salmon were not available in large numbers in either fishery.

1997 Season Summary

Based on the Bristol Bay forecast, the 1997 South Unimak and Shumagin Islands sockeye salmon guideline harvest levels were as follows (Beverly Cross, ADF&G Anchorage, personal communication):

June Fishery		
<u>South Unimak</u>	<u>Shumagin Islands</u>	<u>Total</u>
1,840,000	406,000	2,246,000

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. On June 12, the South Unimak overall test fishing ratio was 1.9 to 1.0 sockeye per chum salmon, and a fishing period was announced for June 13 at South Unimak (Appendix B.12). Test fishing in the Shumagin Islands on June 11 resulted in a 2.3 to 1.0 sockeye to chum salmon ratio and a fishing period was announced for June 12 (Appendix B.13). However, no significant fishing effort occurred in the Shumagin Islands fishery until June 18 due to a price dispute.

During 1997, sockeye salmon harvest rates were low in both the South Unimak and Shumagin Islands fisheries (Appendix B.14). At the South Unimak fishery, despite continuous fishing from June 13 through June 30, only 1,179,179 sockeye (64.1 % of the allocation) and 196,016 chum salmon were harvested (Appendix B.15). During the 1997 South Unimak June fishery, purse seine gear harvested 174,536 sockeye and 58,999 chum salmon (Appendix B.16). Drift gillnet gear harvested 896,638 sockeye and 127,646 chum salmon (Appendix B.17), and set gillnet gear harvested 108,005 sockeye and 9,371 chum salmon (Appendix B.18).

In the Shumagin Islands Section, 449,002 sockeye (110.6% of the allocation) were harvested (Appendix B.19). During the 1997 Shumagin Islands June fishery, purse seine gear harvested 338,803 sockeye and 118,418 chum salmon (Appendix B.20), while set gillnet gear harvested 110,199 sockeye and 7,891 chum salmon (Appendix B.21).

Purse seine gear harvested 14.8% of the sockeye and 30.1% of the chum salmon at South Unimak, and 75.5% of the sockeye and 93.8% of the chum salmon in the Shumagin Islands Section (Appendix B.22). Drift gillnet gear harvested 76.0% of the sockeye and 65.1% of the chum salmon at South Unimak. Set gillnet gear harvested 9.2% of the sockeye and 4.8% of the chum salmon at South Unimak, and 24.5% of the sockeye and 6.2% of the chum salmon in the Shumagin Islands. For both fisheries combined, purse seine gear harvested 31.5% of the sockeye (513,339 fish; Appendices B.23 and B.24), and 55.0% (177,417 fish) of the chum salmon (Appendices B.25 and B.26).

The sockeye to chum salmon harvest ratio at South Unimak during June, was 6.02 to 1.0. In the Shumagin Islands Section the ratio was 3.55 to 1.0. The overall ratio for both fisheries combined, was 5.05 to 1.0 (Appendix B.27). In the South Unimak fishery, the sockeye to chum salmon ratio was 3.0:1.0 for purse seine, 7.0:1.0 for drift gillnet, and 11.5:1.0 for set gillnet gear (Appendix B.28). In the Shumagin Islands fishery, the sockeye to chum salmon ratio was 2.9:1.0 for purse seine, and 14.0:1.0 for set gillnet gear. During June, 81 purse seine, 142 drift gillnet, and 69 set gillnet permit holders fished commercially for salmon in the South Unimak and Shumagin Islands fisheries (Appendix B.29).

The 1997 South Unimak and Shumagin Islands total June sockeye harvest was 1,628,181 salmon (72.5 % of the allocation). For the last four years, the combined GHL has not been achieved because sockeye salmon were not available in large numbers in either fishery. The 1997 South Unimak and Shumagin Islands combined June chum harvest was 322,325 salmon (196,016 at South Unimak and 126,309 in the Shumagin Islands Section), 377,675 fish below the 700,000 chum salmon cap.

South Peninsula Post June Fisheries

Introduction

Until 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 primarily on pink salmon, and in some areas on chum 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.

Regulatory History

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 included 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 reinstated the Post June Salmon Management Plan which has been fully implemented during the 1993 through 1997 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).

The department 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 in some years. 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).

1997 Season Summary

The 1997 South Peninsula post June pink salmon harvest was projected to be 7.0 million salmon (Shaul and Campbell 1997). 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 17 chinook, 12,181 sockeye, 65 coho, 307 pink, and 1,076 chum salmon (Campbell 1997a). The 1997 South Peninsula July 1-19 salmon harvest was well below both the 1978-92 and 1993-97 average harvest for all species.

In 1997, ADF&G 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) and the fishery opened on July 20. However, commercial fishing effort was very limited from July 26 through August 13 due to a price dispute between fishers and processors.

The Southeastern District was closed to commercial salmon fishing before the price dispute was resolved, because of low pink salmon escapements, and remained closed through August except for an August 15-16 fishing period in Beaver and Balboa Bays. Results from ADF&G test fish vessels also indicated weak pink salmon run strength in early August. The price dispute was settled on August 13, but in many cases product quality had deteriorated by then, markets were limited, and escapement in some streams were larger than needed.

The 1997 South Peninsula July 20-August 31 commercial salmon harvest, minus the SEDM harvest, was 1,037 chinook, 195,072 sockeye, 68,188 coho, 1,612,500 pink, and 261,182 chum salmon (Campbell 1997a).. The 1997 harvest was well below both the 1978-92 and 1993-97 average harvests for chinook, coho, pink, and chum salmon, and below the 1993-97 average harvest for sockeye salmon.

The fall fishery opens on September 1, and commercial salmon fishing periods are based primarily on local coho catch per unit effort (CPUE) and in some areas on late chum runs. The entire 1997 South Peninsula commercial salmon harvest, including the SEDM fishery, from September 1 through the end of the fishing season was 123,209 salmon composed of 30 chinook, 76,965 sockeye, 36,447 coho, 3,568 pink, and 6,199 chum salmon (Campbell 1997a). The 1988-97 average harvest of 110,885 salmon is composed of 17 chinook, 41,567 sockeye, 26,378 coho, 7,090 pink, and 35,833 chum salmon.

Effort Levels. The number of active CFEC permits in the South Peninsula post June fishery more than doubled between 1978 and 1989 (Appendix C.5). The number of permits fished has steadily declined since the peak year of 1989 when 274 permits were utilized. The number of purse seine permits fished peaked in 1979 (120) while drift gillnet and set gillnet use peaked in 1989 (81) and 1990 (80), respectively (Appendices C.6-C.8). During the last five years (1993-97), the number of

active purse seine permits has declined, drift gillnet permit use has declined, and set gillnet activity has remained stable. During the 1997 season, 71 purse seine (lowest since 1975), 24 drift gillnet, and 73 set gillnet permits were fished.

The number of landings made in this fishery more than doubled between 1978 and 1988 when they peaked at 4,701 (Appendix C.5). The number of purse seine landings peaked in 1984 (2,307) while drift gillnet and set gillnet landings peaked in 1989 (590) and 1992 (2,144), respectively (Appendices C.6-C.8). The number of purse seine landings has generally decreased since 1992 (drastically in 1996 and 1997), drift gillnet landings have also decreased, and set gillnet landings have remained stable. During the 1997 season, 402 purse seine (lowest since 1975), 121 drift gillnet (second lowest since 1981), and 2,071 set gillnet landings were reported.

Commercial Salmon Harvest

For this report, some non conventional years are used for average harvest figures to better represent the historical nature of the South Peninsula post June fisheries. The 1978 through 1992, and 1993 through 1997 time periods will be used for most average harvests to show catches after Alaska salmon populations began to recover from low runs of the 1960s and 1970s, and compare those numbers to catches before and after the current post June salmon management plan was fully implemented in 1993.

The South Peninsula (including the SEDM) post June average harvests of sockeye and pink salmon have increased since 1992, while the chinook, coho, and chum average catches have decreased, when compared to the 1978-92 average harvests (Appendix C.9). However, the South Peninsula post June total salmon harvest declined dramatically in 1996, and all catches except sockeye declined even further in 1997.

Most South Peninsula post June fishing periods are based on local pink and chum salmon run strengths. The SEDM, Thin Point Cove, Morzhovoi Bay, and the fall fisheries are notable exceptions to this statement. Most purse seine fisheries target pink and chum salmon, while drift and set gillnet efforts are usually directed toward sockeye and coho salmon (McCullough 1990).

From 1978 through 1992, post June catches of all species in the South Peninsula averaged 7,451,586 salmon and ranged from 2,813,059 in 1987 to 12,822,334 in 1984 (Appendix C.5). The 1978 through 1992 average harvest was composed of 4,004 chinook, 521,634 sockeye, 277,093 coho, 5,728,901 pink, and 919,953 chum salmon. Since 1992, the South Peninsula post June harvest has averaged 8,847,459 salmon, composed of 2,316 chinook, 605,449 sockeye, 219,609 coho, 7,224,956 pink, and 795,129 chum salmon. The largest reported post June salmon harvest of 18,378,036 fish, composed of 2,079 chinook, 824,679 sockeye, 254,581 coho, 16,123,733 pink, and 1,172,964 chum salmon, occurred in 1995. Most post June South Peninsula salmon are harvested with purse seine gear, however, since 1992 the majority of sockeye salmon has been caught with set gillnet gear.

Chinook. The 1997 South Peninsula post June chinook harvest of 1,352 salmon was the smallest catch since 1985, and well below both the 1978-92 and 1993-97 average harvests of 4,004, and

2,316 chinook salmon, respectively (Appendix C.9). The largest reported chinook catch of 12,833 salmon occurred in 1983. From 1978 through 1992, purse seine fishers caught 92.3% of the chinook salmon harvest, while drift gillnet and set gillnet fishers accounted for 1.8% and 5.8%, respectively (Appendix C.10). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total chinook harvest.

Sockeye. The 1997 South Peninsula post June sockeye harvest of 630,008 salmon, was above both the 1978-92 and 1993-97 average harvests of 521,634 and 605,449 salmon, respectively (Appendix C.11). The largest reported sockeye catch of 1,039,265 salmon occurred in 1990. 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. From 1978 through 1992, purse seine fishers caught 53.7% of the sockeye salmon harvest, while drift gillnet and set gillnet fishers accounted for 6.1% and 40.2%, respectively (Appendix C.12). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total sockeye salmon harvest

Coho. In the South Peninsula, coho salmon is the only species where long term post June harvest records are available (Appendix C.9). Historically, South Peninsula coho salmon catches have demonstrated long periods of varying abundance (Appendix A.12). From 1923 through 1946, coho salmon catches fluctuated but maintained 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 salmon harvests increased substantially, as Alaska salmon stocks began to recover from low runs during the 1960s and 1970s, and averaged 262,722 fish from 1978-97. The largest reported coho salmon catch of 505,278 salmon occurred in 1988.

The 1997 South Peninsula post June coho salmon harvest of 111,872 fish was the lowest since 1987, and well below both the 1978-92 and 1993-97 average harvests of 277,093 and 219,609 fish, respectively (Appendix C.13). The 1986-95 trend toward higher coho salmon catches appears to have reversed with fisheries closures during July 1-19 in most of the South Peninsula. From 1978-92, purse seine fishers caught 79.4% of the coho salmon harvest, while drift gillnet and set gillnet fishers accounted for 10.7% and 9.9%, respectively (Appendix C.14). Recent harvest trends indicate that set gillnet fishers are catching an increasing proportion of the total coho salmon harvest.

Pink. Pink salmon are the most abundant salmon species produced in South Peninsula streams (Murphy 1992). The 1997 South Peninsula post June pink salmon harvest of 1,697,989 fish was the lowest since 1987, and well below both the 1978-92 and 1993-97 average harvests of 5,728,901 and 7,224,956 fish, respectively (Appendix C.15). From 1978-92, purse seine fishers caught 96.3% of the pink salmon harvest, while drift gillnet and set gillnet fishers accounted for 0.7% and 3.0%, respectively. During 1996 and 1997, very low prices and smaller than expected pink salmon runs led to reduced fishing effort and a drastic reduction of pink salmon harvests. Future pink salmon harvests may continue to be limited by low prices and lack of markets, rather than the availability of fish.

Chum. Chum salmon are the second most abundant salmon species produced in South Peninsula streams (Murphy 1992). The 1997 South Peninsula post June chum salmon harvest of 283,929 fish was the lowest since 1975 and well below both the 1978-92 and 1993-97 average harvests of 919,953 and 795,129 fish, respectively (Appendix C.16). The largest reported chum salmon catch of 1,593,590 fish occurred in 1994, and is attributed to an exceptionally large return of late run chum salmon in the Volcano Bay Section of the Southwestern District. From 1978 through 1992, purse seine fishers caught 89.1% of the chum harvest, while drift gillnet and set gillnet fishers accounted for 2.7% and 8.2%, respectively. During 1996 and 1997, very low pink and chum salmon prices and smaller than anticipated pink salmon runs led to reduced fishing effort and a drastic reduction of both pink and chum salmon harvests. Therefore, recent harvest trends indicating that set gillnet fishers are catching an increasing proportion of the total chum salmon harvest, may be a short term event rather than a long term trend.

Salmon Escapements

There are approximately 185 salmon spawning systems in the South Peninsula area, with sockeye salmon found in 23, pink salmon in at least 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 Lake, and Mortensen's 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 salmon in determining fishing time for the Northwest Stepovak Section, concerns regarding potential Chignik bound sockeye salmon harvests, and the difficulties involved with estimating fish from the air. The department 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 1960s and early 1970s, Alaska salmon production was at very low levels and did not begin to rebuild until the mid 1970s. 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 1997, the South Peninsula total indexed salmon escapement averaged 3,380,227 salmon composed of 74,638 sockeye, 2,780,538 pink, and 520,885 chum salmon. No chinook salmon spawn in South Peninsula waters and coho salmon escapement data, for most of the area, are not collected annually.

A separate report provides estimated catch and escapement age, sex, and length data (Nelson et al. 1997). 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

1997), the Aleutian Islands and Atka-Amlia Management Areas (Holmes, 1998), and the North Alaska Peninsula salmon fisheries (Murphy et al. 1997).

Sockeye. The 1997 South Peninsula total indexed sockeye salmon escapement of 104,440 fish was above the most recent ten year average of 99,710, and within the escapement goal range of between 67,800 and 135,000 fish (Appendix F.8). From 1977 through 1997, the sockeye salmon indexed escapement has ranged from 39,200 in 1982 to 129,110 in 1995 and averaged 74,638 fish.

Orzinski Lake, Thin Point Lake, and Middle Lagoon are the primary sockeye salmon producers in the South Peninsula (Appendix F.5) and fish weirs were used to enumerate salmon escapement at Orzinski and Thin Point Lakes in 1997. Orzinski Lake in the Southeastern District produced a strong run and had an estimated sockeye escapement of 35,000 salmon (Appendix F.6). In 1997, Thin Point Lake produced a below average run, while other Southwestern District sockeye salmon system runs were about average. The Thin Point estimated sockeye escapement was 10,000 salmon, well below the 20,000 to 30,000 fish escapement goal range (Appendix F.7). The Middle Lagoon estimated sockeye escapement was 23,500 salmon which was within the 16,000 to 32,000 fish escapement range.

Coho. Due to limited survey data, no 1997 coho salmon indexed escapement was calculated for the South Peninsula. The most complete coho survey to date occurred in 1990, and the indexed coho escapement was 87,500 salmon (Appendix F.4). During 1994 through 1997, 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 in both 1994 and 1995, and 11,000 in 1996. In 1997, the Thin Point peak coho salmon escapement count was 3,000, which is the lower range of the escapement goal, and should be considered a minimum. The Thin Point coho salmon escapement goal range is 3,000 to 6,000 fish.

Pink. The 1997 South Peninsula total indexed pink salmon escapement of 5,243,275 salmon was the second largest escapement on record and exceeded the upper end of the odd year escapement goal range of 1,600,000 to 3,180,000 fish (Appendix F.9). From 1977 through 1997, the pink salmon indexed escapement has ranged from 851,200 in 1983 to 6,406,300 in 1995 and averaged 2,780,538 fish. During the last ten years, the South Peninsula total pink salmon indexed escapement has averaged 3,344,909 fish.

In 1997, the South Peninsula pink salmon escapement timing was later than projected in several areas, especially in the Southeastern District. Because of the late pink salmon escapements, fishing time in the Southeastern District was severely restricted after July 26 to achieve escapement goals. Salmon escapements were also enhanced by reduced fishing effort due to a price dispute between fishers and processors concerning both pink and chum salmon. The large 1997 South Peninsula pink salmon escapements appear to be a result of reduced fishing effort rather than a strong run.

Chum. The 1997 South Peninsula total indexed chum salmon escapement of 809,050 was the largest escapement on record and exceeded the upper end of the escapement goal range of 350,000 to 690,000 fish (Appendix F.10). From 1977 through 1997, the chum salmon indexed escapement

has ranged from 310,500 in 1989 to 809,050 in 1997 and averaged 520,885 salmon. During the last ten years the chum salmon indexed escapement averaged 520,658 fish.

In 1997, chum salmon escapements generally met escapement objectives. Escapements were excellent in the SEDM area, Canoe Bay, Volcano Bay, Belkofski Bay, and Cold Bay. Chum salmon escapements were also enhanced in 1997 by reduced fishing effort due to very low prices paid for pink and 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 is located on the south side of the Alaska Peninsula, and occurs in Beaver, Balboa, and Stepovak Bays (Appendix D.1). Under a management plan originally established by the Alaska Board of Fisheries (BOF) in 1985, and based on the Cape Igvak Salmon Management Plan, in the Kodiak Management Area (KMA), the fishery is currently allocated 6% of the total Chignik Management Area (CMA) bound sockeye salmon harvest through July 25. Beginning July 1, the Northwest Stepovak Section is managed entirely on local stocks, and before July 1 on the Chignik sockeye salmon allocation (Appendix D.2). The Stepovak Flats Section is 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 CMA. After July 25, the entire SEDM area is managed on local stocks (Campbell 1997b).

Since 1978, set gillnet gear is the only legal gear type allowed through July 10. After July 10 fishing periods for set gillnet and seine gear are established by emergency order. During the last ten years, about 90% of the total SEDM sockeye salmon harvest through July 25, has been by set gillnet fishers and the remaining 10% by purse seine fishers (Appendices D.3 and D.4). Fishing effort during June and most of July primarily targets Chignik bound sockeye salmon. The Orzinski Lake sockeye salmon 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 salmon 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).

Recent Regulatory History

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 through July 10 for set gillnet gear. In 1978, harvest rates through July 25 were low despite strong Chignik runs, resulting in a SEDM catch of only 31,197 sockeye salmon, of which 21,952 were considered Chignik destined salmon (Appendix D.5). From 1973 through 1978, an average of 20 set gillnet and 17 purse seine fishers participated in this fishery through July 25 (Appendix D.6).

Beginning with the 1979 season, 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, the annual SEDM sockeye salmon harvest averaged 76,000 fish, with about 61,000 (5.1% of the total Chignik bound sockeye salmon harvest) caught through July 25. These harvests were achieved in spite of numerous fishery closures imposed by the department because of poor Chignik sockeye salmon escapements. Set gillnet permit activity, through July 25, increased from 23 permits in 1978 to 37 permits in 1982 (Appendix D.6).

In 1983 an estimated 227,392 Chignik bound sockeye salmon (11.39% of the total Chignik bound sockeye harvest) were caught in the SEDM fishery through July 25 (Appendices D.7 and D.8). Most of the sockeye salmon harvest (76%) occurred after July 10.

In 1984, set gillnet effort increased to 54 permits through July 25, 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 six days were required to harvest an estimated 60,000 Chignik bound sockeye salmon. The SEDM fishery was closed for only three days before the Chignik sockeye harvest reached 1,000,000 salmon, and the SEDM fishery was reopened on June 14. The late Chignik sockeye salmon run was not as strong as predicted and the second run escapement goal was reached only after considerable curtailment of the SEDM, Chignik, and Cape Igvak of the KMA fisheries during mid-July. The total 1984 SEDM harvest of Chignik destined sockeye salmon through July 25 was 423,068 fish (Appendices D.7).

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 salmon 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 was 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.

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

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 salmon in the SEDM, through July 25, averaged 113,258 fish 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 salmon harvest through July 25. This BOF action was taken in an attempt to maintain traditional harvest levels of Chignik bound

sockeye salmon in the SEDM fishery and to compensate for the increased area managed for local Orzinski Lake stocks.

- 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 the sockeye caught in the SEDM fishery through July 25, excluding 100% of the sockeye salmon caught within the Northwest Stepovak Section from July 1 through July 25.

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 in the Chignik Area to harvest excess early run sockeye salmon, even though second run fish are present.

During the past ten years (1988-97), the SEDM harvest of Chignik bound sockeye salmon through July 25 averaged 88,535 fish (6.2% of the total Chignik bound harvest). The 1997 SEDM harvest of Chignik bound sockeye salmon through July 25 was zero (0.0% of the total Chignik bound harvest; Appendix D.5) because no commercial fishing periods were allowed through July 25 in the SEDM fishery (outside the Northwest Stepovak Section) because of poor sockeye run strength in Chignik.

Effort Levels

Since 1978, a substantial increase in set gillnet effort has occurred in the SEDM fishery. The number of set gillnet permits fished through July 25 increased from 23 permits in 1978 to a high of 68 in 1996 (Appendix D.6). Previously, many fishers participated in both set gillnet and purse seine fishing, and received a limited entry permit for each gear type. During the late 1970s and throughout the 1980s, 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, through July 25, have also increased in recent years with a high of 1,711 reported in 1996 (Appendix D.9). Set gillnet landings in the SEDM, through July 25, averaged 440 from 1985 through 1991, 702 from 1992 through 1995, and 1,168 during 1996 and 1997. All of the 1997 SEDM set gillnet landings, through July 25, were from the Northwest Stepovak Section.

Purse seine effort through July 25 has fluctuated dramatically since 1986, and ranged from zero in 1994 to a high of 69 in 1990, with 12 permits fished in 1997. The number of purse seine permits

fished in the SEDM fishery through July 25 averaged 28 from 1985 through 1991, 21 from 1992 through 1995, and 19 during 1996 and 1997 (Appendix D.6).

The number of purse seine landings, through July 25, has also fluctuated dramatically from zero in 1994 to a high of 69 in 1990, with 23 landings in 1997. Purse seine landings in the SEDM through July 25 averaged 56 from 1985 through 1991, 32 from 1992 through 1995, and 35 during 1996 and 1997 (Appendix D.9). All of the 1997 SEDM purse seine landings, through July 25, were from the Northwest Stepovak Section.

Local Stocks Fisheries

Northwest Stepovak Section. Currently, 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. Through July 25, 80% of those sockeye salmon caught in the remainder of the SEDM fishery are considered to be from the Chignik River runs.

Orzinski Lake sockeye salmon escapements were assessed using a weir from 1935 through 1941, and from 1990 through 1997 (Appendix D.9). Based on historical aerial surveys and weir counts, sockeye salmon escapement requirements for Orzinski Lake by time periods were developed and implemented beginning with the 1991 season. The sockeye salmon escapement goal for Orzinski Lake is 20,000 adult fish. From 1990 through 1997, the sockeye escapement has averaged about 30,000 salmon, and ranged from a high of 40,000 in 1991 to a low of 15,000 in 1990. Since 1990, July 10 is the average date when 50% of the total sockeye escapement requirement of 20,000 salmon has been achieved. In 1997, the Orzinski Lake weir was operated from June 12 through July 26 and 24,938 sockeye were counted through the weir (Appendix F.5). Based on aerial surveys conducted after the weir was removed, an additional 10,062 fish were added to the Orzinski Lake weir count for a total estimated sockeye salmon escapement of 35,000 (Appendix F.6).

The 1997 Northwest Stepovak Section sockeye salmon harvest through July 25 was 304,865 (Appendix D.10), with 100% of those fish caught after June 30, and considered local stocks as described under 5 AAC 09.360(a)(1).

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 salmon harvested in this section through July 25 are assigned as Chignik bound fish, and included in the 6.0% allocation criteria stated in the current SEDM salmon management plan. The entire Stepovak Flats Section is closed to salmon fishing by regulation beginning July 29 to protect schooling chum salmon which are needed to achieve escapement requirements. The Stepovak Flats Section was closed during the entire 1997 season to achieve local escapement requirements.

1997 Season Summary

The 1997 forecast for the total harvest of Chignik bound sockeye salmon was 600,000 salmon for the first (Black Lake) run and 1,350,000 salmon for the second (Chignik Lake) run (Owen and Sarafin 1997). The forecast indicated that a fishery may occur in the SEDM targeting Chignik bound sockeye salmon since a harvest of at least 600,000 sockeye was expected in the CMA which is one of the conditions of the management plan. Although the 1997 CMA forecast indicated a Chignik harvest of at least 600,000 sockeye, the first run failed to develop as predicted and no commercial fishing periods were allowed in the SEDM targeting Chignik bound sockeye salmon. In 1997, there were no openings in the SEDM, outside of the Northwest Stepovak Section, through July 25. Therefore, the 1997 Chignik component of the SEDM harvest was zero. However, 304,629 sockeye salmon were caught from July 1 through July 25 in the Northwest Stepovak Section, and considered local stocks.

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 7.2% in 1992 to 6.7% in 1993. The current management plan, most recently revised by the Board in 1996, provides for the harvest of 6.0% of the total Chignik sockeye salmon catch, through July 25. During the past five years, the allowable harvest percentage has been achieved every year except 1997, and the Orzinski Lake sockeye salmon escapement goal has been attained.

The 1997 SEDM annual harvest was 535,495 fish composed of 293 chinook, 407,547 sockeye, 23,652 coho, 83,762 pink, and 20,241 chum salmon (Appendix D.11). Purse seine gear caught 101,250 salmon (18.9% of the total salmon harvest; Appendix D.12), while set gillnet gear accounted for the remaining 434,245 fish (81.1%; Appendix D.13) Purse seine gear caught 6.9% (27,928 fish), and set gillnet gear accounted for the 93.1% (379,619 fish) of the sockeye salmon harvest (Appendix D.14).

Shumagin Islands 1997 Season Summary

During July 1-19, Zachary Bay was the only area in the Shumagin Islands open to commercial salmon fishing and effort was minimal (Appendix B.19). Test fishing prior to the July 20 general fishing period indicated that although immature salmon were present they were not abundant enough to warrant closing the South Peninsula to purse seine gear. The South Peninsula fishery opened on July 20, however after July 26 most permit holders did not fish until a price dispute was resolved on August 13. Before the price dispute was settled, the entire Southeastern District, including the Shumagin Islands Section, was closed to commercial salmon fishing because of low pink salmon escapements. The Shumagin Islands Section did not reopen until September 1.

The 1997 Shumagin Islands Section post June (July 1-October 31) total salmon harvest of 363,410 fish was the lowest since 1977, and was composed of 974 chinook, 107,752 sockeye, 43,854 coho, 184,751 pink, and 26,079 chum salmon (Appendix C.17). The 1997 Shumagin Islands post June catches, for all species, were well below both the 1978-92 and 1993-97 average harvests.

From the mid 1970s through 1995, the effort levels and the number of landings increased for all gear types in the Shumagin Islands Section post June fishery. However, both effort levels and the number of landings declined dramatically during the 1996 and 1997 seasons. From 1993 through 1997, the effort levels in the post June fishery averaged 57 purse seine permits and 47 permits for set gillnet gear (Appendices C.18 and C.19). During the 1997 season, 40 purse seine, lowest since 1977, and 39 set gillnet, lowest since 1986, permit holders participated in the Shumagin Islands Section post June fishery. During the past five years, the annual number of landings in the Shumagin Islands Section post June fishery has averaged 399 for purse seine and 496 for set gillnet permit holders. Purse seine and set gillnet fishers made 82, lowest since 1977, and 273, lowest since 1985, landings, respectively, during the 1997 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 and coho salmon harvests. 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.

Southeastern District 1997 Season Summary

The post June harvests of all species combined in the Southeastern District have increased since 1970 and averaged 3,271,510 salmon from 1978 through 1992 and 4,129,883 salmon from 1993 through 1997 (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 and 1997 Southeastern District pink salmon runs were much lower than projected and fishing periods were limited in the post June fisheries. The 1997 Southeastern District post June salmon harvest of 898,905 fish was the lowest since 1977, and was composed of 1,267 chinook, 515,299 sockeye, 67,506 coho, 268,513 pink, and 46,320 chum salmon.

The 1997 Southeastern District fall fishery opened on September 1, and the last landing was recorded on October 17. During the 1997 Southeastern District fall fishery a total of 109,272 salmon were harvested, composed of 30 chinook, 76,068 sockeye, 23,432 coho, 3,568 pink, and 6,174 chum salmon (Campbell 1997a). The 1997 fall harvest exceeded the most recent ten year (1988-97) average for all species except pink and chum salmon.

The 1997 Southeastern District indexed total escapement of 2,063,175 salmon was composed of 50,350 sockeye, 1,745,175 pink, and 267,650 chum salmon (Appendix F.11; coho salmon data are not available). Chum and pink salmon escapements were excellent in most systems throughout the district. Sockeye salmon escapements were generally good; Orzinski Lake exceeded the desired escapement goal of 20,000 salmon, and Acheredin Lake reached the upper range of 12,000 salmon.

South Central District 1997 Season Summary

The 1997 South Central District post June harvest of 662,406 salmon was the second lowest since 1990 and was composed of 45 chinook, 42,992 sockeye, 4,440 coho, 559,879 pink, and 55,050

chum salmon (Appendix C.23). The 1997 South Central District indexed escapement of 2,556,050 salmon was composed of 5,450 sockeye, 2,276,200 pink, and 274,400 chum salmon (Appendix F.11). Sockeye, pink, and chum salmon escapements exceeded their upper end escapement goals of 4,000, 840,000, and 200,000 fish, respectively. No indexed escapement goals have been established for coho salmon in the South Central District.

Southwestern District 1997 Season Summary

The 1997 Southwestern District post June harvest of 1,158,605 salmon was the third lowest since 1990, and was composed of 40 chinook, 70,581 sockeye, 36,812 coho, 869,070 pink, and 182,102 chum salmon (Appendix C.24). The 1997 Southwestern District indexed escapement of 1,484,540 salmon was composed of 42,640 sockeye, 1,178,200 pink, and 263,700 chum salmon (Appendix F.11). Sockeye and chum salmon escapements were slightly below the point escapement goals of 47,000 and 270,000 fish respectively. However pink salmon escapements exceeded their upper escapement goal of 840,000 fish. No indexed escapement goals have been established for coho salmon in the Southwestern District.

Unimak District 1997 Season Summary

The 1997 Unimak District post June harvest of 5,234 salmon was the second lowest since 1985, and was composed of 1,136 sockeye, 3,114 coho, 527 pink, and 457 chum salmon (Appendix C.25). The 1997 Unimak District indexed escapement of 53,000 salmon was composed of 6,000 sockeye, 43,700 pink, and 3,300 chum salmon (Appendix F.11). Sockeye and pink salmon escapements were at or just below their point escapement goals of 6,000 and 55,000 fish, respectively. No indexed escapement goals have been established for coho and chum salmon in the Unimak District.

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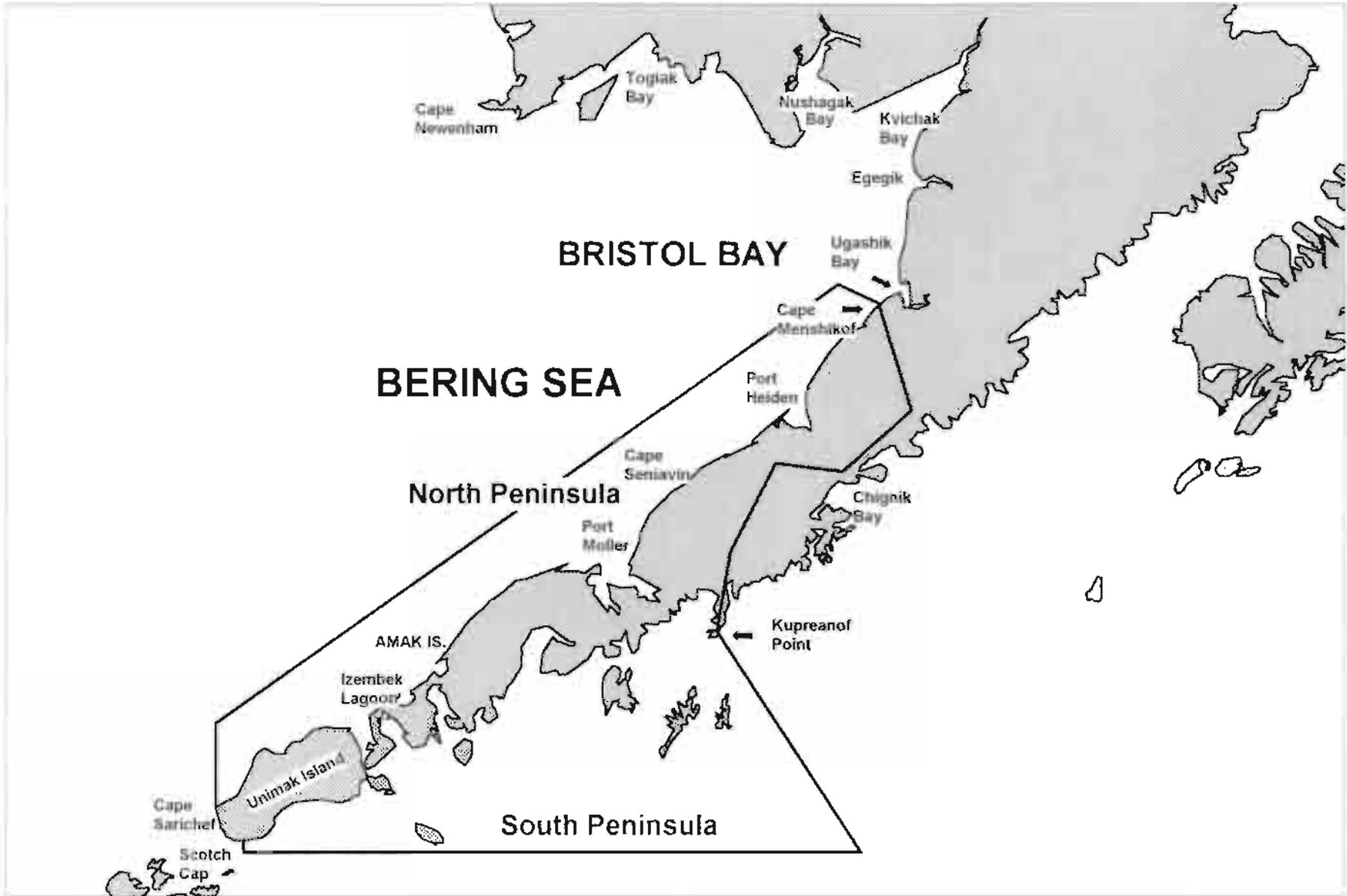
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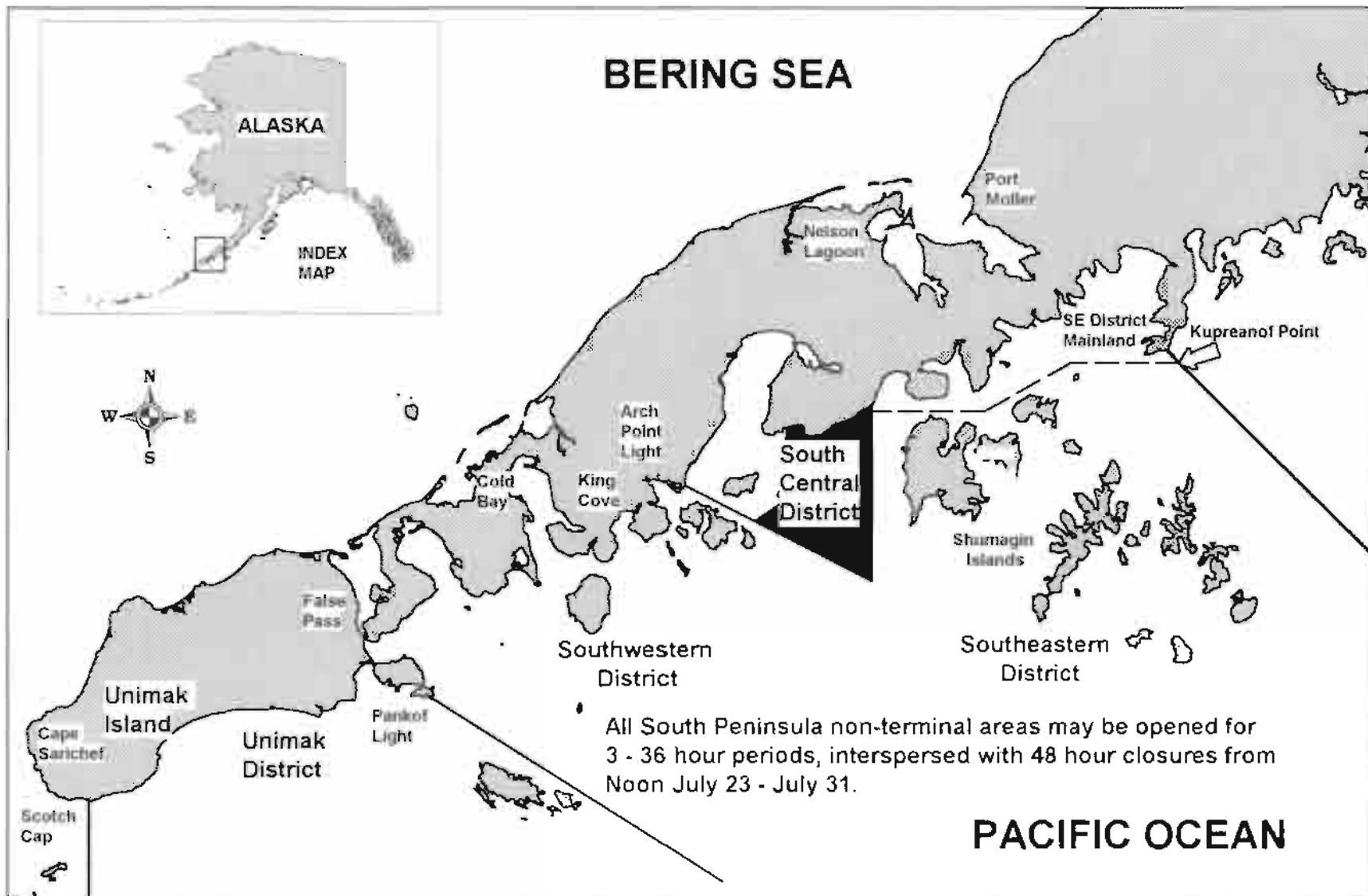
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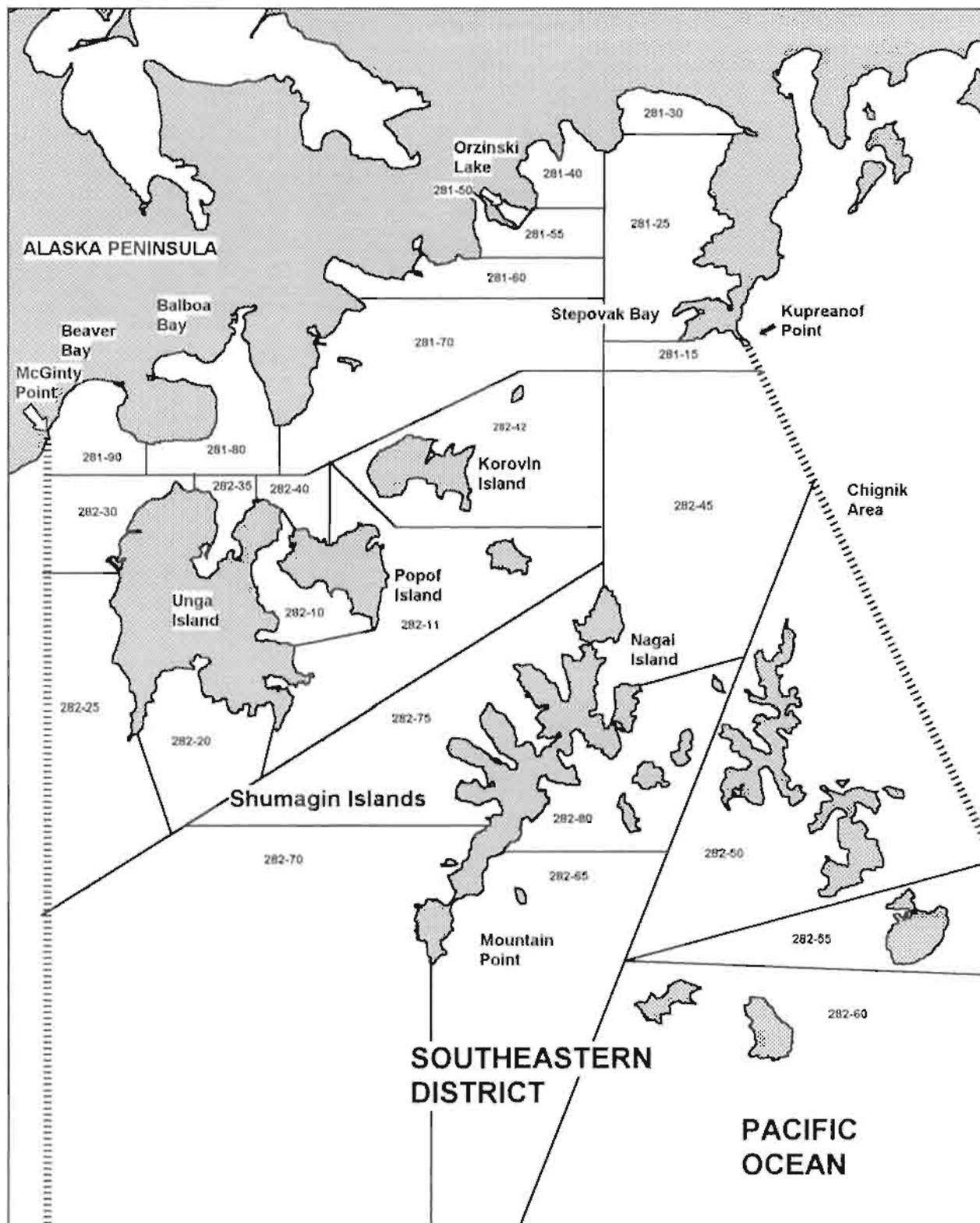
APPENDIX



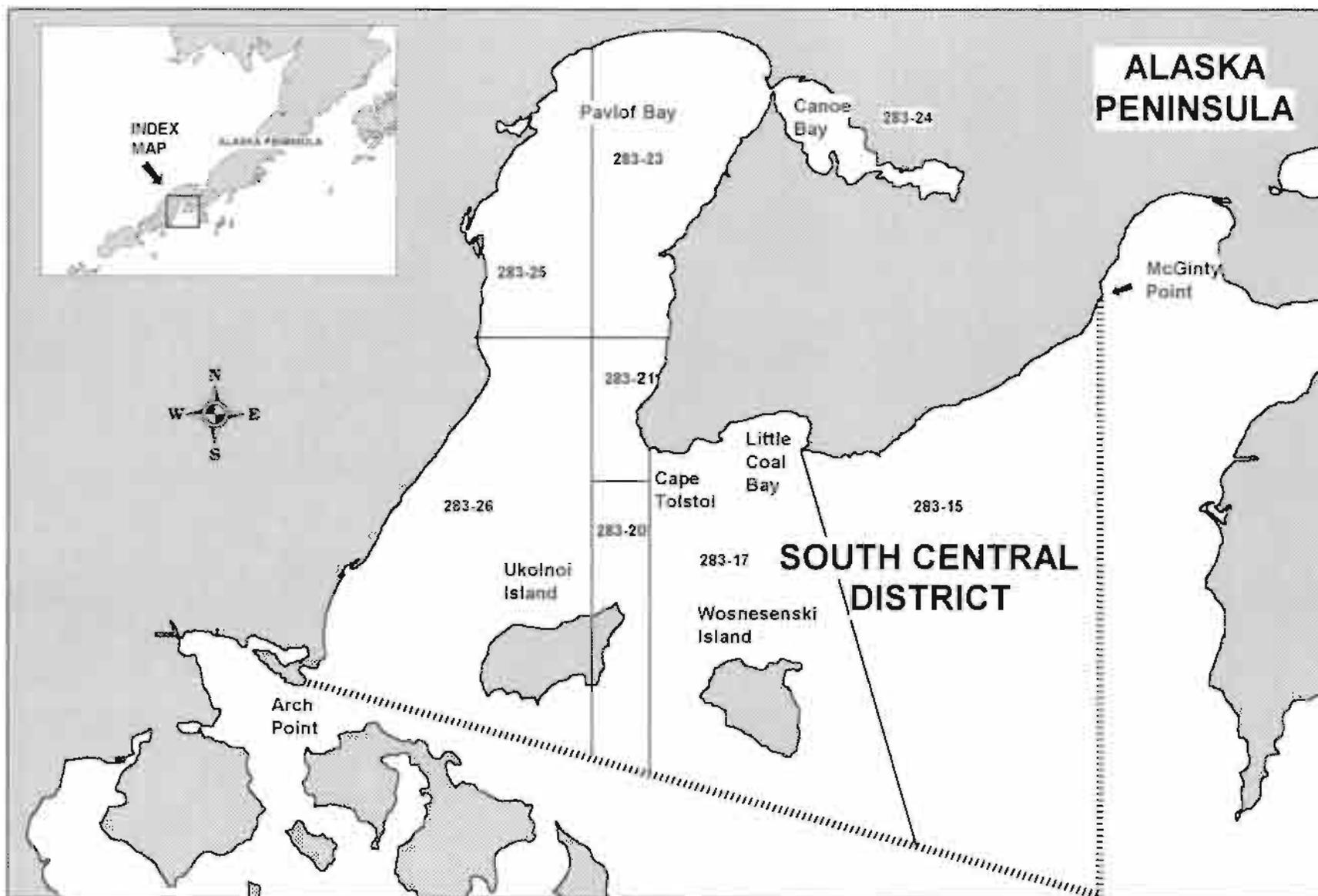
Appendix A.1 Map of the Alaska Peninsula Management Area, with the North and South Peninsula defined.



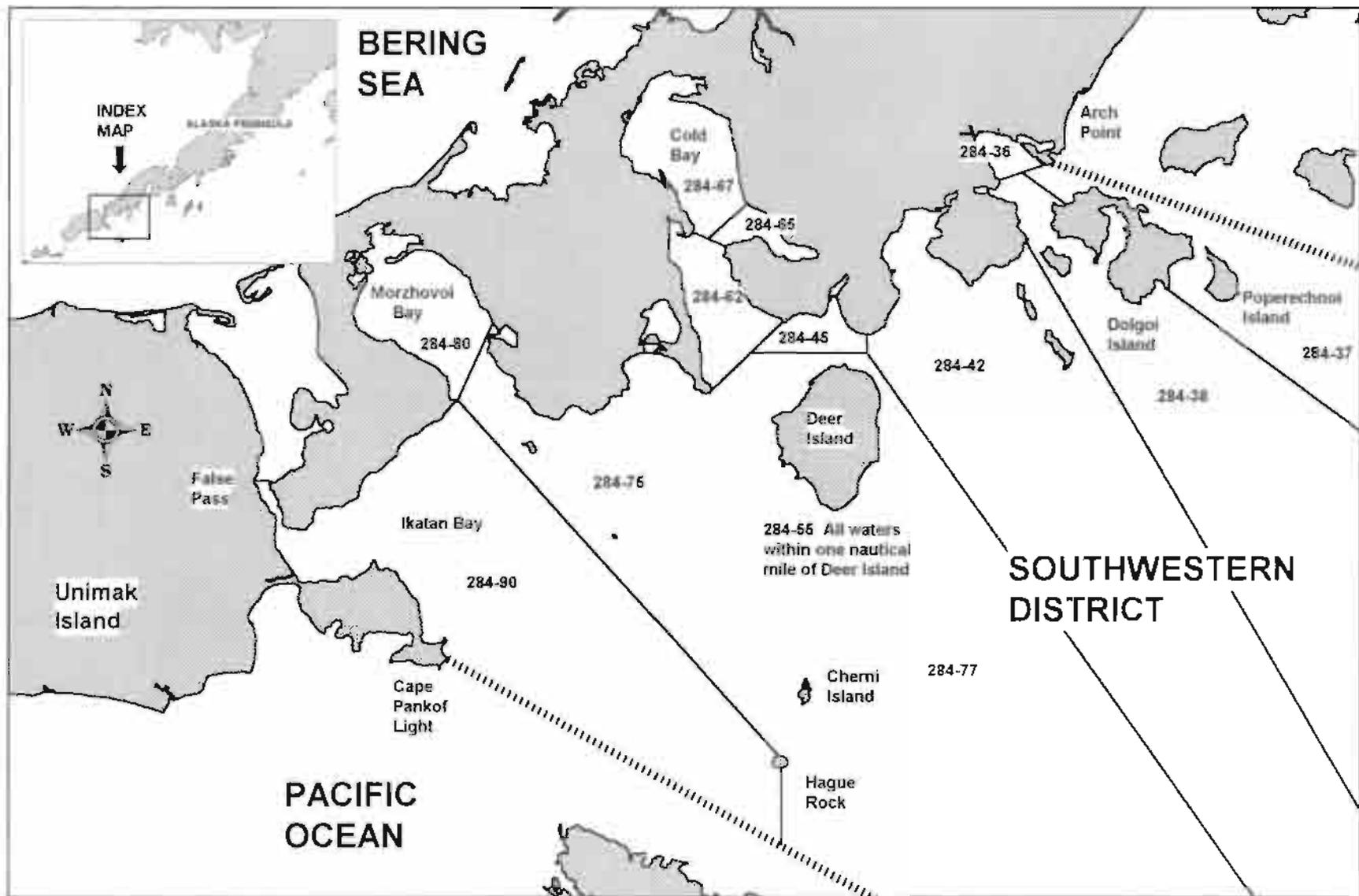
Appendix A.2. Map of the Alaska Peninsula Management Area from Kupreanof Point to Scotch Cap with the salmon fishing districts defined.



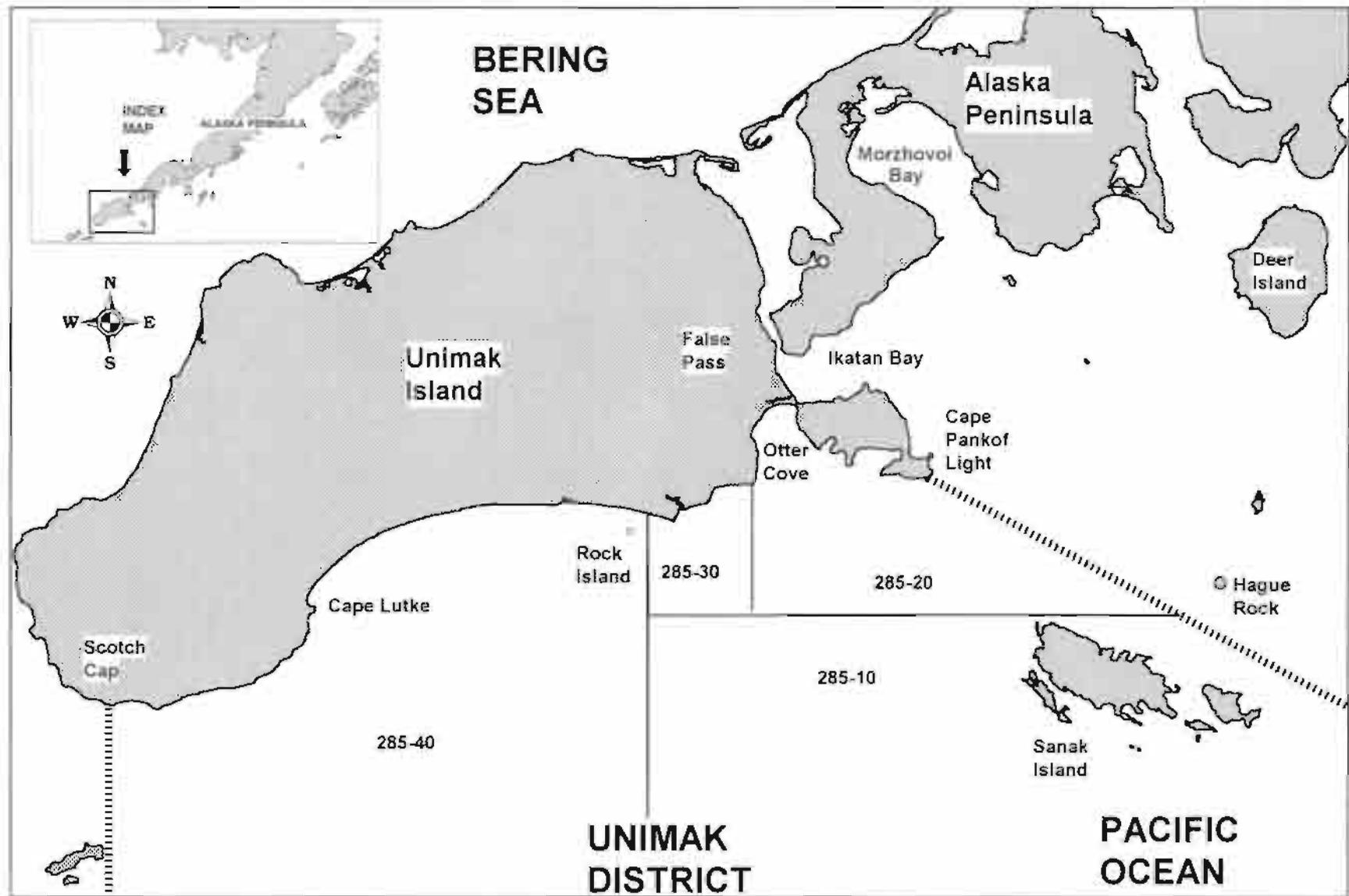
Appendix A.3. Map of the Alaska Peninsula Area from Kupreanof Point to McGinty Point (Southeastern District) with the statistical salmon fishing areas shown.



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.

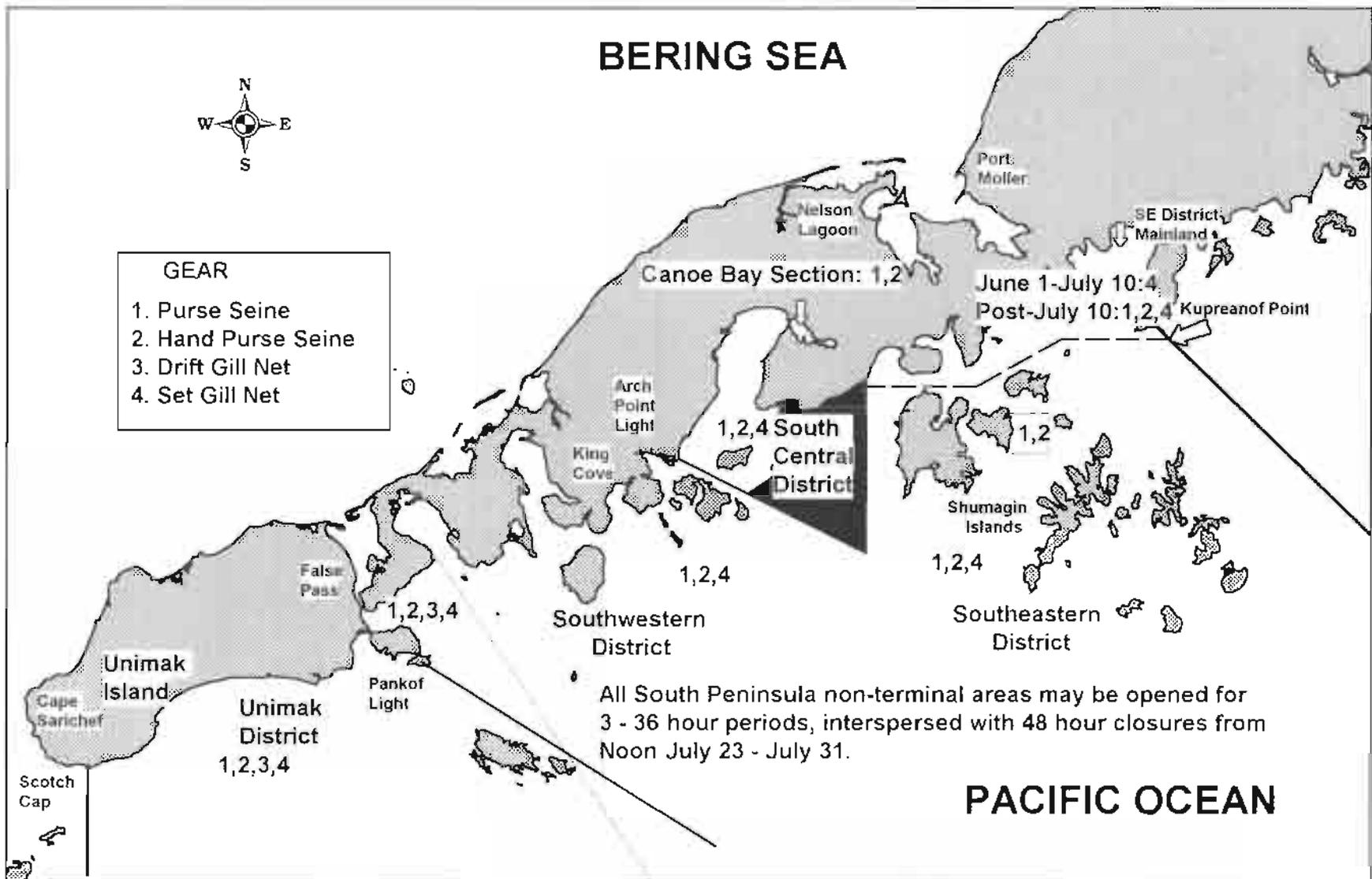


Appendix A.6. Map of the Alaska Peninsula Area from Hague Rock to Unimak Pass (Unimak District) with the statistical salmon fishing areas shown.

Appendix A.7. Number of limited entry permits and fishing effort in the South Peninsula, 1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet	
	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
1997	122	82	164	142	114	82
1978-97 Average						
	125	115	165	144	114	67
1988-97 Average						
	125	113	164	148	114	80

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, 1908-97.

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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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

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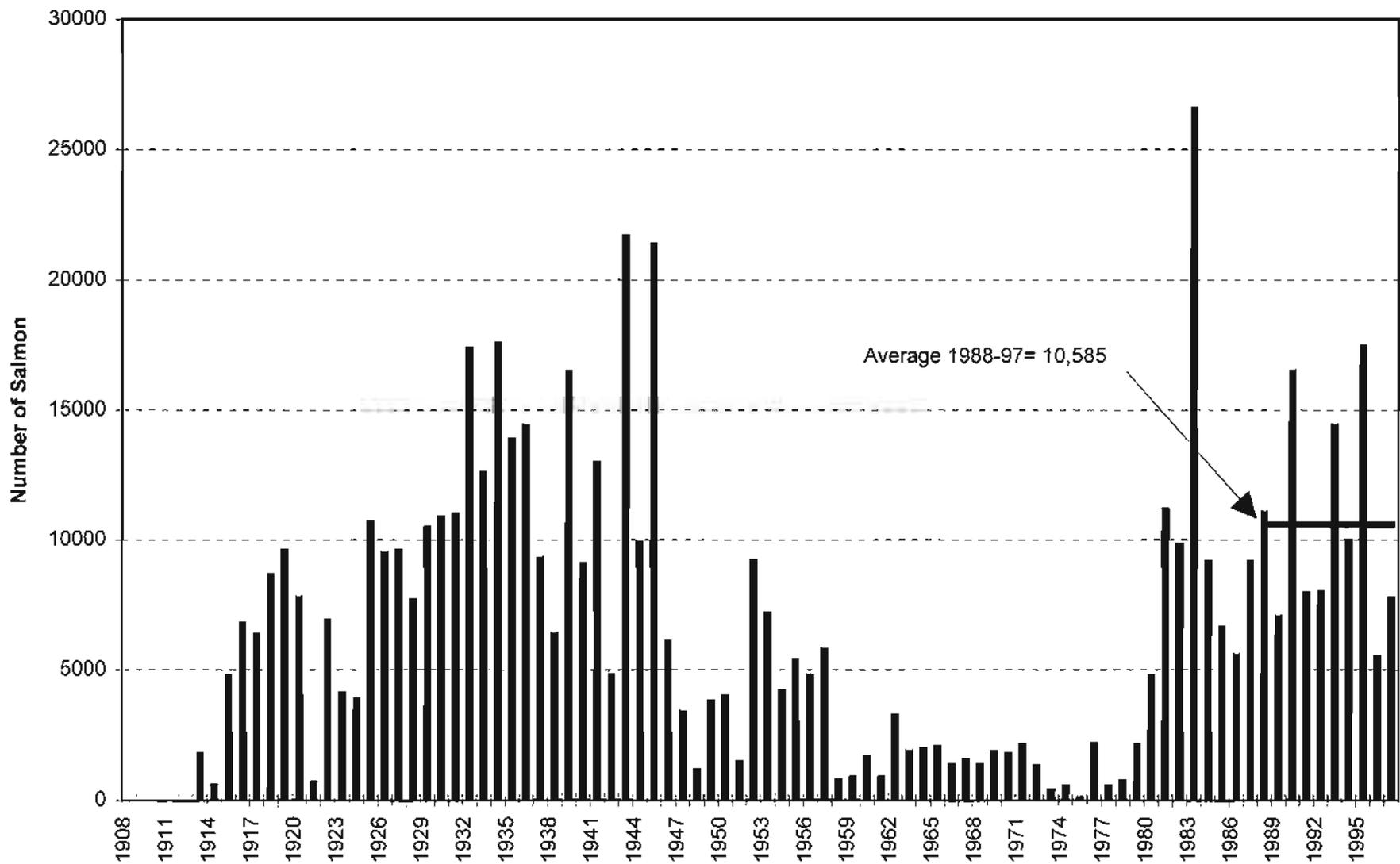
Year	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
1992 ^b	341	6,512	8,026	3,445,914	418,232	9,770,386	1,316,709	14,959,267
1993 ^b	353	6,204	14,413	3,689,074	220,148	9,928,107	1,048,257	14,899,999
1994 ^b	343	6,750	10,002	2,107,233	255,905	9,179,853	2,192,079	13,745,072
1995 ^b	352	8,193	17,469	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
1997 ^b	307	5,803	7,780	2,281,566	116,136	2,321,371	627,996	5,354,849
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}			2,567	591,844	26,747	1,523,900	751,226	2,896,285
	179	2,546						
Average 1978-97 ^c			9,588	2,227,343	266,203	6,670,574	1,384,710	10,558,418
	325	5,846						
Average 1988-97			10,585	2,492,516	314,187	7,753,908	1,343,706	11,914,901
	341	6,425						

^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.

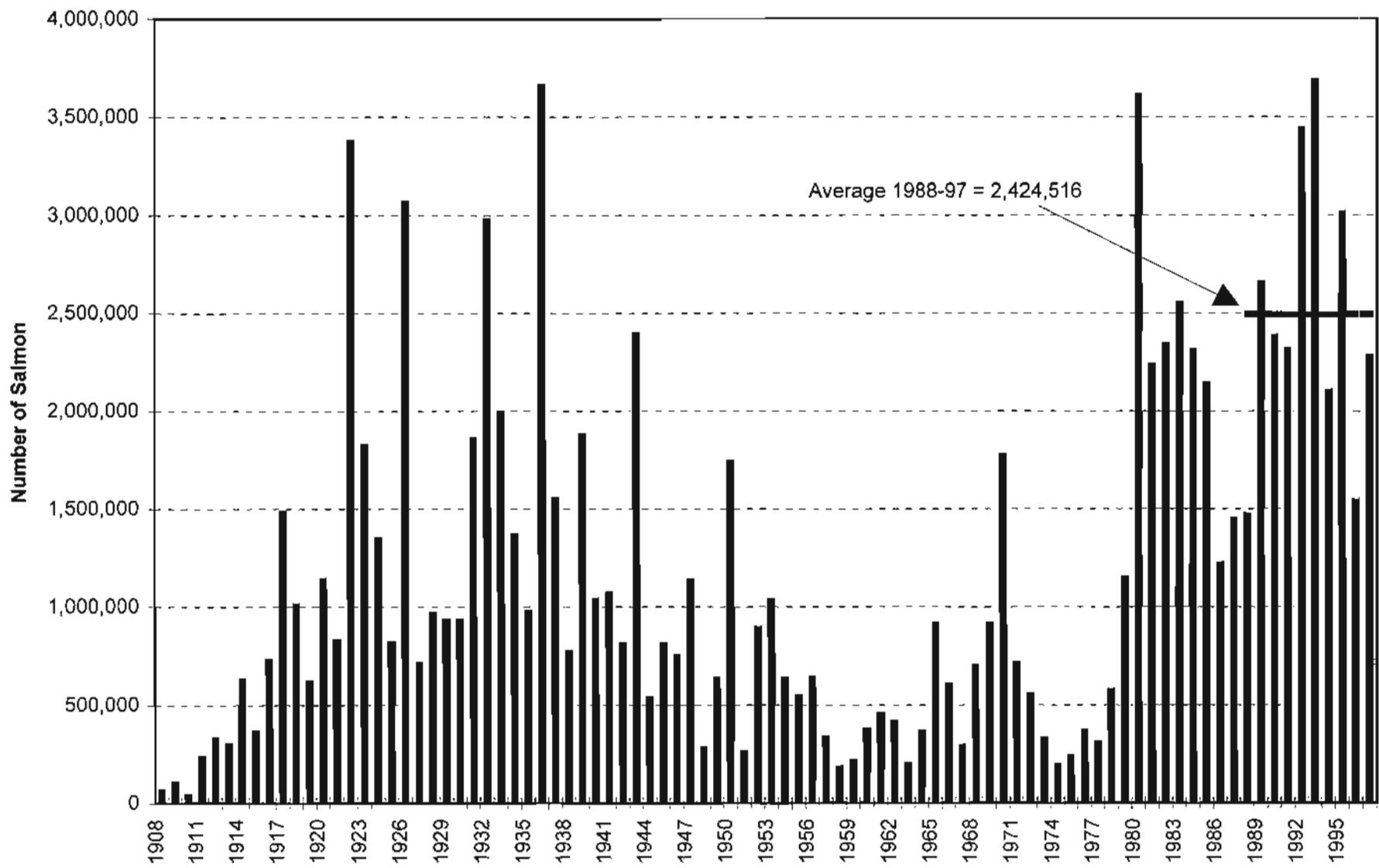
^b Salmon numbers include test fish harvests.

^c These historical averages are intended to illustrate how salmon productivity has fluctuated in the South Peninsula.

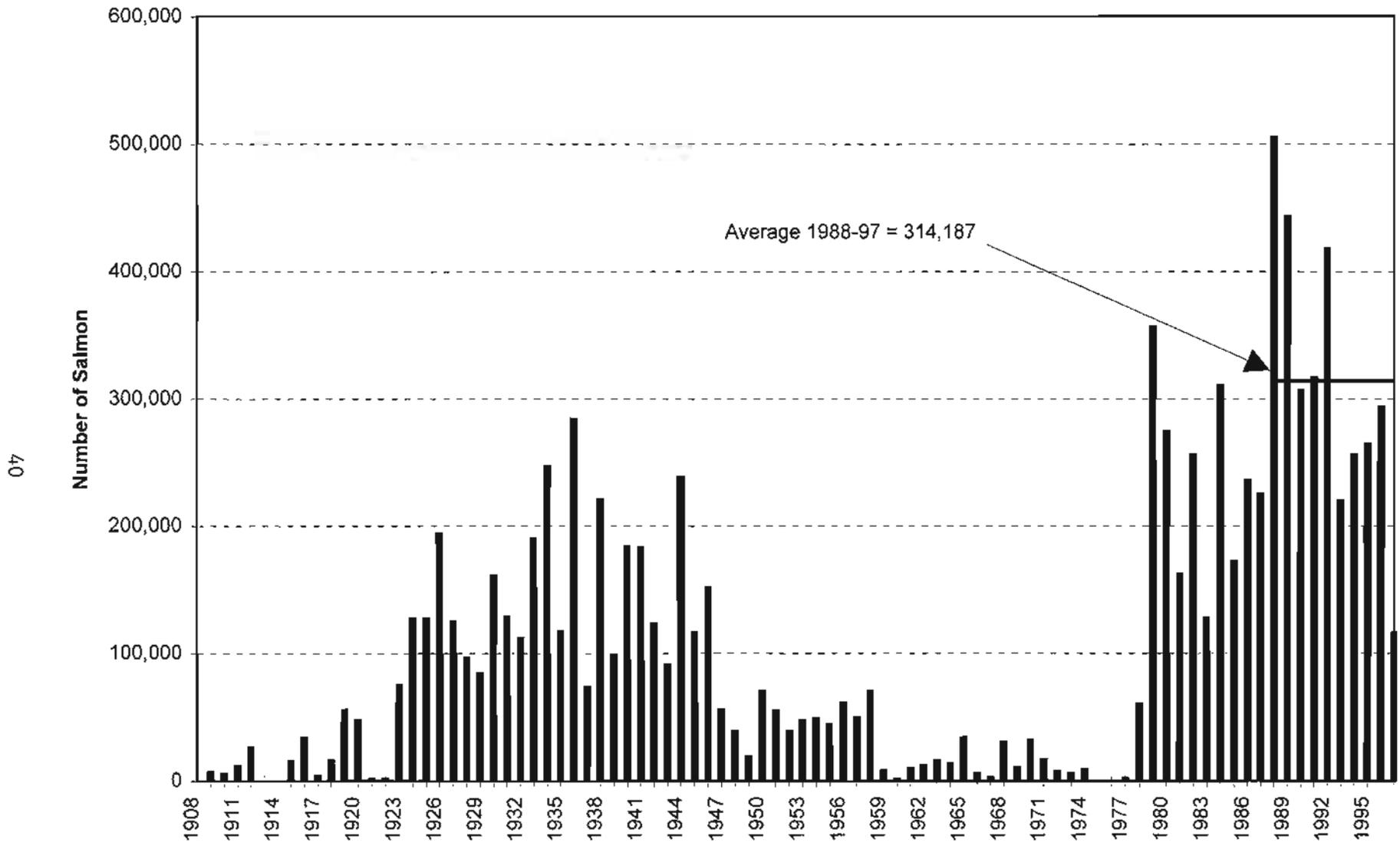
^d Permit and landing numbers are only available from 1970 through present.



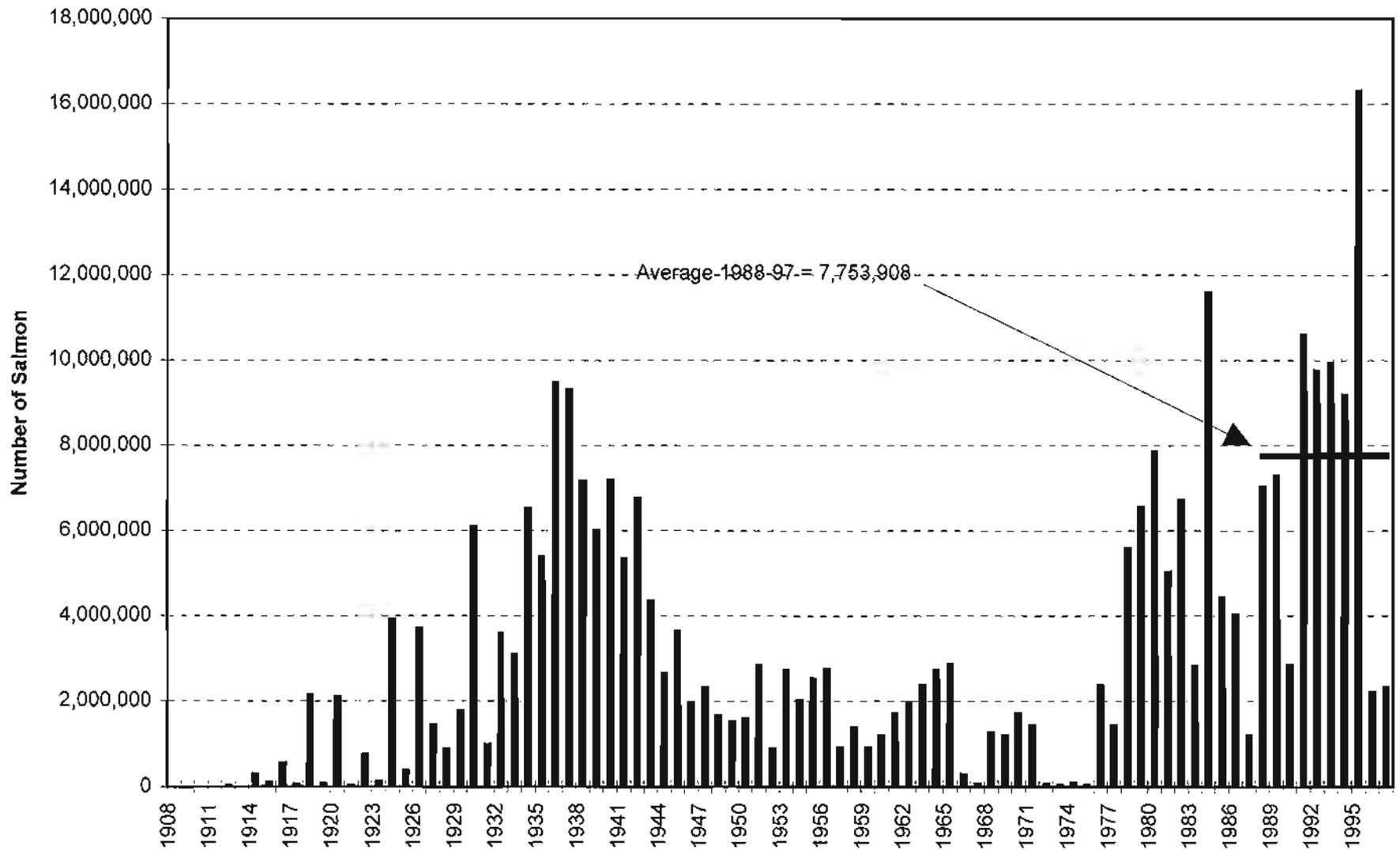
Appendix A.10. South Peninsula chinook salmon harvest by year, 1905-97.



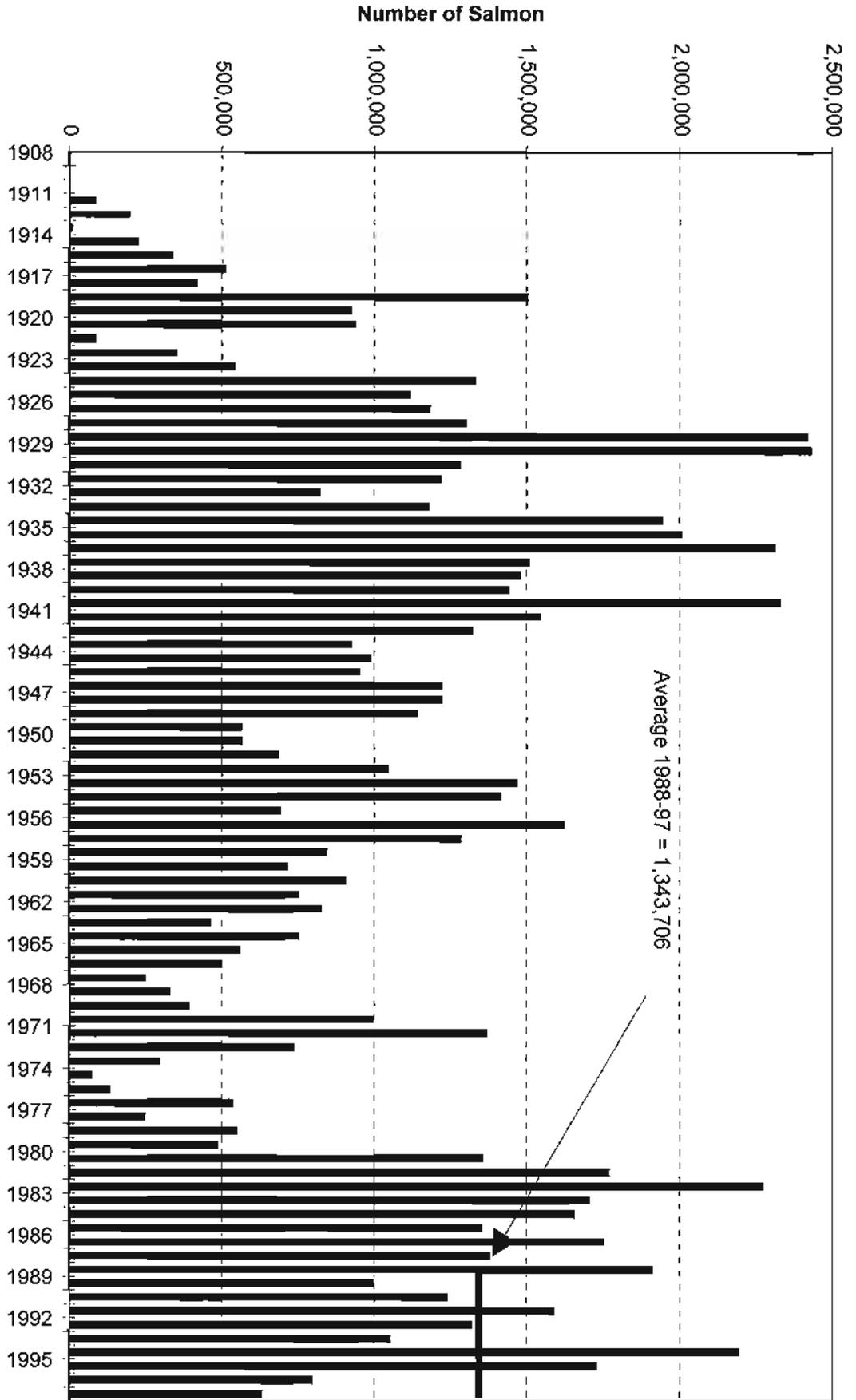
Appendix A.11. South Peninsula sockeye salmon harvest by year, 1905-97.



Appendix A.12. South Peninsula coho salmon harvest by year, 1905-97.



Appendix A.13. South Peninsula coho salmon harvest by year, 1905-97.



Appendix A.14. South Peninsula chum salmon harvest by year, 1905-97.

Appendix A.15. South Penninsula comercial salmon harvest, by statistical area, section, and district, 1997.

Statistical Area	Section	Number of Salmon					Total
		Chinook	Sockeye	Coho	Pink	Chum	
SOUTHEASTERN DISTRICT							
281-15		15	3,217	681	5,890	448	10,251
281-25		27	56,640	12,179	5,035	3,766	77,647
East Stepovak Section Total		42	59,857	12,860	10,925	4,214	87,898
281-40	Grub Gulch/Clark Bay	29	80,471	358	3,069	2,624	86,551
281-50	Orzinski Bay	12	44,136	421	1,969	911	47,449
281-55	American Bay	8	25,230	437	1,587	1,073	28,335
281-60	Blunt Pt. to Dorenoi Bay	100	166,319	1,128	12,416	3,193	183,156
Northwest Stepovak Section Total		149	316,156	2,344	19,041	7,801	345,491
281-70	Southwest Stepovak Section	48	10,761	4,289	8,396	2,454	25,948
281-80	Balboa Bay Section	54	17,454	3,626	40,213	5,430	66,777
281-90	Beaver Bay Section	0	3,319	533	5,187	342	9,381
282-10	Popof Strait/Squaw Harbor	93	19,142	3,622	9,123	4,115	36,095
282-11	Unga Cape/East Popof	2,229	265,869	27,749	246,579	98,054	640,480
282-20	Acheredin Bay	18	25,472	676	7,914	1,158	35,238
282-25	West Unga Island	64	47,891	2,491	54,406	3,370	108,222
282-30	Bay Point	7	820	0	502	82	1,411
282-35	Zachary Bay	4	5,036	52	304	586	5,982
282-40	East Head/West Head	2	3,547	7	150	186	3,892
282-42	Korovin Island	1,169	150,196	6,686	87,079	35,043	280,173
282-45	Cape Wedge/Northeast Nagai	29	5,076	0	291	4,379	9,775
282-70	Southwest Nagai Island	106	24,622	2,556	50,715	2,713	80,712
282-75	Cape Horn/Porpoise Rocks	7	6,734	74	995	291	8,101
282-80	East Nagai Strait	16	2,349	0	368	2,411	5,144
Shumagin Islands Section Total		3,744	556,754	43,913	458,426	152,388	1,215,225
SOUTHEASTERN DISTRICT TOTAL		4,037	964,301	67,565	542,188	172,629	1,750,720

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Statistical Area	Section	Number of Salmon					Total
		Chinook	Sockeye	Coho	Pink	Chum	
<i>SOUTH CENTRAL DISTRICT</i>							
283-15	Mino Creek	0	1,091	31	345	16	1,483
283-17	Coal Bay/Cape Tolstoi South	4	10,211	966	239,108	1,897	252,186
Mino Cr. - Little Coal B. Section Total		4	11,302	997	239,453	1,913	253,669
283-21	Northside Cape Tolstoi	3	1,871	54	1,895	565	4,388
283-23	Eastside Pavlof Bay	10	10,571	272	231,762	6,396	249,011
East Pavlof Bay Section Total		13	12,442	326	233,657	6,961	253,399
283-24	Canoe Bay Section	1	134	38	71,022	10,120	81,315
283-25	Northwest Pavlof Bay	1	158	0	1,199	29,045	30,403
283-26	Long Beach/Ukolnoi	26	18,956	3,079	14,548	7,011	43,620
West Pavlof Bay Section Total		27	19,114	3,079	15,747	36,056	74,023
<i>SOUTH CENTRAL DISTRICT TOTAL</i>		45	42,992	4,440	559,879	55,050	662,406
<i>SOUTHWESTERN DISTRICT</i>							
284-36	Volcano Bay	2	2,315	3	61,085	81,497	144,902
284-37	Northside Dolgoi Island	16	28,788	2,642	15,667	8,499	55,612
284-38	South Dolgoi/Moss Cape	15	17,316	2,084	21,868	1,174	42,457
Volcano Bay Section Total		33	48,419	4,729	98,620	91,170	242,971
284-42	Belkofski Bay	9	23,982	9	133,540	31,222	188,762
284-45	King Cove	0	1,354	55	56,364	16,635	74,408
Belkofski Bay Section Total		9	25,336	64	189,904	47,857	263,170
Deer Island Section		0	3	0	218,750	451	219,204
284-62	Outer Cold Bay	0	3,907	3	1,876	88	5,874
284-65	Lenard Harbor	0	1	1	126,900	6,080	132,982
284-67	Inner Cold Bay	0	0	0	105	19,050	19,155

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Statistical Area	Section	Number of Salmon					
		Chinook	Sockeye	Coho	Pink	Chum	Total
Cold Bay Section Total		0	3,908	4	128,881	25,218	158,011
284-75	Thin Point Section	2	1,793	13,024	168,042	1,083	183,944
284-80	Morzhovoi Bay Section	15	6,474	3	22,056	1,895	30,443
284-90	Ikatan Bay Section	992	389,146	19,048	309,539	73,240	791,965
<i>SOUTHWESTERN DISTRICT TOTAL</i>		<i>1,052</i>	<i>475,079</i>	<i>36,872</i>	<i>1,135,792</i>	<i>240,914</i>	<i>1,889,709</i>
<i>UNIMAK DISTRICT</i>							
285-20	Bird Island	230	112,154	94	4,590	27,680	144,748
285-30	Cape Lazaref	312	219,836	3,067	46,027	60,157	329,399
Otter Cove Section Total		542	331,990	3,161	50,617	87,837	474,147
285-40	Cape Lutke Section	1,488	443,827	394	15,450	49,824	510,983
<i>UNIMAK DISTRICT TOTAL</i>		<i>2,030</i>	<i>775,817</i>	<i>3,555</i>	<i>66,067</i>	<i>137,661</i>	<i>985,130</i>
SOUTH PENINSULA TOTAL		7,164	2,258,189	112,432	2,303,926	606,254	5,287,965

Appendix A.16. South Peninsula commercial salmon harvest, all gear combined, season total by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
12-Jun ^a	*	*	*	*	*	*	*	*
13-Jun	55	60	120	41,889	0	191	4,888	47,088
14-Jun	95	98	185	48,953	0	157	7,216	56,511
15-Jun	79	84	129	39,950	0	272	6,219	46,570
16-Jun	93	107	227	62,567	1	8	8,894	71,697
17-Jun	98	106	138	56,613	0	247	8,171	65,169
18-Jun	241	265	354	129,673	7	17,793	26,407	174,234
19-Jun	262	311	616	171,230	16	44,453	40,268	256,583
20-Jun	245	303	495	159,345	18	31,653	26,769	218,280
21-Jun	250	287	668	149,262	10	41,099	31,028	222,067
22-Jun	186	216	375	110,053	14	37,655	28,653	176,750
23-Jun	211	236	399	130,870	4	70,051	31,538	232,862
24-Jun	221	260	370	113,854	53	71,441	26,956	212,674
25-Jun	225	254	563	140,212	25	98,037	27,971	266,808
26-Jun	225	251	724	135,417	83	103,552	24,565	264,341
27-Jun	137	160	212	60,408	45	43,021	11,142	114,828
28-Jun	95	101	133	41,660	69	26,171	7,742	75,775
29-Jun	35	38	27	14,285	59	10,186	1,749	26,306
30-Jun	32	36	74	21,364	156	9,744	1,978	33,316
1-Jul	53	82	21	15,745	27	231	1,036	17,060
2-Jul	53	88	16	18,948	42	551	320	19,877
3-Jul	47	83	9	18,366	37	220	169	18,801
4-Jul	49	86	7	19,207	42	354	240	19,850
5-Jul	47	73	5	18,553	35	219	267	19,079
6-Jul	59	78	8	16,504	18	332	191	17,053
7-Jul	50	70	16	11,750	65	300	259	12,390
8-Jul	39	55	5	15,169	23	447	252	15,896
9-Jul	45	67	7	24,594	27	385	278	25,291
10-Jul	45	78	9	45,234	44	425	444	46,156
11-Jul	47	73	3	21,665	10	455	283	22,416
12-Jul	105	151	173	49,053	12,261	33,975	6,558	102,020
13-Jul	131	183	675	93,645	27,238	86,476	16,558	224,592
14-Jul	46	92	17	15,531	35	2,720	433	18,736
15-Jul	50	79	11	16,720	131	2,510	526	19,898
16-Jul	44	80	0	13,895	215	2,274	995	17,379
17-Jul	88	106	55	31,580	6,454	32,931	4,430	75,450
18-Jul	136	194	276	76,955	16,631	126,124	14,254	234,240
19-Jul ^a	*	*	*	*	*	*	*	*
20-Jul	5	5	1	3,148	53	425	104	3,731
21-Jul	4	4	0	2,633	86	425	160	3,304
22-Jul	4	4	0	1,868	121	315	308	2,612
23-Jul	5	5	0	2,330	87	300	178	2,895
24-Jul	7	7	1	2,148	864	983	1,338	5,334

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
25-Jul	8	9	0	2,171	1,297	1,753	1,193	6,414
26-Jul	8	8	3	2,219	1,150	1,728	1,351	6,451
27-Jul	6	7	0	1,883	1,137	1,468	1,484	5,972
28-Jul	5	5	0	1,097	287	654	861	2,899
29-Jul	5	5	0	836	614	2,004	1,510	4,964
30-Jul	12	12	2	598	333	82,820	1,468	85,221
31-Jul	6	6	0	329	313	13,156	1,334	15,132
1-Aug	5	6	0	511	692	12,500	1,401	15,104
2-Aug	37	45	0	1,320	1,263	268,630	11,623	282,836
3-Aug	36	43	2	1,777	1,353	255,219	24,958	283,309
4-Aug	45	46	0	1,787	1,240	222,487	20,459	245,973
5-Aug	36	43	0	1,440	640	124,418	26,218	152,716
6-Aug	17	18	0	126	24	62,358	25,446	87,954
7-Aug	17	18	0	103	57	97,306	26,140	123,606
8-Aug	19	20	0	155	251	94,121	19,871	114,398
9-Aug	13	13	0	39	60	83,738	14,411	98,248
10-Aug	8	10	0	7	42	54,218	15,245	69,512
11-Aug	8	9	0	55	8	11,607	9,421	21,091
12-Aug ^a	*	*	*	*	*	*	*	*
13-Aug ^a	*	*	*	*	*	*	*	*
14-Aug	9	9	0	203	60	62	23,185	23,510
15-Aug	22	26	1	2,224	6,053	478	568	9,324
16-Aug	36	56	7	5,835	5,767	523	1,293	13,425
17-Aug	35	59	4	6,302	3,427	738	1,209	11,680
18-Aug	28	40	6	4,727	2,192	210	707	7,842
19-Aug	31	51	0	6,544	2,839	1,453	708	11,544
20-Aug	23	35	0	2,895	3,910	54	536	7,395
21-Aug	29	38	0	3,638	3,755	64	573	8,030
22-Aug	25	33	0	2,422	1,650	37	330	4,439
23-Aug	21	25	0	1,476	1,044	10	112	2,642
24-Aug	19	25	6	1,594	1,187	1	80	2,868
25-Aug	11	12	0	2,023	1,013	0	10	3,046
26-Aug	8	9	1	847	305	0	19	1,172
27-Aug	5	5	0	687	195	0	14	896
28-Aug	6	6	0	1,488	263	0	24	1,775
29-Aug	12	12	3	1,762	982	0	12	2,759
30-Aug ^a	*	*	*	*	*	*	*	*
31-Aug	5	5	0	1,990	295	0	0	2,285
1-Sep	6	7	0	2,110	263	0	2	2,375
2-Sep ^a	*	*	*	*	*	*	*	*
3-Sep	10	10	0	6,085	265	0	2	6,352
4-Sep	8	8	0	6,112	401	0	0	6,513

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
5-Sep ^a	*	*	*	*	*	*	*	*
6-Sep ^a	*	*	*	*	*	*	*	*
7-Sep	9	9	0	4,656	244	0	0	4,900
8-Sep	6	6	0	771	64	0	0	835
9-Sep	6	6	0	3,419	106	0	0	3,525
10-Sep ^a	*	*	*	*	*	*	*	*
11-Sep ^a	*	*	*	*	*	*	*	*
12-Sep	7	7	2	2,324	26	0	0	2,352
13-Sep	4	4	0	1,836	71	0	0	1,907
14-Sep ^a	*	*	*	*	*	*	*	*
15-Sep ^a	*	*	*	*	*	*	*	*
Total	304	5,768	7,163	2,258,189	112,432	2,303,926	606,254	5,287,964

^a Confidentiality requirements prohibit releasing this information.

Appendix A.17. South Peninsula commercial purse seine salmon harvest by species and day, 1997.

Date	Permits	Landings	Number of Salmon						Total
			Chinook	Sockeye	Coho	Pink	Chum		
12-Jun ^a	*	*	*	*	*	*	*	*	*
15-Jun ^a	*	*	*	*	*	*	*	*	*
17-Jun ^a	*	*	*	*	*	*	*	*	*
18-Jun	59	59	235	38,595	3	17,315	14,042	70,190	
19-Jun	74	76	374	70,151	6	43,622	27,376	141,529	
20-Jun	55	55	319	47,634	2	31,175	14,032	93,162	
21-Jun	70	70	435	63,061	1	40,813	20,270	124,580	
22-Jun	47	49	200	40,998	2	37,451	20,287	98,938	
23-Jun	62	62	309	62,660	2	69,318	21,232	153,521	
24-Jun	55	55	268	40,312	3	70,057	15,169	125,809	
25-Jun	57	58	445	55,961	7	94,953	18,000	169,366	
26-Jun	62	62	554	58,380	11	100,678	16,733	176,356	
27-Jun	26	26	76	11,081	0	40,626	3,658	55,441	
28-Jun	22	23	48	8,594	4	25,305	3,778	37,729	
29-Jun	15	15	14	5,343	1	9,874	870	16,102	
30-Jun	11	11	65	8,733	8	9,391	1,372	19,569	
6-Jul ^a	*	*	*	*	*	*	*	*	
7-Jul ^a	*	*	*	*	*	*	*	*	
11-Jul	7	7	0	654	2	54	13	723	
14-Jul ^a	*	*	*	*	*	*	*	*	
15-Jul ^a	*	*	*	*	*	*	*	*	
16-Jul ^a	*	*	*	*	*	*	*	*	
17-Jul ^a	*	*	*	*	*	*	*	*	
20-Jul	28	28	158	18,737	10,337	29,946	4,880	64,058	
21-Jul	51	51	653	41,580	22,070	78,892	14,289	157,484	
22-Jul	4	4	15	2,222	9	1,566	80	3,892	
23-Jul	5	5	6	2,009	40	1,295	84	3,434	
25-Jul	30	30	55	13,144	2,855	27,227	2,511	45,792	
26-Jul	59	60	263	35,997	9,292	111,808	9,913	167,273	
10-Aug	6	6	0	33	85	82,107	622	82,847	
11-Aug ^a	*	*	*	*	*	*	*	*	
12-Aug ^a	*	*	*	*	*	*	*	*	
13-Aug	22	27	0	19	8	265,463	8,790	274,280	
14-Aug	25	28	1	543	286	247,280	21,159	269,269	
15-Aug	27	27	0	439	335	220,402	17,964	239,140	
16-Aug	21	22	0	436	356	123,431	24,881	149,104	
17-Aug	15	16	0	37	2	62,214	25,008	87,261	
18-Aug	17	18	0	103	57	97,306	26,140	123,606	

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
19-Aug	16	17	0	30	16	93,855	19,425	113,326
20-Aug	13	13	0	39	60	83,738	14,411	98,248
21-Aug	8	10	0	7	42	54,218	15,245	69,512
22-Aug	7	8	0	2	1	11,460	9,350	20,813
23-Aug	2	2	0	0	0	10,550	460	11,010
28-Aug	7	7	0	0	0	0	22,900	22,900
2-Sep ^a	*	*	*	*	*	*	*	*
3-Sep ^a	*	*	*	*	*	*	*	*
4-Sep ^a	*	*	*	*	*	*	*	*
5-Sep ^a	*	*	*	*	*	*	*	*
10-Sep ^a	*	*	*	*	*	*	*	*
Total	82	1,026	4,506	637,279	47,304	2,218,765	417,036	3,324,890

^a Confidentiality requirements prohibit releasing this information.

Appendix A.18. South Peninsula commercial drift gillnet salmon harvest by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
13-Jun	54	59	114	40,725	0	191	4,693	45,723
14-Jun	91	94	173	47,381	0	157	7,063	54,774
15-Jun	74	79	120	36,737	0	3	5,306	42,166
16-Jun	89	103	217	60,016	1	8	8,606	68,848
17-Jun	93	100	133	52,984	0	27	7,055	60,199
18-Jun	123	133	98	76,992	1	136	10,854	88,081
19-Jun	128	144	216	80,083	10	324	11,039	91,672
20-Jun	129	155	154	82,209	12	223	10,554	93,152
21-Jun	128	140	197	65,519	7	126	9,017	74,866
22-Jun	97	107	163	55,301	11	53	7,681	63,209
23-Jun	98	102	74	50,609	1	201	8,646	59,531
24-Jun	107	117	87	56,120	26	750	10,099	67,082
25-Jun	108	118	81	59,509	14	1,541	8,560	69,705
26-Jun	108	126	148	56,330	65	1,539	6,600	64,682
27-Jun	93	108	124	41,518	43	1,625	6,918	50,228
28-Jun	52	54	81	26,526	64	332	3,814	30,817
29-Jun	10	11	9	4,773	52	0	704	5,538
30-Jun	5	5	6	3,306	145	66	437	3,960
20-Jul	19	19	6	4,333	1,026	866	595	6,826
21-Jul	17	17	6	7,987	4,473	1,401	907	14,774
25-Jul	14	14	0	1,889	2,809	1,204	722	6,624
26-Jul	15	17	3	3,977	4,164	1,250	790	10,184
4-Aug ^a	*	*	*	*	*	*	*	*
5-Aug	4	5	0	1,111	1,198	605	904	3,818
6-Aug	4	4	0	517	844	975	926	3,262
7-Aug ^a	*	*	*	*	*	*	*	*
8-Aug ^a	*	*	*	*	*	*	*	*
9-Aug	4	4	0	602	412	1,701	1,279	3,994
10-Aug	4	4	2	291	160	577	629	1,659
11-Aug ^a	*	*	*	*	*	*	*	*
12-Aug ^a	*	*	*	*	*	*	*	*
13-Aug	10	10	0	355	985	1,458	1,265	4,063
14-Aug	6	6	1	279	747	980	681	2,688
15-Aug	4	4	0	219	544	583	577	1,923
16-Aug ^a	*	*	*	*	*	*	*	*
Total	142	1,876	2,213	920,916	20,307	21,737	140,924	1,106,097

^a Confidentiality requirements prohibit releasing this information.

Appendix A.19. South Peninsula commercial set gillnet salmon harvest by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
13-Jun ^a	*	*	*	*	*	*	*	*
14-Jun	4	4	12	1,572	0	0	153	1,737
15-Jun	4	4	9	2,545	0	0	622	3,176
16-Jun	4	4	10	2,551	0	0	288	2,849
17-Jun	4	5	4	3,037	0	3	980	4,024
18-Jun	59	73	21	14,086	3	342	1,511	15,963
19-Jun	60	91	26	20,996	0	507	1,853	23,382
20-Jun	61	93	22	29,502	4	255	2,183	31,966
21-Jun	52	77	36	20,682	2	160	1,741	22,621
22-Jun	42	60	12	13,754	1	151	685	14,603
23-Jun	51	72	16	17,601	1	532	1,660	19,810
24-Jun	59	88	15	17,422	24	634	1,688	19,783
25-Jun	60	78	37	24,742	4	1,543	1,411	27,737
26-Jun	55	63	22	20,707	7	1,335	1,232	23,303
27-Jun	18	26	12	7,809	2	770	566	9,159
28-Jun	21	24	4	6,540	1	534	150	7,229
29-Jun	10	12	4	4,169	6	312	175	4,666
30-Jun	16	20	3	9,325	3	287	169	9,787
6-Jul	51	80	21	15,674	26	210	185	16,116
7-Jul	52	87	15	18,843	42	549	315	19,764
8-Jul	47	83	9	18,366	37	220	169	18,801
9-Jul	49	86	7	19,207	42	354	240	19,850
10-Jul	47	73	5	18,553	35	219	267	19,079
11-Jul	52	71	8	15,850	16	278	178	16,330
12-Jul	50	70	16	11,750	65	300	259	12,390
14-Jul	38	54	5	15,058	19	433	244	15,759
15-Jul	44	66	5	23,794	27	326	273	24,425
16-Jul	44	77	9	41,737	44	365	412	42,567
17-Jul	45	71	2	20,636	9	360	253	21,260
20-Jul	58	104	9	25,983	898	3,163	1,083	31,136
21-Jul	63	115	16	44,078	695	6,183	1,362	52,334
22-Jul	42	88	2	13,309	26	1,154	353	14,844
23-Jul	45	74	5	14,711	91	1,215	442	16,464
24-Jul	44	80	0	13,895	215	2,274	995	17,379
25-Jul	44	62	0	16,547	790	4,500	1,197	23,034
26-Jul	62	117	10	36,981	3,175	13,066	3,551	56,783
30-Jul ^a	*	*	*	*	*	*	*	*
31-Jul	5	5	1	3,148	53	425	104	3,731
1-Aug	4	4	0	2,633	86	425	160	3,304
2-Aug	4	4	0	1,868	121	315	308	2,612
3-Aug	5	5	0	2,330	87	300	178	2,895

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
4-Aug	4	4	1	1,327	104	733	904	3,069
5-Aug	4	4	0	1,060	99	1,148	289	2,596
6-Aug	4	4	3	1,702	306	753	425	3,189
7-Aug ^a	*	*	*	*	*	*	*	*
8-Aug ^a	*	*	*	*	*	*	*	*
9-Aug ^a	*	*	*	*	*	*	*	*
10-Aug ^a	*	*	*	*	*	*	*	*
11-Aug ^a	*	*	*	*	*	*	*	*
12-Aug ^a	*	*	*	*	*	*	*	*
13-Aug	5	8	0	946	270	1,709	1,568	4,493
14-Aug	5	9	0	955	320	6,959	3,118	11,352
15-Aug	14	15	0	1,129	361	1,502	1,918	4,910
16-Aug	12	18	0	955	192	712	1,116	2,975
17-Aug ^a	*	*	*	*	*	*	*	*
19-Aug ^a	*	*	*	*	*	*	*	*
22-Aug ^a	*	*	*	*	*	*	*	*
25-Aug ^a	*	*	*	*	*	*	*	*
28-Aug ^a	*	*	*	*	*	*	*	*
1-Sep	22	26	1	2,224	6,053	478	568	9,324
2-Sep	35	55	1	5,765	5,385	523	1,236	12,910
3-Sep	34	58	4	6,302	3,392	738	1,203	11,639
4-Sep	27	39	6	4,355	1,753	113	687	6,914
5-Sep	30	50	0	4,956	2,378	189	586	8,109
8-Sep	23	35	0	2,895	3,910	54	536	7,395
9-Sep	29	38	0	3,638	3,755	64	573	8,030
10-Sep	24	32	0	2,160	1,584	37	310	4,091
11-Sep	21	25	0	1,476	1,044	10	112	2,642
12-Sep	19	25	6	1,594	1,187	1	80	2,868
15-Sep	11	12	0	2,023	1,013	0	10	3,046
16-Sep	8	9	1	847	305	0	19	1,172
17-Sep	5	5	0	687	195	0	14	896
18-Sep	6	6	0	1,488	263	0	24	1,775
19-Sep	12	12	3	1,762	982	0	12	2,759
22-Sep ^a	*	*	*	*	*	*	*	*
23-Sep	5	5	0	1,990	295	0	0	2,285
24-Sep	6	7	0	2,110	263	0	2	2,375
25-Sep ^a	*	*	*	*	*	*	*	*
26-Sep	10	10	0	6,085	265	0	2	6,352
29-Sep	8	8	0	6,112	401	0	0	6,513
30-Sep ^a	*	*	*	*	*	*	*	*
1-Oct ^a	*	*	*	*	*	*	*	*

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
2-Oct	9	9	0	4,656	244	0	0	4,900
3-Oct	6	6	0	771	64	0	0	835
6-Oct	6	6	0	3,419	106	0	0	3,525
7-Oct ^a	*	*	*	*	*	*	*	*
8-Oct ^a	*	*	*	*	*	*	*	*
9-Oct	7	7	2	2,324	26	0	0	2,352
10-Oct	4	4	0	1,836	71	0	0	1,907
13-Oct ^a	*	*	*	*	*	*	*	*
17-Oct ^a	*	*	*	*	*	*	*	*
Total	82	2,866	444	699,994	44,821	63,424	48,294	856,977

^a Confidentiality requirements prohibit releasing this information.

Appendix A.20. South Peninsula commercial salmon harvest by species, district, and gear, 1997.

	Number of Salmon					Total	Percent of Harvest
	Chinook	Sockeye	Coho	Pink	Chum		
SOUTHEASTERN DISTRICT							
Seine	3,777	419,701	40,985	504,255	147,075	1,115,793	64
Set gillnet	260	544,600	26,580	37,933	25,554	634,927	36
Total	4,037	964,301	67,565	542,188	172,629	1,750,720	100
SOUTH CENTRAL DISTRICT							
Seine	30	28,106	3,967	550,918	51,907	634,928	96
Set gillnet	15	14,886	473	8,961	3,143	27,478	4
Total	45	42,992	4,440	559,879	55,050	662,406	100
SOUTHWESTERN DISTRICT							
Seine	481	141,473	2,350	1,102,054	186,334	1,432,692	76
Drift gillnet	434	206,739	16,754	17,210	38,333	279,470	15
Set gillnet	136	126,867	17,768	16,528	16,247	177,546	9
Total	1,051	475,079	36,872	1,135,792	240,914	1,889,708	100
UNIMAK DISTRICT							
Seine	218	47,999	2	61,538	31,720	141,477	14
Drift gillnet	1,779	714,177	3,553	4,527	102,591	826,627	84
Set gillnet	33	13,641	0	2	3,350	17,026	2
Total	2,030	775,817	3,555	66,067	137,661	985,130	100
SOUTH PENINSULA TOTAL							
Seine	4,506	637,279	47,304	2,218,765	417,036	3,324,890	63
Drift gillnet	2,213	920,916	20,307	21,737	140,924	1,106,097	21
Set gillnet	444	699,994	44,821	63,424	48,294	856,977	16
Total	7,163	2,258,189	112,432	2,303,926	606,254	5,287,964	100

Appendix A.21. South Peninsula salmon runs by species, 1962-97^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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Appendix A.21. (page 3 of 4)

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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Appendix A.21. (page 4 of 4)

Year	Chinook	Sockeye	Coho	Pink	Chum
1997 Catch	7,780	2,281,566	116,136	2,321,371	627,996
Escapement	0	104,440	-	5,143,275	809,050
Total	7,780	2,386,006	116,136	7,464,646	1,437,046

^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, 1962-97.^a

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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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Appendix A.22. (page 2 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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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Appendix A.22. (page 3 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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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Appendix A.22. (page 4 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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			
1997	Catch	839,656	869,597	1,709,253	336,238	275,880	612,118
	Escapement	4,021,375	1,221,900	5,243,275			
	Total	4,861,031	2,091,497	6,952,528			

^a Salmon numbers exclude test fish and subsistence harvests.

Appendix A.23. South Peninsula chum salmon runs, 1962-97.^a

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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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Appendix A.23. (page 2 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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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Appendix A.23. (page 3 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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	1,079,482	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	1,098,618	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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Appendix A.23. (page 4 of 4)

Year		Not including June Migrants			June Migrants		Total June Migrants
		Southeastern and South Central Districts	Southwestern and Unimak Districts	South Peninsula Totals	South Unimak	Shumagin	
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			
1997	Catch	106,622	182,559	289,181	206,698	132,117	338,815
	Escapement	542,050	267,000	809,050			
	Total	648,672	449,559	1,098,231			

³Salmon numbers exclude test fish and subsistence harvests.

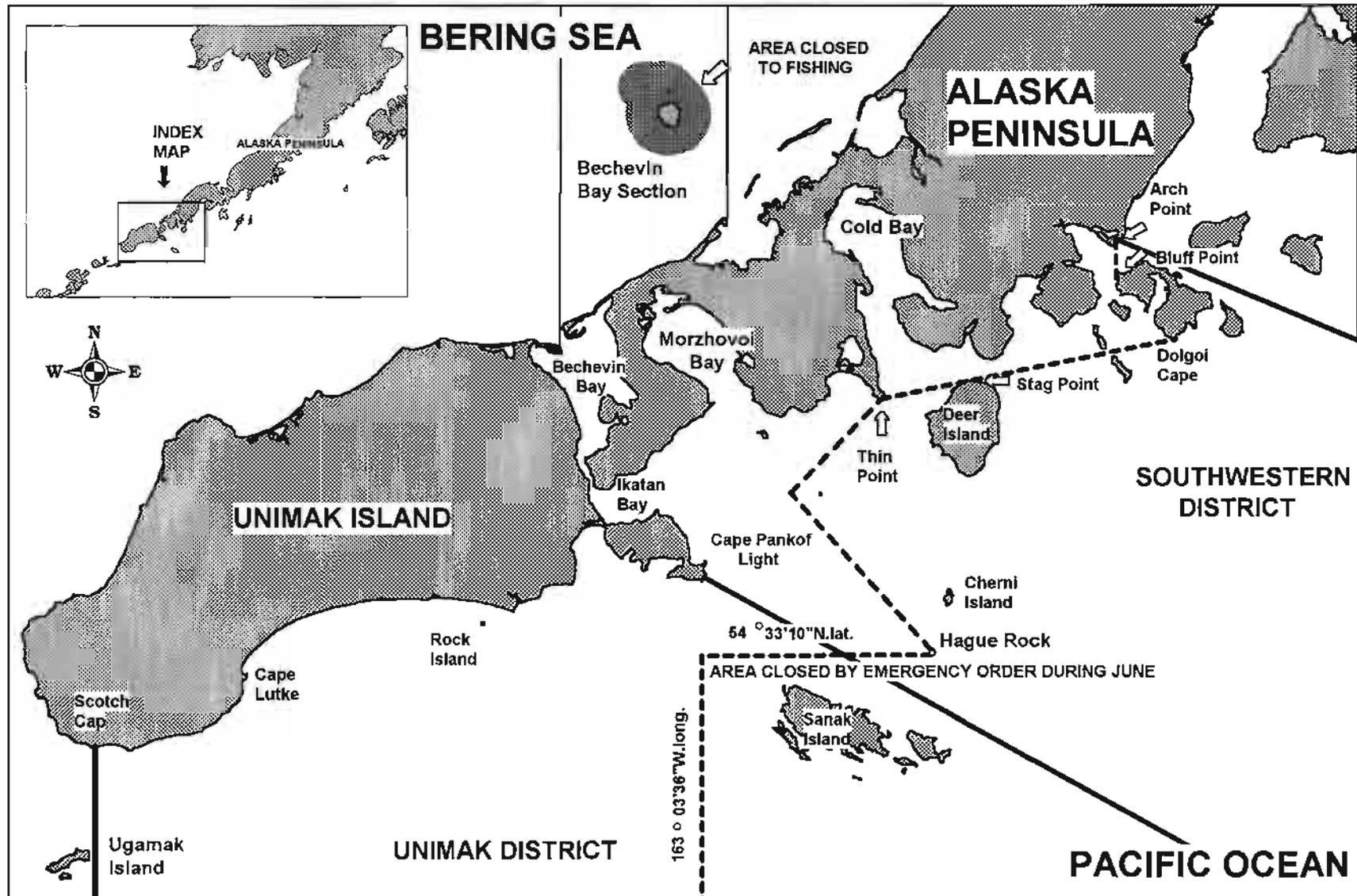
Appendix B.1. South Unimak and Shumagin Islands June commercial sockeye and chum salmon harvest, all gear combined, 1911-97.

Year	Sockeye			Chum		
	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	566,000			
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			

-Continued-

Appendix B.1. (page 2 of 2)

Year	Sockeye			Chum		
	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
1997	1,179,179	449,002	1,628,181	196,016	126,309	322,325
1978-97 Average						
	1,240,455	356,800	1,597,255	382,142	106,805	488,947
1988-97 Average						
	1,274,538	430,637	1,705,175	374,619	128,732	503,351



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, 1962-1997.

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	<u>15%</u>	<u>22%</u>						
	100%	100%						
1990-91	<p>The chum ceiling was increased from 500,000 to 600,000.</p> <p>The "Window Regulations" implemented in 1984 to limit the amount of fishing time that could be allowed were deleted.</p> <p>The season was delayed until June 13 and the time period sockeye allocations for both fisheries were changed as follow:</p> <table> <tr> <td>June 13-18</td> <td>35%</td> </tr> <tr> <td>June 19-25</td> <td>45%</td> </tr> <tr> <td>June 26-30</td> <td>20%</td> </tr> </table> <p>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.</p> <p>The gear depth on gillnets along the South Peninsula was limited to no more than 90 meshes.</p> <p>Seine leads may not exceed 150 fathoms for the entire Alaska Peninsula.</p>		June 13-18	35%	June 19-25	45%	June 26-30	20%
June 13-18	35%							
June 19-25	45%							
June 26-30	20%							
1992-93	<p>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.</p>							
1994	<p>Sockeye time period allocations eliminated. ADF&G given flexibility to open fishery prior to June 13 if sockeye to chum ratios are favorable.</p>							

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Dates	South Unimak	Shumagin Islands
1995-97	<p>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.</p> <p>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.</p> <p>The fisheries could not be extended into July regardless of weather during late June.</p> <p>Fishery cannot begin prior to June 11.</p> <p>Removed mesh size requirements for gillnets.</p>	

Appendix B.4. South Unimak and Shumagin Islands June fisheries commercial salmon harvest by species, all gear combined, 1970-97.

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
1997	292	6,335	5,811	1,628,181	560	605,937	322,325	2,562,814
1978-97 Average								
	285	2,313	5,679	1,597,255	1,449	561,215	488,947	2,654,545
1988-97 Average								
	317	2,747	6,585	1,705,175	2,291	589,183	503,351	2,806,585

Appendix B.5. South Unimak June commercial salmon harvest by species, all gear combined, 1970-97.

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
1997	225	2,299	3,041	1,179,179	501	332,262	196,016	1,710,999
1978-97 Average								
	232	1,661	3,648	1,240,455	1,111	369,604	382,142	1,996,960
1988-97 Average								
	249	1,783	3,947	1,274,538	1,913	405,497	374,619	2,060,514

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

Appendix B.6 Shumagin Islands June commercial salmon harvest by species, all gear combined, 1970-97.

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
1997	99	875	2,770	449,002	59	273,675	126,309	851,815
1978-97 Average								
	85	495	2,031	356,800	337	191,612	106,805	657,585
1988-97 Average								
	102	648	2,638	430,637	378	183,686	128,732	746,071

Appendix B.7. South Unimak and Shumagin Islands June fisheries, sockeye allocations vs. actual harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-97.

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	3,130,000	1,028,970	29,588,297	30,679,270	10.2	3.35	2,546,000
1997 ^e	2,246,000	1,628,181	12,309,000	13,937,181	16.2	11.68	1,157,000

^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 harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-97.

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 ^c
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	2,564,000	572,495	29,588,297	30,160,792	8.01	1.9	2,050,934
1997 ^e	1,840,000	1,179,179	12,309,000	13,937,181	13.20	8.46	948,000

^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, 1975-97.

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	659,000	653,831	44,266,217	46,371,538	1.42	1.41	696,000
1996	566,000	456,475	29,588,297	30,044,772	1.88	1.52	451,000
1997 ^e	406,000	449,002	12,309,000	13,937,181	2.91	3.22	209,000

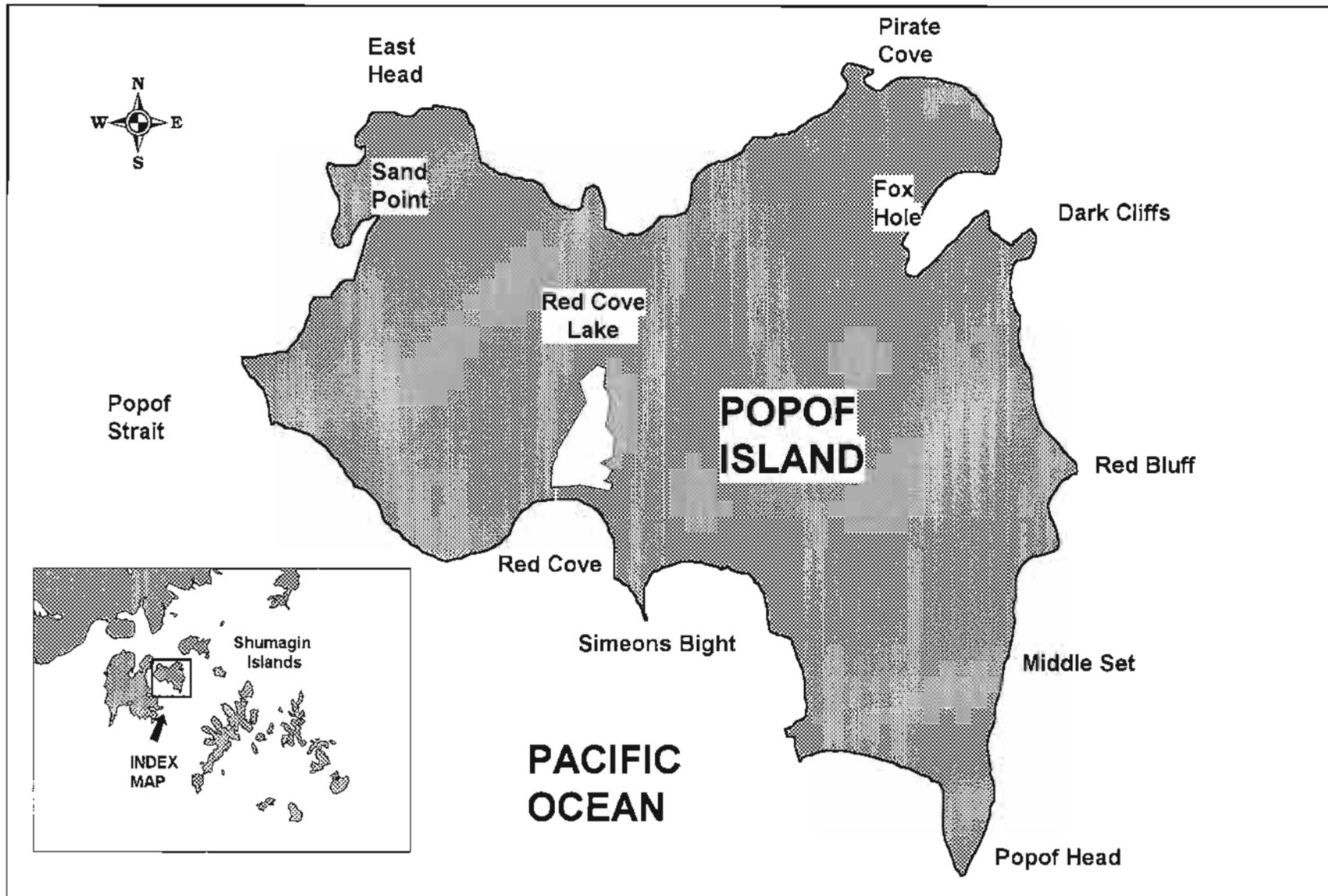
^a Salmon numbers exclude test fish harvests.

^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 defined.

Appendix B.11. South Unimak and Shumagin Islands June fisheries,
number of fishing days and hours by year, 1975- 97^a.

Year	South Unimak		Shumagin Islands	
	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
1997	18	418	14	237
Average 1988-97	11.8	237.1	9.7	180.9

^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. This allows fishing time allowed but not utilized due to price disputes.

^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, 1997.

Date/ Location	Number of sets	Number of Salmon					Total Salmon	Ratio Sockeye to 1 Chum	
		Chinook	Sockeye	Coho	Pink	Chum			
<i>8-Jun</i>									
Cape Pankof	5	149	3,051	0	948	1,838	5,986	1.66	
Cape Lutke	10	94	3,077	0	752	1,915	5,838	1.61	
All Locations, 8-Jun	15	243	6,128	0	1,700	3,753	11,824	1.63	
	Average Per Set	16.2	408.5	0.0	113.3	250.2			
	Catch Composition by %	2.06%	51.83%	0.00%	14.38%	31.74%			
<i>9-Jun</i>									
Cape Lazaref	5	0	158	0	145	424	727	0.37	
Cape Lutke	10	60	3,131	3	998	3,481	7,673	0.90	
All Locations, 9-Jun	15	60	3,289	3	1,143	3,905	8,400	0.84	
	Average Per Set	4.0	219.3	0.2	76.2	260.3			
	Catch Composition by %	0.71%	39.15%	0.04%	13.61%	46.49%			
<i>10-Jun</i>									
Cape Pankof	5	25	2,115	0	817	1,473	4,430	1.44	
Cape Lazaref	4	2	122	0	97	430	651	0.28	
Cape Aksit	1	0	24	0	11	19	54	1.26	
Cape Lutke	5	5	244	0	88	846	1,183	0.29	
All Locations, 10-Jun	15	0	32	2505	0	1013	2768	6318	0.90
	Average Per Set	2.1	167.0	0.0	67.5	184.5			
	Catch Composition by %	0.51%	39.65%	0.00%	16.03%	43.81%			
<i>11-Jun</i>									
Cape Pankof	2	21	343	0	330	1,110	1,804	0.31	
Ikatan Point	3	6	1,087	0	202	239	1,534	4.55	
Bird Island	4	3	76	0	103	239	421	0.32	
Cape Aksit/ Otter Cove	3	0	35	0	32	115	182	0.30	
All Locations, June	12	30	1541	0	667	1703	3,941	0.90	
	Average Per Set	2.5	128.4	0.0	55.6	141.9			
	Catch Composition by %	0.76%	39.10%	0.00%	16.92%	43.21%			
<i>12-Jun</i>									
Ikatan Point	4	13	558	0	174	230	745	2.43	
Cape Pankof	1	1	2	0	13	32	16	0.06	
Pattie Point/ Cape Lazaref	4	1	166	0	123	74	290	2.24	
Cape Aksit/ Westward	4	0	101	0	91	111	192	0.91	
All locations, June	13	15	827	0	401	447	1,690	1.85	
	Average Per Set	1.2	63.6	0.0	30.8	34.4			
	Catch Composition by %	0.89%	48.93%	0.00%	23.73%	26.45%			

^a Strong NE winds limited test fishing efforts on June 11th and 12th

Appendix B.13. Shumagin Islands Section June test fishery salmon catches by date and species, 1997.

Date	Number of Sets	Number of Adult Salmon					Total	Sockeye to Chum Ratio
		Chinook	Sockeye	Coho	Pink	Chum		
5-Jun	5	3	182	0	37	65	287	2.80 to 1.00
6-Jun	5	20	589	0	33	588	1,230	1.00 to 1.00
7-Jun	5	18	156	0	35	399	608	0.39 to 1.00
8-Jun	5	32	481	0	42	456	1,011	1.05 to 1.00
9-Jun	5	10	467	0	49	459	985	1.02 to 1.00
10-Jun	5	13	557	0	52	881	1,503	0.63 to 1.00
11-Jun	5	4	705	0	200	301	1,210	2.34 to 1.00
13-Jun	5	10	996	0	277	600	1,883	1.66 to 1.00
15-Jun	5	13	1,717	0	607	721	3,058	2.38 to 1.00
17-Jun	6	22	2,952	0	873	1,344	5,191	2.20 to 1.00
Total	51	145	8,802	0	2,205	5,814	16,966	1.51 to 1.00

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 daily harvests, all gear combined, 1997.

Date	South Unimak		Shumagin Islands		Combined	
	Sockeye	Chum	Sockeye	Chum	Sockeye	Chum
June 1-11	Closed to commercial salmon fishing.					
12 ^a			576	171	576	171
13 ^a	41,889	4,888	Fishery Closed		41,889	4,888
14 ^a	48,953	7,216	0	0	48,953	7,216
15 ^a	39,282	5,928	668	291	39,950	6,219
16 ^a	62,567	8,894	0	0	62,567	8,894
17 ^a	56,021	8,035	592	136	56,613	8,171
18	94,816	15,762	34,857	10,645	129,673	26,407
19	108,535	18,956	62,695	21,312	171,230	40,268
20	114,720	17,781	44,625	8,988	159,345	26,769
21	84,391	13,041	64,871	17,987	149,262	31,028
22	75,544	18,090	34,509	10,563	110,053	28,653
23	72,959	15,513	57,911	16,025	130,870	31,538
24	79,606	16,357	34,248	10,599	113,854	26,956
25	85,973	12,724	54,239	15,247	140,212	27,971
26	76,206	10,220	59,211	14,345	135,417	24,565
27	60,408	11,142	Fishery Closed		60,408	11,142
28	41,660	7,742	"	"	41,660	7,742
29	14,285	1,749	"	"	14,285	1,749
30	21,364	1,978	"	"	21,364	1,978
Total	1,179,179	196,016	449,002	126,309	1,628,181	322,325

^a Fishermen on strike.

Appendix B.15. South Unimak June commercial salmon harvest, all gear combined, by day, 1997.

Catch Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
13-Jun	55	60	120	41889	0	191	4888	47,088
14-Jun	95	98	185	48953	0	157	7216	56,511
15-Jun	78	83	129	39282	0	3	5928	45,342
16-Jun	93	107	227	62567	1	8	8894	71,697
17-Jun	97	105	137	56021	0	30	8035	64,223
18-Jun	165	175	152	94816	3	6683	15762	117,416
19-Jun	176	196	302	108535	14	19783	18956	147,590
20-Jun	170	199	260	114720	15	22600	17781	155,376
21-Jun	166	179	275	84391	7	19651	13041	117,365
22-Jun	128	141	247	75544	11	23539	18090	117,431
23-Jun	134	138	103	72959	2	26935	15513	115,512
24-Jun	147	162	113	79606	27	45125	16357	141,228
25-Jun	148	160	139	85973	16	40637	12724	139,489
26-Jun	141	161	206	76206	76	37798	10220	124,506
27-Jun	137	160	212	60408	45	43021	11142	114,828
28-Jun	95	101	133	41660	69	26171	7742	75,775
29-Jun	35	38	27	14285	59	10186	1749	26,306
30-Jun	32	36	74	21364	156	9744	1978	33,316
Total	225	2,299	3,041	1,179,179	501	332,262	196,016	1,710,999

Appendix B.16. South Unimak June commercial purse seine salmon harvest by day,1997.

Catch Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
18-Jun	27	27	42	11854	2	6538	4046	22,482
19-Jun	32	34	75	20867	4	19448	7211	47,605
20-Jun	26	26	96	20853	1	22353	6334	49,637
21-Jun	25	25	53	12090	0	19501	3290	34,934
22-Jun	21	22	77	15590	0	23431	10164	49,262
23-Jun	24	24	26	17234	1	26659	6216	50,136
24-Jun	24	24	21	15939	1	44284	5683	65,928
25-Jun	23	23	48	14386	0	38578	3470	56,482
26-Jun	21	21	42	11972	6	35431	2907	50,358
27-Jun	26	26	76	11081	0	40626	3658	55,441
28-Jun	22	23	48	8594	4	25305	3778	37,729
29-Jun	15	15	14	5343	1	9874	870	16,102
30-Jun	11	11	65	8733	8	9391	1372	19,569
Total	52	301	683	174,536	28	321,419	58,999	555,665

Appendix B.17. South Unimak June commercial drift gillnet harvest by day, 1997.

Catch Date	Number of Salmon							Total
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	
13-Jun	54	59	114	40,725	0	191	4,693	45,723
14-Jun	91	94	173	47,381	0	157	7,063	54,774
15-Jun	74	79	120	36,737	0	3	5,306	42,166
16-Jun	89	103	217	60,016	1	8	8,606	68,848
17-Jun	93	100	133	52,984	0	27	7,055	60,199
18-Jun	123	133	98	76,992	1	136	10,854	88,081
19-Jun	128	144	216	80,083	10	324	11,039	91,672
20-Jun	129	155	154	82,209	12	223	10,554	93,152
21-Jun	128	140	197	65,519	7	126	9,017	74,866
22-Jun	97	107	163	55,301	11	53	7,681	63,209
23-Jun	98	102	74	50,609	1	201	8,646	59,531
24-Jun	107	117	87	56,120	26	750	10,099	67,082
25-Jun	108	118	81	59,509	14	1,541	8,560	69,705
26-Jun	108	126	148	56,330	65	1,539	6,600	64,682
27-Jun	93	108	124	41,518	43	1,625	6,918	50,228
28-Jun	52	54	81	26,526	64	332	3,814	30,817
29-Jun	10	11	9	4,773	52	0	704	5,538
30-Jun	5	5	6	3,306	145	66	437	3,960
Total	142	1,755	2,195	896,638	452	7,302	127,646	1,034,233

Appendix B.18. South Unimak June commercial set gillnet salmon harvest by day, 1997.

Catch Date	Number of Salmon							Total
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	
13-Jun ^a	*	*	*	*	*	*	*	*
14-Jun	4	4	12	1572	0	0	153	1,737
15-Jun	4	4	9	2545	0	0	622	3,176
16-Jun	4	4	10	2551	0	0	288	2,849
17-Jun	4	5	4	3037	0	3	980	4,024
18-Jun	15	15	12	5970	0	9	862	6,853
19-Jun	16	18	11	7585	0	11	706	8,313
20-Jun	15	18	10	11658	2	24	893	12,587
21-Jun	13	14	25	6782	0	24	734	7,565
22-Jun	10	12	7	4653	0	55	245	4,960
23-Jun	12	12	3	5116	0	75	651	5,845
24-Jun	16	21	5	7547	0	91	575	8,218
25-Jun	17	19	10	12078	2	518	694	13,302
26-Jun	12	14	16	7904	5	828	713	9,466
27-Jun	18	26	12	7809	2	770	566	9,159
28-Jun	21	24	4	6540	1	534	150	7,229
29-Jun	10	12	4	4169	6	312	175	4,666
30-Jun	16	20	3	9325	3	287	169	9,787
Total	31	243	163	108,005	21	3,541	9,371	121,101

^a Confidentiality requirements prohibit releasing this information.

Appendix B.19. Shumagin Islands Section commercial salmon harvest, all gear combined, by day, 1997.

Catch Date	Number of Salmon							
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
12-Jun ^a	*	*	*	*	*	*	*	*
15-Jun ^a	*	*	*	*	*	*	*	*
17-Jun ^a	*	*	*	*	*	*	*	*
18-Jun	76	90	202	34,857	4	11,110	10,645	56,818
19-Jun	86	115	314	62,695	2	24,670	21,312	108,993
20-Jun	75	104	235	44,625	3	9,053	8,988	62,904
21-Jun	84	108	393	64,871	3	21,448	17,987	104,702
22-Jun	58	75	128	34,509	3	14,116	10,563	59,319
23-Jun	77	98	296	57,911	2	43,116	16,025	117,350
24-Jun	74	98	257	34,248	26	26,316	10,599	71,446
25-Jun	78	94	424	54,239	9	57,400	15,247	127,319
26-Jun	84	90	518	59,211	7	65,754	14,345	139,835
12-Jul ^a	*	*	*	*	*	*	*	*
20-Jul	40	58	162	23,724	10,616	30,015	4,910	69,427
21-Jul	52	69	614	45,706	21,447	74,811	12,107	154,685
25-Jul	26	35	50	6,876	1,231	16,613	1,856	26,626
26-Jul	30	44	138	16,210	3,551	61,850	5,747	87,496
31-Jul ^a	*	*	*	*	*	*	*	*
3-Aug ^a	*	*	*	*	*	*	*	*
1-Sep	4	6	0	455	244	378	88	1,165
2-Sep	8	11	0	1,097	763	344	93	2,297
3-Sep	10	15	0	1,177	580	446	374	2,577
4-Sep	7	7	4	398	282	9	160	853
5-Sep	7	11	0	469	282	108	111	970
8-Sep	5	9	0	800	484	49	135	1,468
9-Sep	9	17	0	2,473	1,334	55	212	4,074
10-Sep	10	17	0	1,569	982	31	116	2,698
11-Sep	8	10	0	551	526	6	42	1,125
12-Sep	6	8	0	254	419	0	32	705
15-Sep ^a	*	*	*	*	*	*	*	*
16-Sep ^a	*	*	*	*	*	*	*	*
17-Sep	4	4	0	640	170	0	14	824
18-Sep ^a	*	*	*	*	*	*	*	*
19-Sep	9	9	3	1,019	369	0	12	1,403
23-Sep ^a	*	*	*	*	*	*	*	*
24-Sep	5	6	0	1,964	229	0	2	2,195
26-Sep ^a	*	*	*	*	*	*	*	*
29-Sep ^a	*	*	*	*	*	*	*	*
3-Oct ^a	*	*	*	*	*	*	*	*
Total	106	1,230	3,744	556,754	43,913	458,426	152,388	1,215,225
June		875	2,770	449,002	59	273,675	126,309	851,815

^a Confidentiality requirements prohibit releasing this information.

Appendix B.20. Shumagin Islands Section commercial purse seine salmon harvest by day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
12-Jun ^a	*	*	*	*	*	*	*	*
15-Jun ^a	*	*	*	*	*	*	*	*
17-Jun ^a	*	*	*	*	*	*	*	*
18-Jun	32	32	193	26,741	1	10,777	9,996	47,708
19-Jun	42	42	299	49,284	2	24,174	20,165	93,924
20-Jun	29	29	223	26,781	1	8,822	7,698	43,525
21-Jun	45	45	382	50,971	1	21,312	16,980	89,646
22-Jun	26	27	123	25,408	2	14,020	10,123	49,676
23-Jun	38	38	283	45,426	1	42,659	15,016	103,385
24-Jun	31	31	247	24,373	2	25,773	9,486	59,881
25-Jun	35	35	397	41,575	7	56,375	14,530	112,884
26-Jun	41	41	512	46,408	5	65,247	13,826	125,998
20-Jul	19	19	156	13,518	10,042	28,172	4,256	56,144
21-Jul	29	29	606	28,539	20,956	71,193	11,418	132,712
25-Jul	14	14	50	2,676	1,123	14,722	1,674	20,245
26-Jul	18	19	136	8,237	3,203	58,852	5,217	75,645
3-Sep ^a	*	*	*	*	*	*	*	*
Total	50	405	3,610	391,773	35,381	442,790	140,989	1,014,543
June Total		323	2,662	338,803	22	269,851	118,418	729,756

^a Confidentiality prohibits releasing this information.

Appendix B.21. Shumagin Islands Section commercial set gillnet salmon harvest by day,
1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
18-Jun	44	58	9	8,116	3	333	649	9,110
19-Jun	44	73	15	13,411	0	496	1,147	15,069
20-Jun	46	75	12	17,844	2	231	1,290	19,379
21-Jun	39	63	11	13,900	2	136	1,007	15,056
22-Jun	32	48	5	9,101	1	96	440	9,643
23-Jun	39	60	13	12,485	1	457	1,009	13,965
24-Jun	43	67	10	9,875	24	543	1,113	11,565
25-Jun	43	59	27	12,664	2	1,025	717	14,435
26-Jun	43	49	6	12,803	2	507	519	13,837
12-Jul ^a	*	*	*	*	*	*	*	*
20-Jul	21	39	6	10,206	574	1,843	654	13,283
21-Jul	23	40	8	17,167	491	3,618	689	21,973
25-Jul	12	21	0	4,200	108	1,891	182	6,381
26-Jul	12	25	2	7,973	348	2,998	530	11,851
31-Jul ^a	*	*	*	*	*	*	*	*
3-Aug ^a	*	*	*	*	*	*	*	*
1-Sep	4	6	0	455	244	378	88	1,165
2-Sep	8	11	0	1,097	763	344	93	2,297
3-Sep	9	14	0	1,177	545	446	368	2,536
4-Sep	7	7	4	398	282	9	160	853
5-Sep	7	11	0	469	282	108	111	970
8-Sep	5	9	0	800	484	49	135	1,468
9-Sep	9	17	0	2,473	1,334	55	212	4,074
10-Sep	10	17	0	1,569	982	31	116	2,698
11-Sep	8	10	0	551	526	6	42	1,125
12-Sep	6	8	0	254	419	0	32	705
15-Sep ^a	*	*	*	*	*	*	*	*
16-Sep ^a	*	*	*	*	*	*	*	*
17-Sep	4	4	0	640	170	0	14	824
18-Sep ^a	*	*	*	*	*	*	*	*
19-Sep	9	9	3	1,019	369	0	12	1,403
23-Sep ^a	*	*	*	*	*	*	*	*
24-Sep	5	6	0	1,964	229	0	2	2,195
26-Sep ^a	*	*	*	*	*	*	*	*
29-Sep ^a	*	*	*	*	*	*	*	*
3-Oct ^a	*	*	*	*	*	*	*	*
Total	56	825	134	164,981	8,532	15,636	11,399	200,682
June Total		552	108	110,199	37	3,824	7,891	122,059

^a Confidentiality requirements prohibit releasing this information.

Appendix B.22. South Unimak and Shumagin Islands June fisheries, composition of commercial sockeye and chum salmon harvest in percent by gear type, 1970-1997.

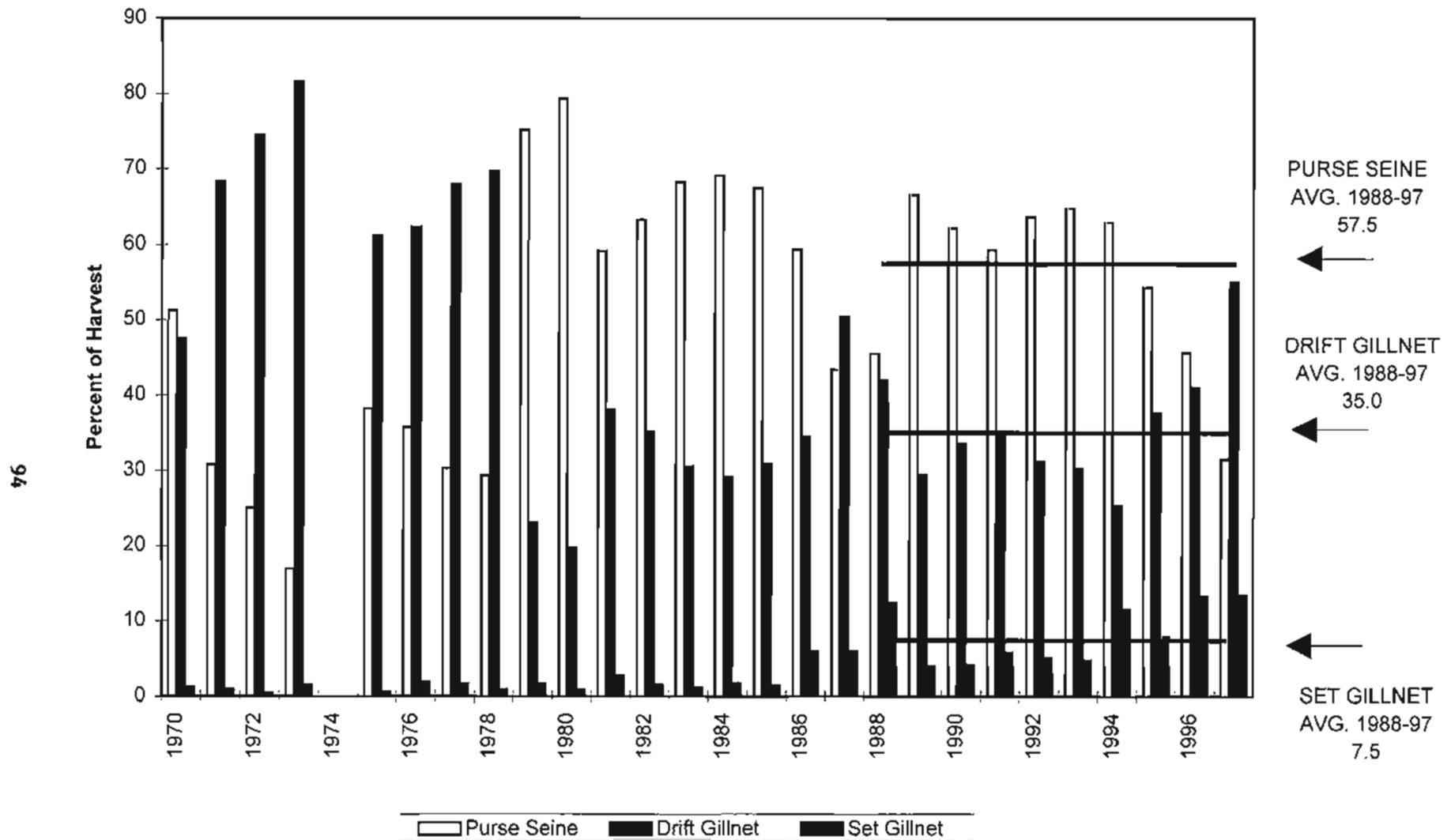
Year	South Unimak						Shumagin Islands			
	Sockeye			Chum			Sockeye		Chum	
	Purse Seine	Drift Gillnet	Set Gillnet	Purse Seine	Drift Gillnet	Set Gillnet	Purse Seine	Set Gillnet	Purse Seine	Set Gillnet
1970	47.5	52	0.5	31.8	68	0.2	92	8	94.1	5.9
1971	25.3	74.7	0	19.5	80.5	0	89.4	10.6	96.8	3.2
1972	12.5	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
1997 ^a	14.8	76.0	9.2	30.1	65.1	4.8	75.5	24.5	93.8	6.2
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
1990-97 Average	45.5	50.4	4.2	52.7	45.5	1.9	81.5	18.5	95.1	4.9

^a Gear depth limitations in effect.

Appendix B.23. South Unimak and Shumagin Islands June fisheries commercial sockeye salmon harvest by gear, 1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	^a 513,339	31.5	896,638	55.1	218,204	13.4	1,628,181
1978-97 Average							
	984,389	61.6	535,020	33.5	77,801	4.9	1,597,210
1988-97 Average							
	980,604	57.5	597,342	35.0	127,229	7.5	1,705,175

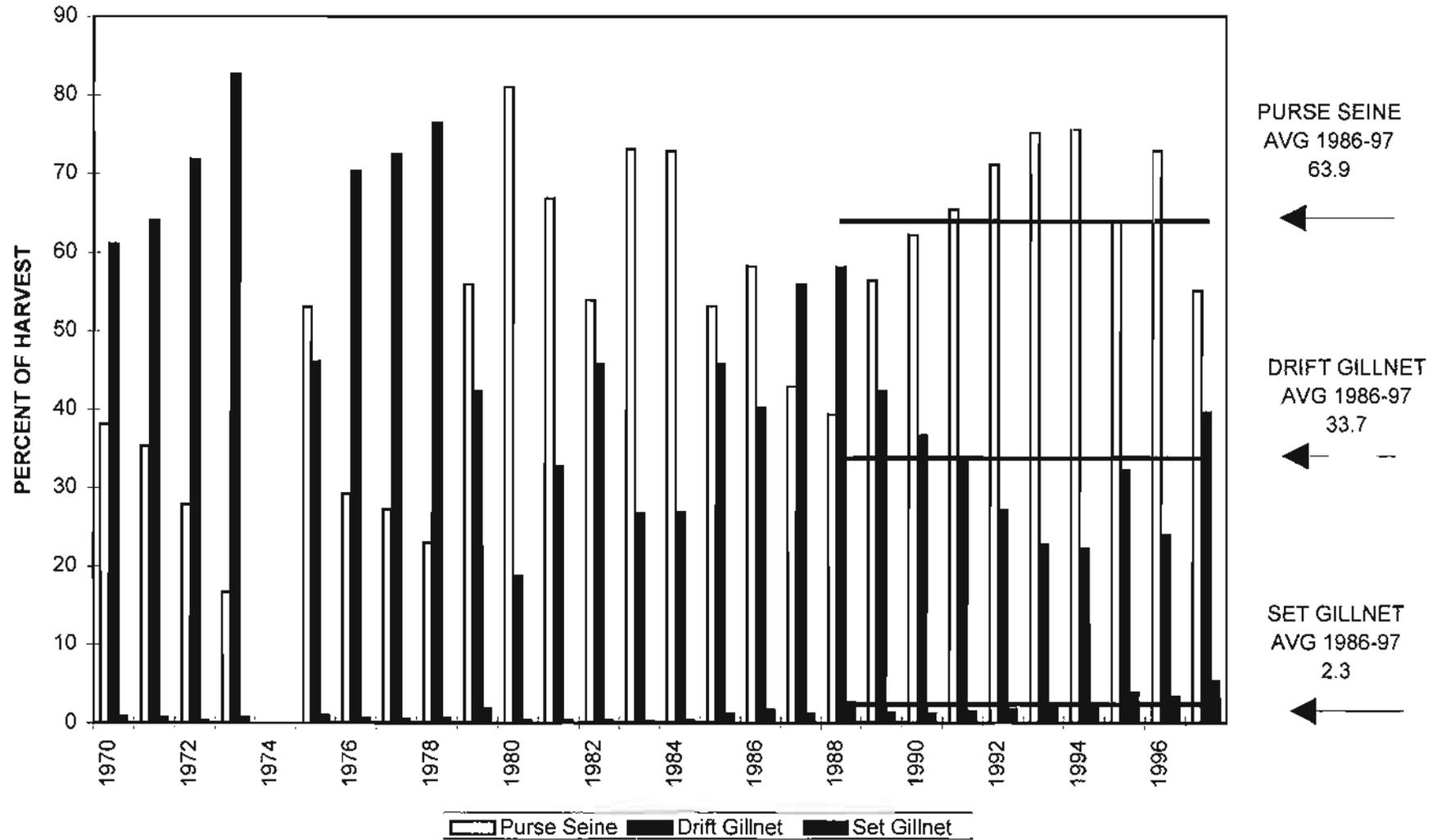
^a Gear depth limitations in effect.



Appendix B.24. South Unimak and Shumagin Islands June fisheries, composition of commercial sockeye salmon harvests in percent by gear type, 1970-97.

Appendix B.25. South Unimak and Shumagin Islands June fisheries commercial chum salmon harvest by gear, 1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	177,417	55.0	127,646	39.6	17,262	5.4	322,325
1978-97 Average							
	306,496	62.7	175,130	35.8	7,310	1.5	488,936
1986-95 Average							
	321,887	63.9	169,697	33.7	11,768	2.3	503,351



Appendix B. 26. South Unimak and Shumagin Islands June fisheries, composition of commercial chum salmon harvests by gear type, 1970-97.

Appendix B.27. South Unimak and Shumagin Islands June fisheries, sockeye to chum salmon ratios, from commercial harvests, all gear combined, 1960-97.

Year	South Unimak			Shumagin Islands			Total		
	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
1997	1,179,179	196,016	6.02	449,002	126,309	3.55	1,628,181	322,325	5.05
1978-97 Average									
	1,240,474	382,157	3.25	356,234	106,988	3.33	1,596,708	489,145	3.26
1988-97 Average									
	1,274,576	374,650	3.40	430,637	128,732	3.35	1,705,213	503,382	3.39

Appendix B.28. South Unimak and Shumagin Islands June fisheries, sockeye per chum salmon ratios, from commercial harvests, by gear type, 1970-97.

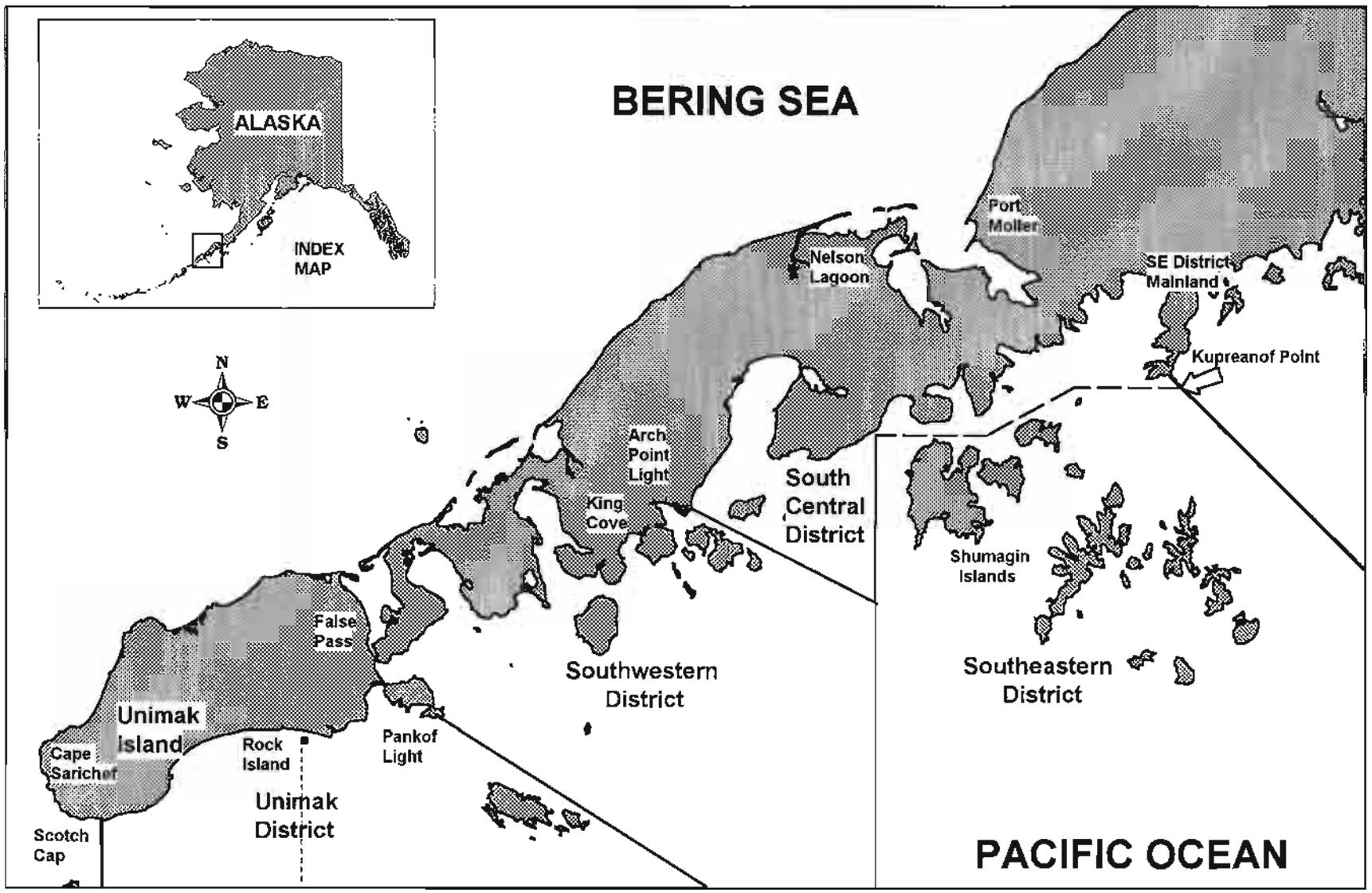
Year	South Unimak				Shumagin Islands		
	Purse Seine	Drift Gillnet	Set Gillnet	Total	Purse Seine	Set Gillnet	Total
1970	5.7	2.9	9.4	3.8	3	4.2	3.1
1971	1.4	1	0	1	0.3	0	0.4
1972	1.4	1	0.4	1	0.7	1.5	0.7
1973	1.8	1.2	4.4	1.3	0.9	2.2	1
1974	0	0	0	0	0	0	0
1975	2.3	3.2	0	2.9	1.4	0	1.4
1976	0.8	0.7	8.3	0.7	1	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
1997 ^a	3.0	7.0	11.5	6.0	2.9	14.0	3.6
1978-97 Average							
	4.6	3.7	15.4	3.9	3.7	11.8	4.0
1988-97 Average							
	3.2	4.2	10.5	3.8	3.5	12.3	3.9

^a Gear depth limitations in effect.

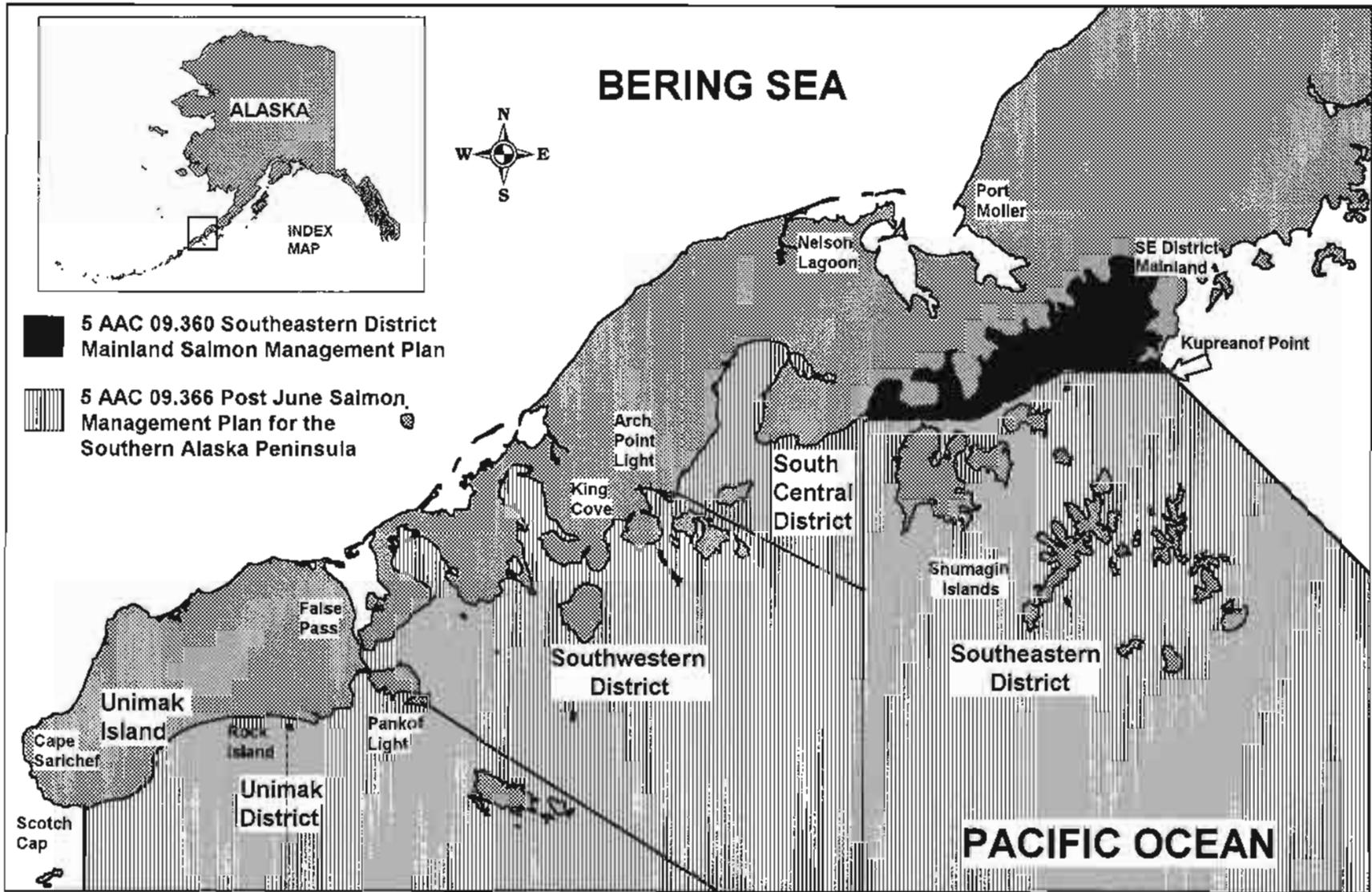
Appendix B.29. Number and types of commercial salmon gear in the South Unimak and Shumagin Islands Section waters during June, 1970-97.

Year	Gear			Total
	Purse Seine	Drift Gillnet	Set Gillnet	
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
1997	81	142	69	292
1978-97 Average	92.1	143.3	49.7	285.05
1988-97 Average	104.4	146.9	65.7	317

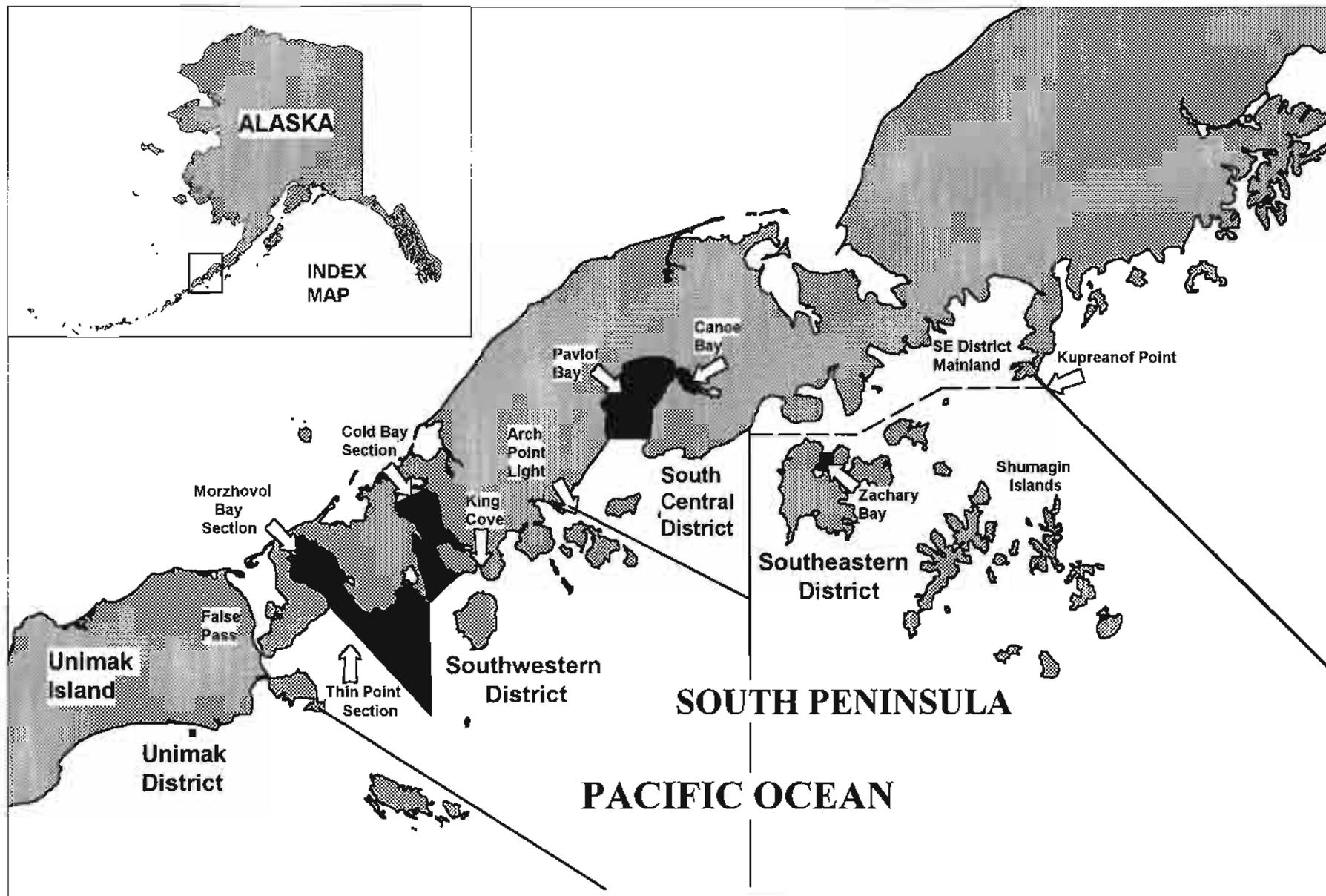
^a During the peak of the South Peninsula June fishery, (June 12-26), approximately 50 purse seine permit holders fish the Shumagin Islands Section fishery. During the occasions when the South Unimak fishery is open and the Shumagin Islands fishery is closed, nearly the entire purse seine fleet fishes 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 affected by the Southeastern District Mainland Salmon 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, 1997.

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Date	Number of Sets	Number of Adult Salmon						Immature Salmon								
		Chinook	Sockeye	Coho	Pink	Chum	Total	Number					Percent			
								Chinook	Sockeye	Coho	Chum	Total	Sockeye	Chum		
12-Jul	5	70	120	265	275	381	1,111	373	31	20	0	424	7.3	0.0		
	Avg/Set	14	24	53	55	76.2	222.2	74.6	6.2	4.0	0	84.8	7.3	0.0		
13-Jul	4	40	205	240	313	419	1,217	356	36	9	30	431	8.4	7.0		
	Avg/Set	10	51.25	60	78.25	104.8	304.25	89	9	2.25	7.5	107.75	8.4	7.0		
14-Jul	5	43	296	208	590	337	1,474	173	50	2	10	235	21.3	4.3		
	Avg/Set	8.6	59.2	41.6	118.0	67.4	294.8	34.6	10.0	0.4	2	47	21.3	4.3		
15-Jul	5	27	310	636	614	484	2,071	123	17	0	16	156	10.9	10.3		
	Avg/Set	5.4	62	127.2	122.8	96.8	414.2	24.6	3.4	0.0	3.2	31.2	10.9	10.3		
16-Jul	5	148	723	958	1,321	1,237	4,387	936	207	1	105	1,249	16.6	8.4		
	Avg/Set	29.6	144.6	191.6	264.2	247.4	877.4	187.2	41.4	0.2	21	249.8	16.6	8.4		
17-Jul	5	13	424	725	819	596	2,577	745	99	0	14	858	11.5	1.6		
	Avg/Set	2.6	84.8	145	163.8	119.2	515	149	19.8	0.0	2.8	171.6	11.5	1.6		
18-Jul	5	19	399	285	599	436	1,738	252	159	0	6	417	38.1	1.4		
	Avg/Set	3.8	79.8	57	119.8	87.2	348	50.4	31.8	0.0	1.2	83.4	38.1	1.4		
19-Jul	5	13	239	219	394	185	1,050	403	75	0	1	479	15.7	0.2		
	Avg/Set	2.6	47.8	43.8	78.8	37	210	80.6	15.0	0.0	0.2	95.8	15.7	0.2		
			Number of Adult Salmon						Immature Salmon							
	Number of Sets	Chinook	Sockeye	Coho	Pink	Chum	Total	Chinook	Sockeye	Coho	Chum	Total				
Total	39	373	2,716	3,536	4,925	4,075	15,625	3,361	674	32	182	4,249				

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, 1970-97.

Year	Number of Salmon							Total
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	
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
1997	168	2,594	1,352	630,008	111,872	1,697,989	283,929	2,725,150
Average 1978-97								
	205	3,438	3,582	542,588	262,722	6,102,915	888,747	7,800,554
Average 1988-97								
	223	3,782	3,583	713,424	307,837	7,152,022	828,951	9,005,817
Average 1978-92								
	207	3,446	4,004	521,634	277,093	5,728,901	919,953	7,451,586
Average 1993-97								
	198	3,414	2,316	605,449	219,609	7,224,956	795,129	8,847,459

Appendix C.6. South Peninsula post June commercial purse seine salmon harvest by species,
July 1-October 31, 1970-97.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	71	402	1,161	123,940	47,254	1,627,495	239,619	2,039,469
Average 1978-97								
	109	1,713	3,250	260,474	202,114	5,855,040	789,521	7,110,399
Average 1988-97								
	107	1,515	3,185	312,904	210,634	6,055,353	772,722	7,354,797
Average 1978-92								
	113	1,869	3,697	280,003	220,052	5,515,503	819,256	6,838,510
Average 1993-97								
	97	1,246	1,909	201,886	148,299	6,873,654	700,317	7,926,065

Appendix C.7. South Peninsula post June commercial drift gillnet salmon harvest, by species, July 1- October 31, 1970-97.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	24	121	18	24,278	19,855	14,435	13,278	71,864
Average 1978-97								
	33	216	66	28,690	28,209	36,599	23,409	116,973
Average 1988-97								
	42	296	88	42,368	43,610	52,062	30,832	168,960
Average 1978-92								
	35	240	74	32,046	29,627	39,490	24,929	126,165
Average 1993-97								
	25	142	43	18,623	23,956	27,927	18,847	89,396

Appendix C.8. South Peninsula post June commercial set gillnet salmon harvest, by species, July 1- October 31, 1970-97.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	73	2,071	173	481,790	44,763	56,059	31,032	613,817
Average 1978-97								
	64	1,509	266	253,425	32,399	211,276	75,817	573,182
Average 1988-97								
	76	1,978	382	360,665	48,794	307,339	82,063	799,242
Average 1978-92								
	59	1,337	233	209,586	27,414	173,909	75,768	486,911
Average 1993-97								
	76	2,025	365	384,940	47,354	323,375	75,965	831,998

Appendix C.9. South Peninsula post June commercial salmon harvest, all gear combined, July 1 - October 31, 1909-97.

Year	Number of Salmon					Total
	Chinook	Sockeye	Coho ^a	Pink	Chum	
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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Year	Number of Salmon					Total
	Chinook	Sockeye	Coho ^a	Pink	Chum	
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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Year	Number of Salmon					
	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
1997	1,352	630,008	111,872	1,697,989	283,929	2,725,150
Average 1978-97	3,582	542,588	262,722	6,102,915	888,747	7,800,554
Average 1988-97	3,583	713,424	307,837	7,152,022	828,951	9,005,817
Average 1978-92	4,004	521,634	277,093	5,728,901	919,953	7,451,586
Average 1993-97	2,316	605,449	219,609	7,224,956	795,129	8,847,459

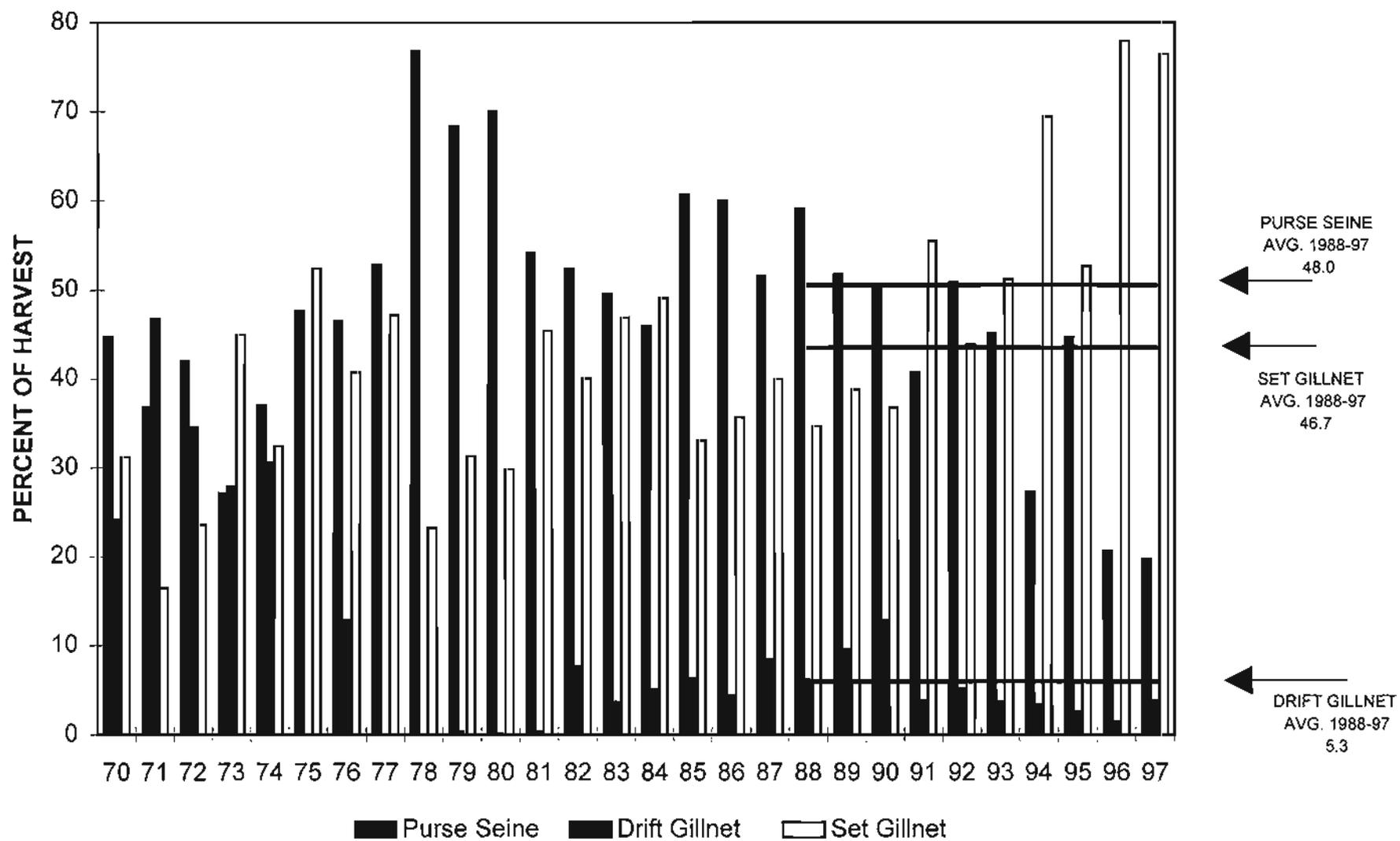
^a Assumes all South Peninsula coho are caught during post June fisheries and that the Aleutian Islands Management Area contribution is negligible.

Appendix C.10. South Peninsula post June commercial chinook salmon harvest by gear,
July 1- October 31,1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	1,161	85.9	18	1.3	173	12.8	1,352
Average 1978-97							
	3,250	90.7	66	1.9	266	7.4	3,582
Average 1988-97							
	3,113	86.9	88	2.5	382	10.7	3,583
Average 1978-92							
	3,697	92.3	74	1.8	233	5.8	4,004
Average 1993-97							
	1,909	82.4	43	1.9	365	15.7	2,316

Appendix C.11. South Peninsula post June commercial sockeye salmon harvest by gear,
July 1- October 31, 1970-97.

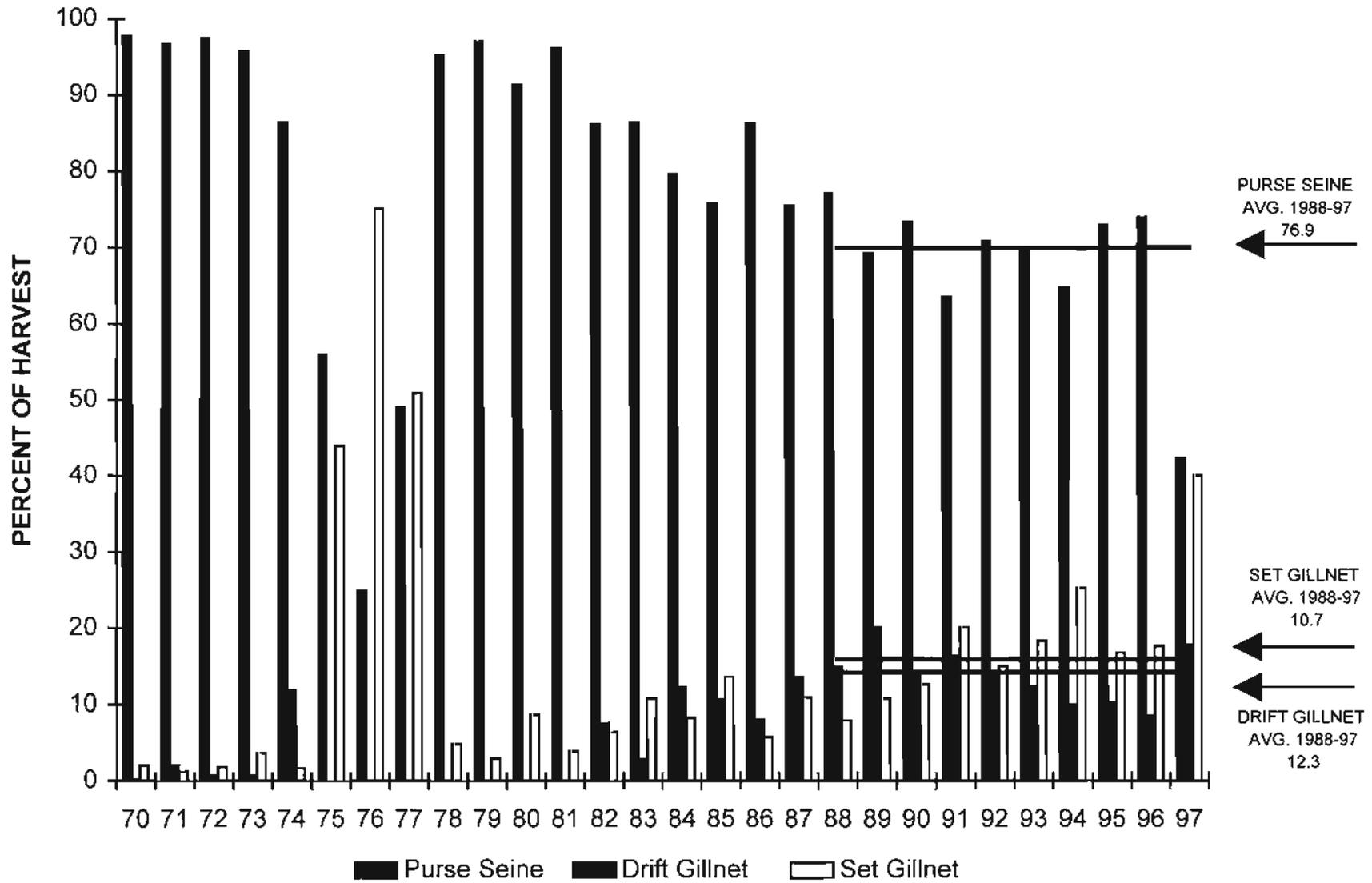
Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
1970	28,397	44.7	15,364	24.2	19,808	31.2	63,569
1971	82,826	36.8	105,274	46.8	37,062	16.5	225,162
1972	18,957	42.0	15,580	34.5	10,637	23.5	45,174
1973	15,796	27.1	16,246	27.9	26,165	45.0	58,207
1974	63,511	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
1997	123,940	19.7	24,278	3.9	481,790	76.5	630,008
Average 1978-97							
	260,474	48.0	28,690	5.3	253,425	46.7	542,588
Average 1988-97							
	310,392	43.5	42,368	5.9	360,665	50.6	713,424
Average 1978-92							
	280,003	53.7	32,046	6.1	209,586	40.2	521,634
Average 1993-97							
	201,886	33.3	18,623	3.1	384,940	63.6	605,449



Appendix C.12. South Peninsula post June commercial sockeye salmon harvest by gear, 1970-97.

Appendix C.13 South Peninsula post June commercial coho salmon harvest by gear, July 1-October 31, 1970-97.

Year	<u>Purse Seine</u>		<u>Drift Gillnet</u>		<u>Set Gillnet</u>		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	47,254	42.2	19,855	17.7	44,763	40.0	111,872
Average 1978-97							
	202,114	76.9	28,209	10.7	32,399	12.3	262,722
Average 1988-97							
	215,434	70.0	43,610	14.2	48,794	15.9	307,837
Average 1978-92							
	220,052	79.4	29,627	10.7	27,414	9.9	277,093
Average 1993-97							
	148,299	67.5	23,956	10.9	47,354	21.6	219,609



Appendix C.14. South Peninsula post June commercial coho salmon harvest by gear, 1970-97.

Appendix C.15. South Peninsula post June commercial pink salmon harvest by gear, July 1-
October 31, 1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	1,627,495	95.8	14,435	0.9	56,059	3.3	1,697,989
Average 1978-97							
	5,855,040	95.9	36,599	0.6	211,276	3.5	6,102,915
Average 1988-97							
	6,792,621	95.0	52,062	0.7	307,339	4.3	7,152,022
Average 1978-92							
	5,515,503	96.3	39,490	0.7	173,909	3.0	5,728,901
Average 1993-97							
	6,873,654	95.1	27,927	0.4	323,375	4.5	7,224,956

Appendix C.16. South Peninsula post June commercial chum salmon harvest by gear,
July 1-October 31, 1970-97.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
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
1997	239,619	84.4	13,278	4.7	31,032	10.9	283,929
Average 1978-97							
	789,521	88.8	23,409	2.6	75,817	8.5	888,747
Average 1988-97							
	716,056	86.4	30,832	3.7	82,063	9.9	828,951
Average 1978-92							
	819,256	89.1	24,929	2.7	75,768	8.2	919,953
Average 1993-97							
	700,317	88.1	18,847	2.4	75,965	9.6	795,129

Appendix C.17. Shumagin Islands Section post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-97.

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	79	355	974	107,752	43,854	184,751	26,079	363,410
Average 1978-97								
	106	1,109	2,513	204,222	176,694	1,794,307	248,948	2,426,683
Average 1988-97								
	118	1,226	2,488	256,375	183,545	2,161,689	227,809	2,831,907
Average 1978-92								
	107	1,180	2,850	215,978	190,247	1,681,305	276,301	2,366,681
Average 1993-97								
	105	895	1,502	168,951	136,035	2,133,313	166,888	2,606,689

Appendix C.18. Shumagin Islands Section post June commercial purse seine salmon harvest, by species, July 1-October 31, 1970-97^a.

Year	Permit	Landing	Number of Fish					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	40	82	948	52,970	35,359	172,939	22,571	284,787
Average 1978-97								
	66	655	2,426	140,665	167,403	1,711,427	228,842	2,250,762
Average 1988-97								
	67	555	2,338	152,088	167,773	2,026,707	200,574	2,549,481
Average 1978-92								
	69	740	2,777	155,812	182,868	1,614,600	255,931	2,211,988
Average 1993-97								
	57	399	1,371	95,223	121,009	2,001,908	147,574	2,367,085

^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, 1970-97.

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	39	273	26	54,782	8,495	11,812	3,508	78,623
Average 1978-97								
	40	454	87	63,556	9,291	82,756	20,015	175,705
Average 1988-97								
	51	671	150	104,286	15,772	134,982	27,235	282,425
Average 1978-92								
	37	440	73	60,165	7,379	66,540	20,249	154,405
Average 1993-97								
	47	496	131	73,728	15,026	131,405	19,314	239,604

Appendix C.20. Southeastern District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-97.

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	105	2,028	1,267	515,299	67,506	268,513	46,320	898,905
Average 1978-97								
	119	1,947	2,882	372,044	202,463	2,526,822	381,891	3,486,103
Average 1988-97								
	132	2,393	3,071	501,006	227,325	3,312,725	346,530	4,390,656
Average 1978-92								
	118	1,817	3,151	339,922	212,205	2,293,770	422,463	3,271,510
Average 1993-97								
	124	2,337	2,077	468,411	173,240	3,225,980	260,175	4,129,883

Appendix C.21. Southeastern District post June commercial purse seine salmon harvest by species, July 1-October 31, 1970-97.^a

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	43	137	1,115	80,898	40,963	234,404	28,657	386,037
Average 1978-97								
	69	890	2,797	186,864	187,390	2,640,560	365,700	3,383,311
Average 1988-97								
	69	787	2,815	212,700	198,594	3,200,735	293,375	3,908,217
Average 1978-92								
	71	996	3,146	202,770	203,254	2,534,461	420,013	3,363,644
Average 1993-97								
	61	573	1,749	139,147	139,798	2,958,856	202,762	3,442,312

^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, 1970-97

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	62	1,891	152	434,401	26,543	34,109	17,663	512,868
Average 1978-97								
	52	1,305	228	220,076	21,079	176,651	59,228	477,261
Average 1988-97								
	63	1,716	330	307,558	31,098	262,478	65,035	666,499
Average 1978-92								
	49	1,153	195	183,680	16,958	146,493	59,833	407,158
Average 1993-97								
	63	1,764	327	329,264	33,442	267,124	57,413	687,571

Appendix C.23. South Central District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-97.

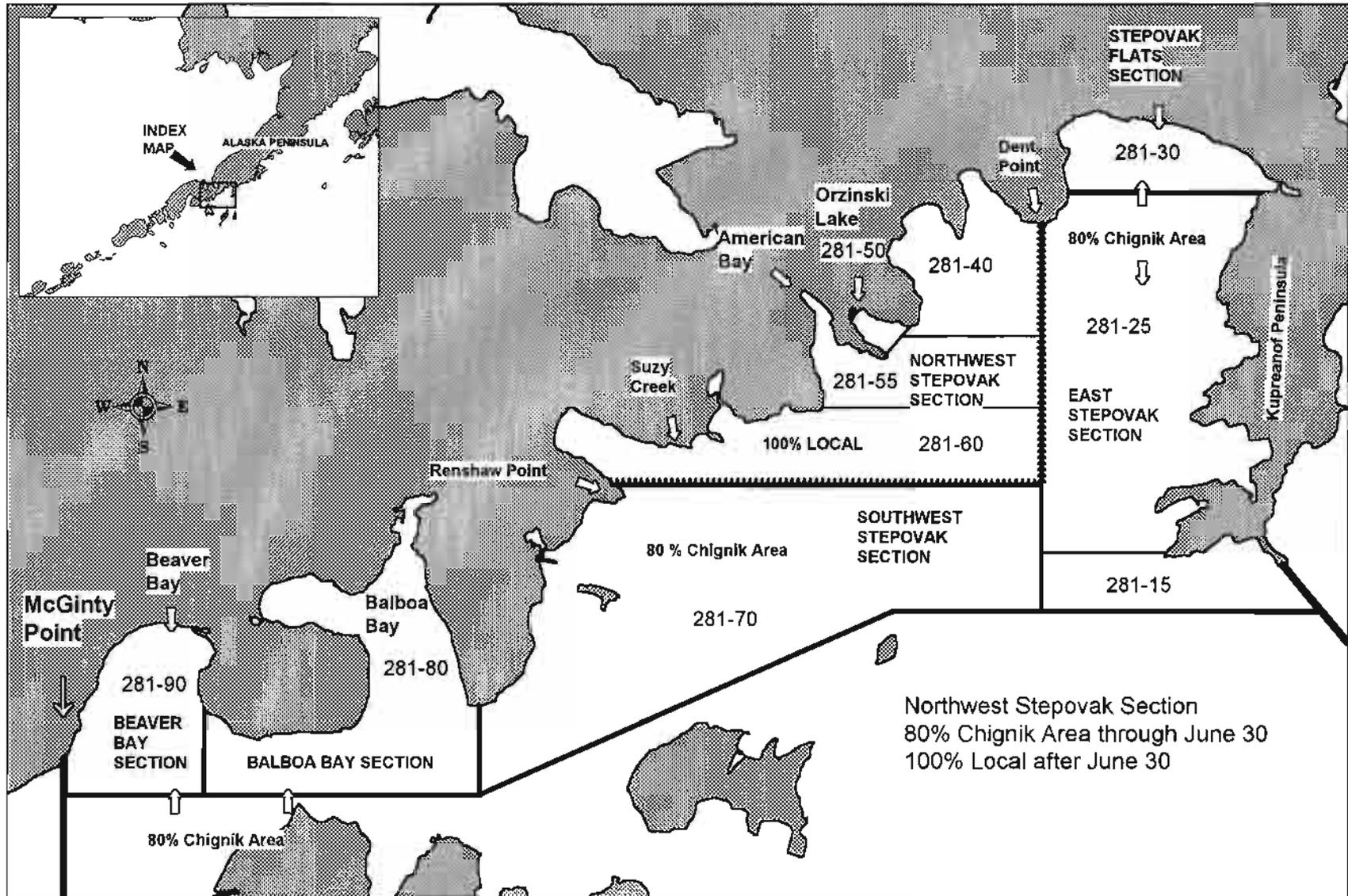
Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	63	545	1	897	145	703,145	319,249	1,023,437
1971	57	511	12	1,110	72	505,920	201,193	708,307
1972	31	106	8	155	2	7,893	30,340	38,398
1973	28	115	0	90	103	6,473	26,151	32,817
1974	16	46	1	4,461	2	11,348	2,262	18,074
1975	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
1997	55	153	45	42,992	4,440	559,879	55,050	662,406
Average 1978-97								
	75	413	115	36,703	4,050	1,426,078	169,199	1,636,146
Average 1988-97								
	73	299	153	57,454	5,828	1,409,975	143,978	1,617,387
Average 1978-92								
	77	452	131	35,537	4,344	1,354,325	174,679	1,569,015
Average 1993-97								
	70	294	69	40,200	3,169	1,641,338	152,762	1,837,538

Appendix C.24. Southwestern District post June commercial salmon harvest by species, all gear combined, July 1-October 31, 1970-97.

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	65	408	40	70,581	36,812	869,070	182,102	1,158,605
Average 1978-97								
	105	792	188	89,328	44,598	1,844,069	268,254	2,246,439
Average 1988-97								
	117	929	256	124,145	63,744	2,262,354	305,958	2,756,457
Average 1978-92								
	109	798	195	87,272	45,710	1,673,894	230,575	2,037,646
Average 1993-97								
	94	775	169	95,497	41,263	2,354,596	381,292	2,872,816

Appendix C.25. Unimak District post June commercial salmon harvest by species,
all gear combined, July 1-October 31, 1970-97.

Year	Permit	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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
1997	3	5	0	1,136	3,114	527	457	5,234
Average 1978-97								
	15	37	253	9,613	5,604	15,291	26,240	57,002
Average 1988-97								
	21	52	29	11,568	8,574	16,481	20,606	57,257
Average 1978-92								
	18	47	337	12,371	6,826	19,374	34,686	73,595
Average 1993-97								
	5	8	2	1,340	1,938	3,041	900	7,221



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

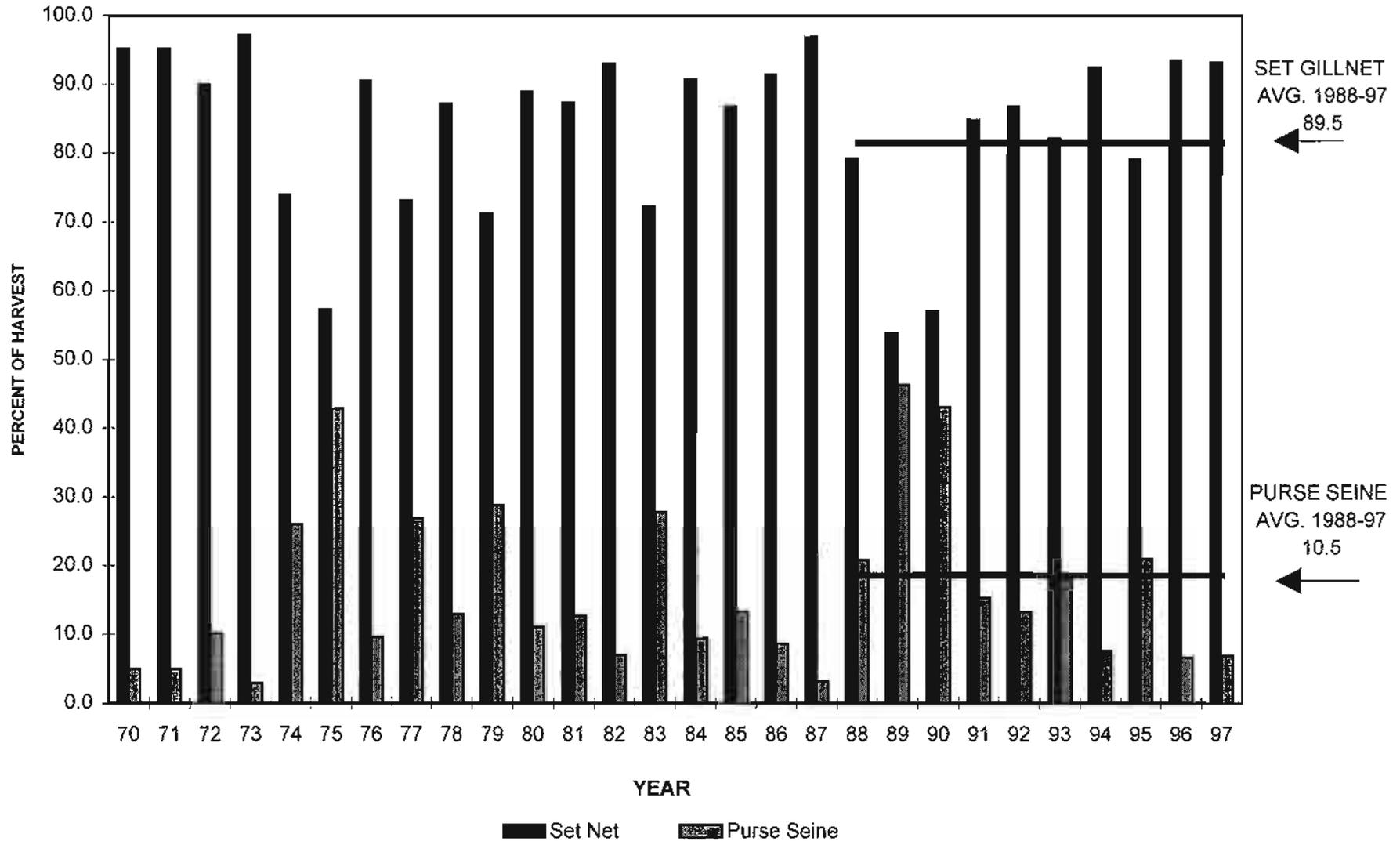
Appendix D.2. History of regulations for the Southeastern District Mainland commercial fishery, 1970-97.

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, 1970-97.^a

Year	Catch by Gear				Total Catch
	Set Net		Purse Seine		
	Number	Percent	Number	Percent	
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
1997	293,750	96.4	11,115	3.6	304,865
Average 1978-97	178,728	90.4	18,921	9.6	197,649
Average 1988-97	181,775	90.0	20,274	10.0	202,049

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



Appendix D.4. Southeastern District Mainland fishery commercial sockeye salmon harvest, in percent of harvest, by gear, through July 25, 1970-97.

Appendix D.5. Chignik sockeye salmon contribution to the Southeastern District
Mainland harvest, by gear, through July 25, 1970-97.^{abc}

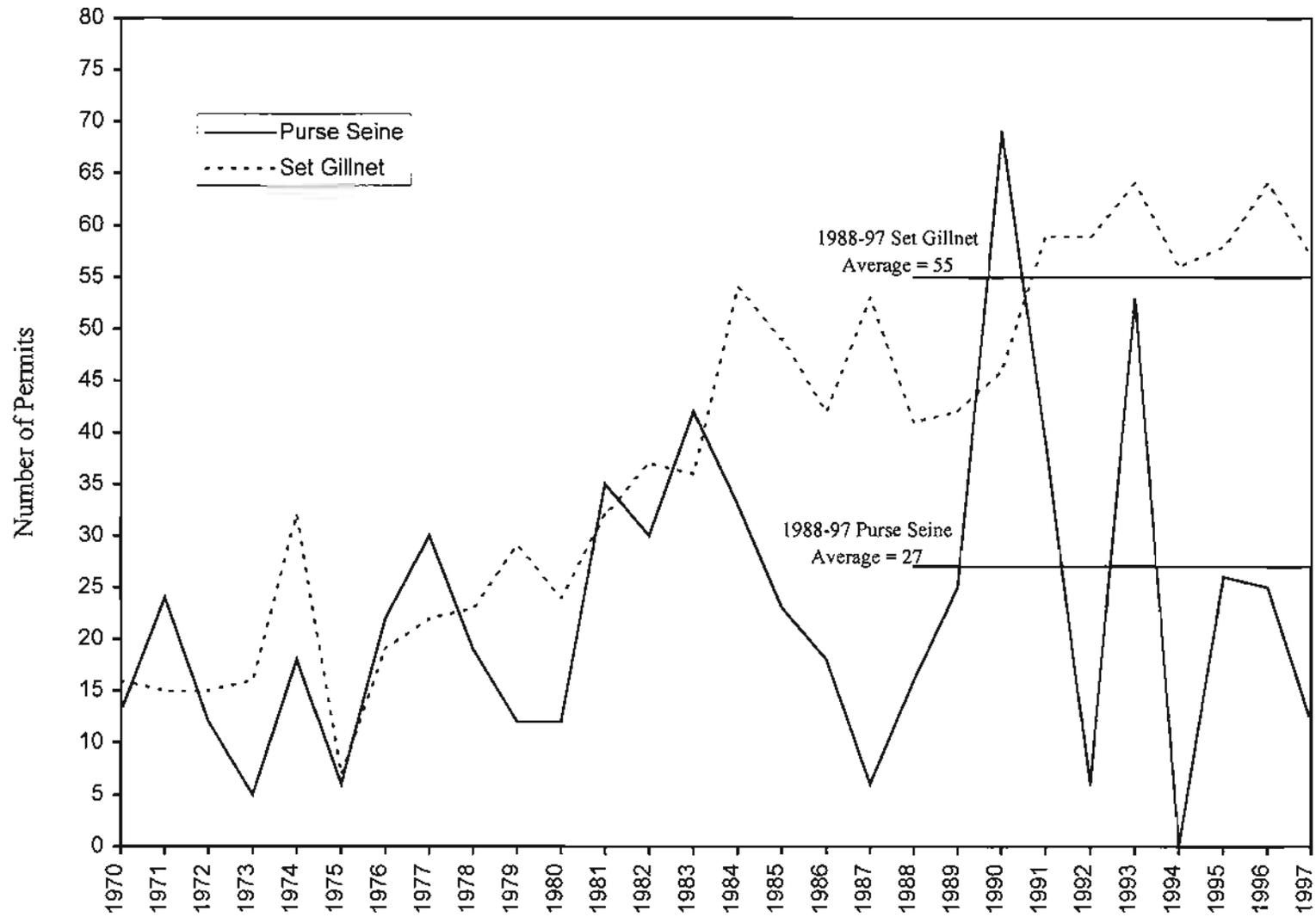
Year	Catch by Gear				Total Catch
	Set Net		Purse Seine		
	Number	Percent	Number	Percent	
1970	63,688	94.2	3,894	5.8	67,582
1971	48,575	95.9	2,066	4.1	50,641
1972	15,593	92.4	1,291	7.6	16,884
1973	36,870	98.0	743	2.0	37,613
1974	52,798	81.8	11,766	18.2	64,564
1975	1,126	51.1	1,079	48.9	2,205
1976	40,399	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
1997	0	0.0	0	0.0	0
Average 1978-97	97,211	89.3	11,671	10.7	108,882
Average 1988-97	78,148	88.3	10,387	11.7	88,535

^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.6. Southeastern District Mainland CFEC permits fished by gear through July 25, 1970-97.

Appendix D.7. Harvest of Chignik bound sockeye salmon in the Chignik, Cape Igvak, and Southeastern District Mainland Areas from 1964-97^a.

Year	Chignik Area		Cape Igvak		Southeastern District Mainland Area		Total
	Catch	Percent	Catch	Percent	Catch	Percent	
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	1,659,615	77.98	321,746	15.12	146,886	6.90	2,128,247
1988	675,487	95.67	11,218	1.59	19,320	2.74	706,025
1989	496,044	99.10	0	0.00	4,485	0.90	500,529
1990	1,205,575	83.61	107,706	7.47	128,599	8.92	1,441,880
1991 ⁱ	1,958,954	80.42	324,329	13.31	152,714	6.27	2,435,997
1992 ^j	1,054,309	81.07	152,358	11.72	93,845	7.22	1,300,512
1993	1,495,098	77.72	300,055	15.60	128,536	6.68	1,923,689
1994 ^k	1,632,435	80.61	250,230	12.36	142,350	7.03	2,025,015
1995	1,024,785	79.90	169,530	13.22	88,302	6.88	1,282,617
1996 ^l	1,714,566	79.74	308,327	14.34	127,201	5.92	2,150,094
1997	443,982	100.00	0	0.00	0	0.00	443,982

^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.

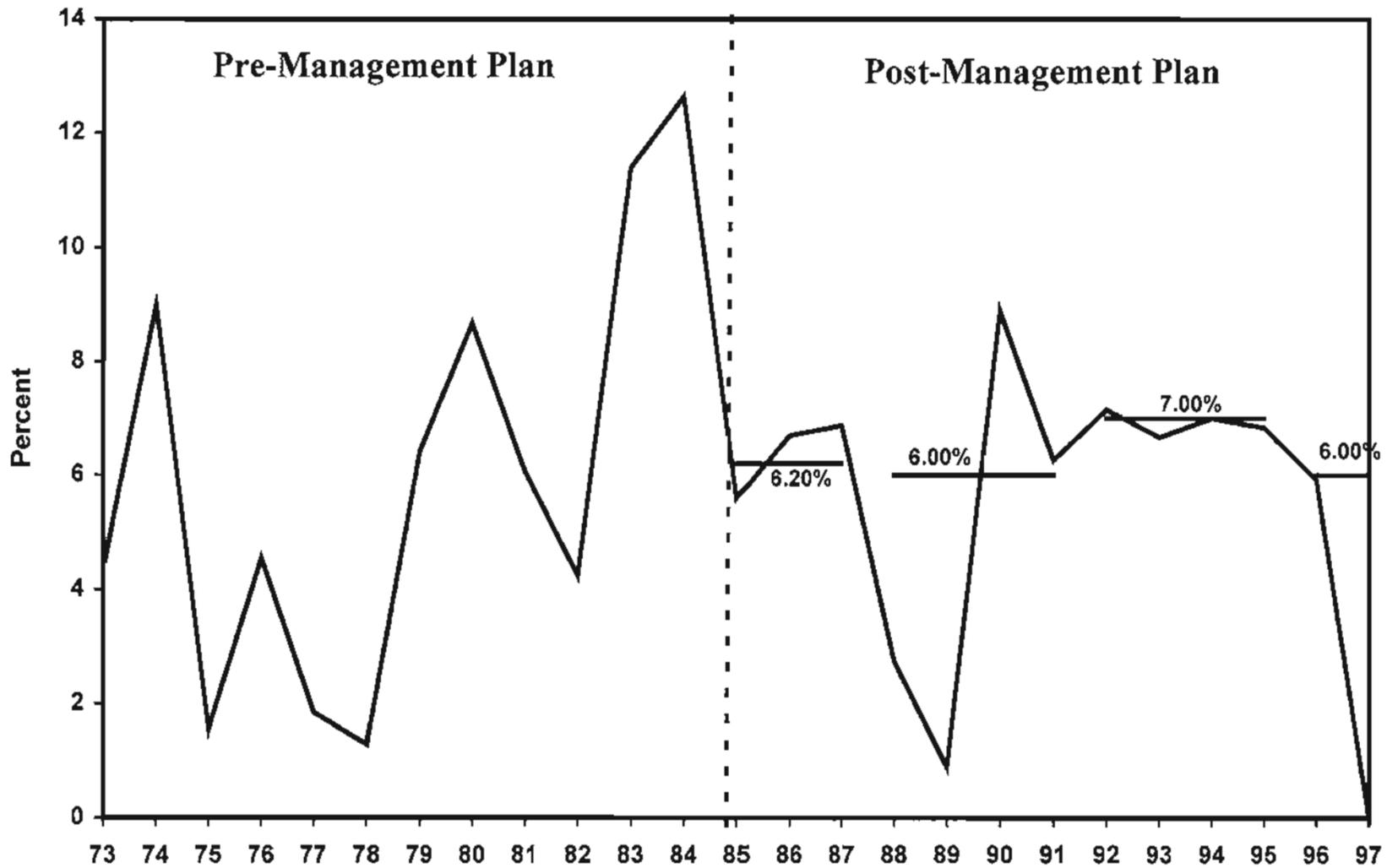
-Continued-

- ^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).

ⁱ 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 D8. Chignik bound sockeye salmon harvest in the Southeastern District Mainland fishery, through July 25, 1970-97

Appendix D.9. Southeastern District Mainland, effort and assignment of sockeye salmon harvests June 1 - July 25, 1985-97.

Year	Effort				Northwest Stepovak			SEDM minus Northwest Stepovak		SEDM		Total Catch
	Gillnet	Landings	Seine	Landings	Total	(Local)	(Non-local)	(Local)	(Non-local)	(Local)	(Non-local)	
1985 ^a	49	367	23	51	16,681	16,681	0	12,855	51,421	29,536	51,421	80,957
1986	42	616	18	29	59,025	59,025	0	29,501	118,006	88,526	118,006	206,532
1987	53	528	6	9	61,287	61,287	0	36,722	146,886	98,009	146,886	244,895
1988	41	300	16	45	57,010	57,010	0	4,830	19,320	61,840	19,320	81,160
1989	67	248	25	54	83,618	83,618	0	1,121	4,485	84,739	4,485	89,224
1990	46	277	69	131	3,279	3,279	0	32,609	128,599	35,888	128,599	164,487
1991	59	747	39	71	98,834	98,834	0	38,179	152,714	137,013	152,714	289,727
1992 ^b	59	650	6	14	113,428	101,198	12,232	20,403	81,613	121,599	93,845	215,444
1993	64	763	53	82	73,747	54,955	18,792	27,436	109,744	82,391	128,536	210,927
1994	56	678	0	0	89,522	52,880	36,642	26,427	105,708	79,307	142,350	221,657
1995	58	718	26	30	62,598	51,723	10,875	19,357	77,426	71,079	88,301	159,381
1996 ^c	64	1,164	25	46	137,925	127,645	10,280	29,230	116,921	156,875	127,201	284,076
1997 ^c	57	1,173	12	23	304,865	304,865	0	0	0	304,865	0	304,865
Average:												
1985-91	51	440	28	56	54,248	54,248	0	22,260	88,776	76,507	88,776	165,283
1992-95	59	702	21	32	84,824	65,189	19,635	23,406	93,623	88,594	113,258	201,852
1996-97	61	1,169	19	35	221,395	216,255	5,140	14,615	58,461	230,870	63,601	294,471

Appendix D.10. Northwest Stepovak Section commercial salmon harvest, all gear combined, by species, and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
6-Jul	44	70	19	12,470	24	182	127	12,822
7-Jul	47	82	12	15,846	42	471	244	16,615
8-Jul	47	83	9	18,366	37	220	169	18,801
9-Jul	49	86	7	19,207	42	354	240	19,850
10-Jul	47	73	5	18,553	35	219	267	19,079
11-Jul	52	70	7	14,378	15	266	183	14,849
12-Jul	41	61	8	8,308	12	194	181	8,703
14-Jul	39	55	5	15,169	23	447	252	15,896
15-Jul	45	67	7	24,594	27	385	278	25,291
16-Jul	45	78	9	45,234	44	425	444	46,156
17-Jul	47	73	3	21,665	10	455	283	22,416
20-Jul	26	50	2	10,729	34	631	238	11,634
21-Jul	31	64	27	24,317	521	2,971	706	28,542
22-Jul	46	92	17	15,531	35	2,720	433	18,736
23-Jul	50	79	11	16,720	131	2,510	526	19,898
24-Jul	44	80	0	13,895	215	2,274	995	17,379
25-Jul	26	33	0	9,883	139	1,895	807	12,724
26-Jul	13	28	1	8,743	93	2,168	715	11,720
1-Sep ^a	*	*	*	*	*	*	*	*
2-Sep ^a	*	*	*	*	*	*	*	*
3-Sep ^a	*	*	*	*	*	*	*	*
4-Sep ^a	*	*	*	*	*	*	*	*
5-Sep ^a	*	*	*	*	*	*	*	*
8-Sep ^a	*	*	*	*	*	*	*	*
9-Sep ^a	*	*	*	*	*	*	*	*
10-Sep ^a	*	*	*	*	*	*	*	*
11-Sep ^a	*	*	*	*	*	*	*	*
Total	69	1,250	149	316,156	2,344	19,041	7,801	345,491
Total July 1-25		1,196	148	304,865	1,386	16,619	6,373	329,391

^a Confidentiality requirements prohibit releasing this information.

Appendix D.11. Southeastern District Mainland commercial salmon harvest, all gear combined, by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
6-Jul	44	70	19	12,470	24	182	127	12,822
7-Jul	47	82	12	15,846	42	471	244	16,615
8-Jul	47	83	9	18,366	37	220	169	18,801
9-Jul	49	86	7	19,207	42	354	240	19,850
10-Jul	47	73	5	18,553	35	219	267	19,079
11-Jul	52	70	7	14,378	15	266	183	14,849
12-Jul	41	61	8	8,308	12	194	181	8,703
14-Jul	39	55	5	15,169	23	447	252	15,896
15-Jul	45	67	7	24,594	27	385	278	25,291
16-Jul	45	78	9	45,234	44	425	444	46,156
17-Jul	47	73	3	21,665	10	455	283	22,416
20-Jul	26	50	2	10,729	34	631	238	11,634
21-Jul	31	64	27	24,317	521	2,971	706	28,542
22-Jul	46	92	17	15,531	35	2,720	433	18,736
23-Jul	50	79	11	16,720	131	2,510	526	19,898
24-Jul	44	80	0	13,895	215	2,274	995	17,379
25-Jul	26	33	0	9,883	139	1,895	807	12,724
26-Jul	61	101	122	39,213	4,912	42,256	5,973	92,476
15-Aug	13	14	0	815	424	16,511	1,291	19,041
16-Aug	12	18	0	1,133	456	6,234	1,840	9,663
1-Sep	13	15	1	1,265	629	100	467	2,462
2-Sep	22	38	7	4,416	2,602	179	1,200	8,404
3-Sep	23	41	4	5,106	2,391	292	828	8,621
4-Sep	22	33	2	4,329	1,910	201	547	6,989
5-Sep	23	39	0	6,075	1,842	1,345	597	9,859
8-Sep	15	23	0	2,071	1,252	5	401	3,729
9-Sep	17	18	0	1,142	773	9	356	2,280
10-Sep	15	16	0	853	668	6	214	1,741
11-Sep	13	15	0	925	518	4	70	1,517
12-Sep	13	17	6	1,340	768	1	48	2,163
15-Sep	9	9	0	1,739	927	0	10	2,676
16-Sep	5	5	1	350	260	0	2	613
17-Sep ^a	*	*	*	*	*	*	*	*
18-Sep	4	4	0	1,334	189	0	22	1,545
19-Sep ^a	*	*	*	*	*	*	*	*
22-Sep ^a	*	*	*	*	*	*	*	*
23-Sep	4	4	0	1,922	292	0	0	2,214
24-Sep ^a	*	*	*	*	*	*	*	*

-Continued-

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
25-Sep ^a	*	*	*	*	*	*	*	*
26-Sep	7	7	0	5,615	242	0	2	5,859
29-Sep	6	6	0	5,934	358	0	0	6,292
30-Sep ^a	*	*	*	*	*	*	*	*
1-Oct ^a	*	*	*	*	*	*	*	*
2-Oct	9	9	0	4,656	244	0	0	4,900
3-Oct	5	5	0	741	44	0	0	785
6-Oct	6	6	0	3,419	106	0	0	3,525
7-Oct ^a	*	*	*	*	*	*	*	*
8-Oct ^a	*	*	*	*	*	*	*	*
9-Oct	7	7	2	2,324	26	0	0	2,352
10-Oct	4	4	0	1,836	71	0	0	1,907
13-Oct ^a	3	3	0	1,126	2	0	0	1,128
17-Oct ^a	*	*	*	*	*	*	*	*
Total	87	1,658	293	395,272	22,992	83,762	20,239	522,558
Totals Through July 25								
		1,196	148	304,865	1,386	16,619	6,373	329,391
Totals From September 1 - October 17								
		344	23	61,521	16,474	2,142	4,764	84,924

^a Confidentiality requirements prohibit reporting harvest by day.

Appendix D.12. Southeastern District Mainland commercial purse seine salmon harvest by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
11-Jul	7	7	0	654	2	54	13	723
14-Jul ^a	*	*	*	*	*	*	*	*
15-Jul ^a	*	*	*	*	*	*	*	*
16-Jul ^a	*	*	*	*	*	*	*	*
17-Jul ^a	*	*	*	*	*	*	*	*
21-Jul ^a	*	*	*	*	*	*	*	*
22-Jul	4	4	15	2,222	9	1,566	80	3892
23-Jul	5	5	6	2,009	40	1,295	84	3434
26-Jul	20	20	117	13,718	3,083	33,866	3,241	54025
15-Aug	4	4	0	375	326	16,102	813	17616
16-Aug	4	4	0	428	356	5,811	1,319	7914
2-Sep ^a	*	*	*	*	*	*	*	*
4-Sep ^a	*	*	*	*	*	*	*	*
5-Sep ^a	*	*	*	*	*	*	*	*
10-Sep ^a	*	*	*	*	*	*	*	*
Total	28	55	167	27,928	5,604	61,465	6,086	87,604
#								

^a Confidentiality requirements prohibit reporting harvest by day.

Appendix D.13. Southeastern District Mainland commercial set gillnet salmon harvest by species and day, 1997.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
6-Jul	44	70	19	12,470	24	182	127	12,822
7-Jul	47	82	12	15,846	42	471	244	16,615
8-Jul	47	83	9	18,366	37	220	169	18,801
9-Jul	49	86	7	19,207	42	354	240	19,850
10-Jul	47	73	5	18,553	35	219	267	19,079
11-Jul	45	63	7	13,724	13	212	170	14,126
12-Jul	41	61	8	8,308	12	194	181	8,703
14-Jul	38	54	5	15,058	19	433	244	15,759
15-Jul	44	66	5	23,794	27	326	273	24,425
16-Jul	44	77	9	41,737	44	365	412	42,567
17-Jul	45	71	2	20,636	9	360	253	21,260
20-Jul	26	50	2	10,729	34	631	238	11,634
21-Jul	29	62	7	23,524	86	1,789	464	25,870
22-Jul	42	88	2	13,309	26	1,154	353	14,844
23-Jul	45	74	5	14,711	91	1,215	442	16,464
24-Jul	44	80	0	13,895	215	2,274	995	17,379
25-Jul	26	33	0	9,883	139	1,895	807	12,724
26-Jul	41	81	5	25,495	1,829	8,390	2,732	38,451
15-Aug	9	10	0	440	98	409	478	1,425
16-Aug	8	14	0	705	100	423	521	1,749
1-Sep	13	15	1	1,265	629	100	467	2,462
2-Sep	21	37	1	4,346	2,220	179	1,143	7,889
3-Sep	23	41	4	5,106	2,391	292	828	8,621
4-Sep	21	32	2	3,957	1,471	104	527	6,061
5-Sep	22	38	0	4,487	1,381	81	475	6,424
8-Sep	15	23	0	2,071	1,252	5	401	3,729
9-Sep	17	18	0	1,142	773	9	356	2,280
10-Sep	14	15	0	591	602	6	194	1,393
11-Sep	13	15	0	925	518	4	70	1,517
12-Sep	13	17	6	1,340	768	1	48	2,163
15-Sep	9	9	0	1,739	927	0	10	2,676
16-Sep	5	5	1	350	260	0	2	613
17-Sep ^a	*	*	*	*	*	*	*	*
18-Sep	4	4	0	1,334	189	0	22	1,545
19-Sep ^a	*	*	*	*	*	*	*	*
22-Sep ^a	*	*	*	*	*	*	*	*
23-Sep	4	4	0	1,922	292	0	0	2,214
24-Sep ^a	*	*	*	*	*	*	*	*
25-Sep ^a	*	*	*	*	*	*	*	*
26-Sep	7	7	0	5,615	242	0	2	5,859
29-Sep	6	6	0	5,934	358	0	0	6,292

-Continued-

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
30-Sep ^a	*	*	*	*	*	*	*	*
1-Oct ^a	*	*	*	*	*	*	*	*
2-Oct	9	9	0	4,656	244	0	0	4,900
3-Oct	5	5	0	741	44	0	0	785
6-Oct	6	6	0	3,419	106	0	0	3,525
7-Oct ^a	*	*	*	*	*	*	*	*
8-Oct ^a	*	*	*	*	*	*	*	*
9-Oct	7	7	2	2,324	26	0	0	2,352
10-Oct	4	4	0	1,836	71	0	0	1,907
13-Oct ^a	*	*	*	*	*	*	*	*
17-Oct ^a	*	*	*	*	*	*	*	*
Total	59	1,618	126	379,619	18,048	22,297	14,155	434,245

^a Confidentiality requirements prohibit reporting harvest by day.

Appendix D.14. Southeastern District Mainland commercial sockeye salmon harvest, by gear, for the entire season, 1970-97.^a

Year	Catch by Gear				Total Catch
	Set Net		Purse Seine		
	Number	Percent	Number	Percent	
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
1997	379,619	93.1	27,928	6.9	407,547
Average 1978-97					
	238,696	83.8	46,201	16.2	284,896
Average 1988-97					
	266,536	81.5	60,611	18.5	327,148

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

Appendix E.1. South Peninsula emergency order summary, 1997

EMERGENCY ORDER NO. 4-FS-M-CB-02-97

EFFECTIVE DATE: June 1, 1997

EXPLANATION:

This emergency order:

(1) Delays the commercial salmon season until June 30 in the Uria 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 Uria Bay sockeye run has been weakened by intense early fishing pressure in the past. Delaying the fishery until June 30, 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 ratios 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-SP-01-97

EFFECTIVE DATE: 6:00 AM, June 12, 1997

EXPLANATION: This emergency order allows an 8 hour commercial salmon purse seine fishing period from 6:00 a.m. Thursday, June 12 until 2:00 p.m. Thursday, June 12 in the Shumagin Islands Section. This emergency order also allows a 16 hour commercial salmon set gillnet fishing period from 6:00 a.m. Thursday, June 12 until 10:00 p.m. Thursday, June 12 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 406,000 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 11 test fishery resulted in a favorable sockeye to chum salmon ratio of 2.34:1.0.

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. An eight 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.

-Continued-

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.

EMERGENCY ORDER NO. 4-FS-M-CB-03-97

EFFECTIVE DATE: 6:00 AM, June 13, 1997

EXPLANATION:

A 6:00 a.m. until 12:00 noon commercial salmon fishing period is established for seine and drift gillnet gear in the South Unimak Fishery during Friday, June 13. A 6:00 a.m. until 10:00 p.m. fishing period is established for set gillnet gear in the South Unimak Fishery during Friday, June 13.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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.

Results from today's test fishery indicated an overall sockeye to chum salmon ratio of 1.9:1, a substantial improvement over the two previous days. A six hour commercial test opening will give the fleet a chance to harvest part of their sockeye salmon guideline harvest level and to better test the sockeye to chum salmon ratios without harvesting an unacceptably high number of chum salmon.

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.

EMERGENCY ORDER NO. 4-FS-M-CB-04-97

EFFECTIVE DATE: 12:00 Noon, June 13, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 10 hours until 10:00 p.m. Friday, June 13 for drift gillnet and seine gear in the South Unimak fishery.

JUSTIFICATION:

The South Unimak Fishery is presently open six hours to enable the fleet to test the sockeye to chum ratio. Due to a price dispute, fishing effort consists of only about 50 gillnet vessels. Reports from the grounds indicate that the sockeye to chum catch ratios are good, ranging from 2.5 sockeye per chum to almost pure sockeye. Additional fishing time can be allowed at this time without harvesting a large number of chum salmon.

EMERGENCY ORDER NO. 4-FS-M-CB-05-97

EFFECTIVE DATE: 6:00 a.m. June 14, 1997

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 14. 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 14.

-Continued-

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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.

Only about 50 gillnet vessels fished during June 13, due to a price dispute. The fishery was extended for seine and drift gillnet gear until 10:00 p.m. by emergency order 4-FS-M-CB-04, based on verbal sockeye to chum salmon catch ratios. No verbal ratio reports have been received from fishermen since the extension was announced, although it has been reported that virtually all the fishermen have quit fishing for the day. Due to lack of afternoon ratio reports, the fishery will not be extended past 10:00 p.m.. Preliminary reports from the processors have a 7.8 sockeye per chum salmon catch ratio. Therefore, the fishery will be reopened for 9 hours on June 14 for seine and drift gillnet gear to again test the sockeye to chum ratio and to give fishermen an opportunity to harvest part of their sockeye salmon guideline harvest level.

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.

EMERGENCY ORDER NO. 4-FS-M-CB-06-97

EFFECTIVE DATE: 3:00 p.m. June 14, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Saturday, June 14 for drift gillnet and seine gear in the South Unimak fishery.

JUSTIFICATION:

The June 13 South Unimak harvest was 41,500 sockeye and 4,600 chum, and fishing effort consisted of only 60 vessels.

The South Unimak Fishery is presently open nine hours to enable the fleet to test the sockeye to chum ratio. Due to a price dispute, fishing effort consists of only about 100 to 120 gillnet vessels. Reports from the grounds indicate that the sockeye to chum catch ratios are good, ranging from 2.5 sockeye per chum to almost pure sockeye. Additional fishing time can be allowed at this time without harvesting a large number of chum salmon.

The South Unimak fishery guideline harvest level is 1,840,000 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.

EMERGENCY ORDER NO. 4-FS-M-CB-07-97

EFFECTIVE DATE: 10:00 p.m. June 14, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Sunday June 15 in the South Unimak Fishery

The South Unimak fishery guideline harvest level is 1,840,000 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.

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The South Unimak harvest to date is 41,500 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is only 4,800 fish. Fishing effort consists of approximately 100 gillnetters; the seine fleet is not yet participating in the fishery due to price dispute. The reported catch from 12 deliveries is 2,715 sockeye and 333 chums. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-02-97
EFFECTIVE DATE: 6:00 a.m. June 14, 1997

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Saturday June 14 until 12:00 p.m.(noon)Saturday June 14 in the Shumagin Islands Section. This emergency order also allows a 16 hour commercial salmon set gillnet fishing period from 6:00 a.m. Saturday June 14 until 10:00 p.m. Saturday June 14 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365, adopted by the Alaska Board of Fisheries. This management plan provides a guideline harvest level (GHL) of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30. 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 fishing effort and harvest to date have been minimal due to ongoing price discussions between fishermen and processors. The June 13 test fishery resulted in a favorable sockeye to chum salmon ratio of 1.5:1.0.

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 six 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.

EMERGENCY ORDER NO. 4-FS-M-SP-03-97
EFFECTIVE DATE: 6:00 a.m. June 15, 1997

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Sunday June 15 until 12:00 p.m.(noon) Sunday June 15 in the Shumagin Islands Section. This emergency order also allows a 16 hour commercial salmon set gillnet fishing period from 6:00 a.m. Sunday June 15 until 10:00 p.m. Sunday June 15 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365, adopted by the Alaska Board of Fisheries. This management plan provides a guideline harvest level (GHL) of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest through June 30. 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.

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The fishing effort and harvest to date have been minimal due to ongoing price discussions between fishermen and processors. 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 six 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.

EMERGENCY ORDER NO. 4-FS-M-CB-08-97
EFFECTIVE DATE: 3:00 p.m. June 15, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Sunday, June 15 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 14th South Unimak salmon harvest included 53,358 sockeye and 7,106 chum salmon, which brings the South Unimak sockeye catch total to 94,869 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is under 12,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 14. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

EMERGENCY ORDER NO. 4-FS-M-CB-09-97
EFFECTIVE DATE: 10:00 p.m. June 15, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Monday June 16 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 94,859 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is less than 12,000 fish. Fishing effort consists of approximately 96 gillnetters; the seine fleet is not yet participating in the fishery due to price dispute. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

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EMERGENCY ORDER NO. 4-FS-M-SP-04-97

EFFECTIVE DATE: 6:00 a.m. June 16, 1997

EXPLANATION: This emergency order allows an 8 hour commercial salmon purse seine fishing period from 6:00 a.m. Monday June 16 until 2:00 p.m. Monday June 16 in the Shumagin Islands Section. This emergency order also allows a 16 hour commercial salmon set gillnet fishing period from 6:00 a.m. Monday June 16 until 10:00 p.m. Monday June 16 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 commercial fishing effort and harvest to date have been minimal due to ongoing price discussions between fishermen and processors. The department's June 15 test fishery resulted in a favorable sockeye to chum salmon ratio of 2.4:1.0.

Based on the ratio from June 15, fishing time will allow for the directed sockeye salmon harvest toward the GHL. Commercial test fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow fishermen the opportunity to catch sockeye while minimizing chum salmon harvest. If favorable ratios are realized the 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.

EMERGENCY ORDER NO. 4-FS-M-CB-10-97

EFFECTIVE DATE: 3:00 p.m. June 16, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Monday, June 16 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 15th South Unimak salmon harvest included 43,708 sockeye and 6,322 chum salmon, which brings the South Unimak sockeye catch total to 138,577 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is approximately 18,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 15. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

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EMERGENCY ORDER NO. 4-FS-M-CB-11-97

EFFECTIVE DATE: 10:00 p.m. June 16,1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Tuesday June 17 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 138,577 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is approximately 18,000 fish. Fishing effort consists of approximately 110 gillnetters; the seine fleet is not yet participating in the fishery due to price dispute. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-05-97

EFFECTIVE DATE: 6:00 a.m. June 17,1997

EXPLANATION: This emergency order allows a 6 hour commercial salmon purse seine fishing period from 6:00 a.m. Tuesday June 17 until 12:00 p.m.(noon) Tuesday June 17 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 17 until 10:00 p.m. Tuesday June 17 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 commercial fishing effort and harvest to date have been minimal due to ongoing price discussions between fishermen and processors. The department's June 15 test fishery resulted in a favorable sockeye to chum salmon ratio of 2.4:1.0.

Based on the ratio from June 15, fishing time will allow for the directed sockeye salmon harvest toward the GHL. Commercial test fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow fishermen the opportunity to catch sockeye while minimizing chum salmon harvest. If favorable ratios are realized the 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.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-12-97

EFFECTIVE DATE: 3:00 p.m. JUNE 17, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Tuesday, June 17 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 16th South Unimak salmon harvest included 61,624 sockeye and 8,768 chum salmon, which brings the South Unimak sockeye catch total to 200,201 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is less than 27,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 16. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

EMERGENCY ORDER NO. 4-FS-M-CB-13-97

EFFECTIVE DATE: 10:00 p.m. June 17, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Wednesday June 18 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 200,201 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is less than 27,000 fish. Fishing effort consists of approximately 110 gillnetters; the seine fleet is not yet participating in the fishery due to price dispute. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-06-97

EFFECTIVE DATE: 6:00 a.m. June 18, 1997

EXPLANATION: This emergency order allows a 9 hour commercial salmon purse seine fishing period from 6:00 a.m. Wednesday June 18 until 3:00 p.m. Wednesday 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. Wednesday June 18 until 10:00 p.m. Wednesday June 18 in the Shumagin Islands Section.

-Continued-

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 commercial fishing effort and harvest to date have been minimal due to ongoing price discussions between fishermen and processors. The department's June 17 test fishery resulted in a favorable sockeye to chum salmon ratio of 2.2:1.0.

Based on the ratio from June 17, fishing time will allow for the directed sockeye salmon harvest toward the GHL. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow fishermen the opportunity to catch sockeye while minimizing chum salmon harvest. If favorable ratios are realized the 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.

EMERGENCY ORDER NO. 4-FS-M-SP-07-97
EFFECTIVE DATE: 3:00 p.m. June 18, 1997

EXPLANATION: This emergency order allows a 7 hour extension of the current commercial salmon purse seine fishing period from 3:00 p.m. Wednesday June 18 until 10:00 p.m. Wednesday June 18 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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.

Harvest reports from the Shumagin Islands Section will not be available until tomorrow morning. However, most fishermen reported favorable sockeye to chum salmon ratios. Fishermen 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 the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-08-97
EFFECTIVE DATE: 10:00 p.m. June 18, 1997

EXPLANATION: This emergency order allows a 17 hour extension of the current commercial salmon fishing period from 10:00 p.m. Wednesday June 18 until 3:00 p.m. Thursday June 19 in the Shumagin Islands Section.

-Continued-

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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.

Harvest reports from the Shumagin Islands Section will not be available until tomorrow morning. However, fishermen reported a low volume of salmon and most continued to report favorable sockeye to chum salmon ratios. Fishermen 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 the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-CB-15-97

EFFECTIVE DATE : 3:00 p.m. June 18, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Wednesday, June 18 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 17th South Unimak salmon harvest included 56,663 sockeye and 8,373 chum salmon, which brings the South Unimak sockeye catch total to 256,864 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is approximately 35,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 17. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

EMERGENCY ORDER NO. 4-FS-M-CB-16-97

EFFECTIVE DATE: 10:00 p.m. JUNE 18, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Thursday June 19 in the South Unimak Fishery.

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JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 256,864 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest approximately 35,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-09-97
EFFECTIVE DATE; 3:00 p.m. June 19,1997

EXPLANATION: This emergency order allows a 7 hour extension of the current commercial salmon fishing period from 3:00 p.m. Thursday June 19 until 10:00 p.m. Thursday June 19 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 18 in the Shumagin Islands Section is 55,054 salmon comprised of 189 chinook, 34,232 sockeye, 4 coho, 10,342 pink, and 10,288 chum salmon. The sockeye to chum salmon ratio for June 18 was 3.33 to 1. About 370,600 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-10-97
EFFECTIVE DATE: 10:00 P.M. June 19, 1997

EXPLANATION: This emergency order allows a 17 hour extension of the current commercial salmon fishing period from 10:00 p.m. Thursday June 19 until 3:00 p.m. Friday June 20, in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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.

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The preliminary harvest figures for June 18 in the Shumagin Islands Section is 55,054 salmon comprised of 189 chinook, 34,232 sockeye, 4 coho, 10,342 pink, and 10,288 chum salmon. The sockeye to chum salmon ratio for June 18 was 3.33 to 1. About 370,600 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-CB-17-97
EFFECTIVE DATE : 3:00 p.m. June 19, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Thursday, June 19 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 18th South Unimak salmon harvest included 99,533 sockeye and 15,499 chum salmon, which brings the South Unimak sockeye catch total to 356,397 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is approximately 61,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 18. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

EMERGENCY ORDER NO. 4-FS-M-CB-18-97
EFFECTIVE DATE 10:00 p.m. June 19, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Friday June 20 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 356,397 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest approximately 61,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

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EMERGENCY ORDER NO. 4-FS-M-SP-11-97
EFFECTIVE DATE: 3:00 P.M. June 20, 1997

EXPLANATION: This emergency order allows a 7 hour extension of the current commercial salmon fishing period from 3:00 p.m. Friday June 20 until 10:00 p.m. Friday June 20 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 19 in the Shumagin Islands Section is 100,128 salmon comprised of 302 chinook, 58,240 sockeye, 0 coho, 21,506 pink, and 20,080 chum salmon. The sockeye to chum salmon ratio for June 19 was 2.9 to 1. About 312,360 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-12-97
EFFECTIVE DATE: 10:00 p.m. June 20, 1997

EXPLANATION: This emergency order allows a 17 hour extension of the current commercial salmon fishing period from 10:00 p.m. Friday June 20 until 3:00 p.m. Saturday June 21 in the Shumagin Islands Section.

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 19 in the Shumagin Islands Section is 100,128 salmon comprised of 302 chinook, 58,240 sockeye, 0 coho, 21,506 pink, and 20,080 chum salmon. The sockeye to chum salmon ratio for June 19 was 2.9 to 1. About 312,360 sockeye salmon remain to be harvested on the GHL. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

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EMERGENCY ORDER NO. 4-FS-M-CB-19-97

EFFECTIVE DATE: 3:00 p.m. June 20, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time an additional 7 hours until 10:00 p.m. Friday, June 20 in the South Unimak fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 June 18th South Unimak salmon harvest included 104,704 sockeye and 19,062 chum salmon, which brings the South Unimak sockeye catch total to 461,101 fish. The combined South Unimak-Shumagin Islands June chum salmon harvest is approximately 100,000 fish. Reports from the grounds indicated that today's sockeye per chum salmon ratio is similar to that of June 19. More fishing time is needed for fishermen to harvest their sockeye guideline harvest level while the number of chum salmon is low.

EMERGENCY ORDER NO. 4-FS-M-CB-20-97

EFFECTIVE DATE: 10:00 p.m. June 20, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 17 hours until 3:00 p.m. Saturday June 21 in the South Unimak Fishery

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 461,101 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest approximately 100,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be quite low and more fishing time is needed to the harvest sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-CB-21-97

EFFECTIVE DATE: 3:00 p.m. June 21, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Sunday June 22 in the South Unimak Fishery.

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JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 576,665 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is approximately 127,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-13-97
EFFECTIVE DATE: 3:00 p.m. June 21, 1997

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

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 20 in the Shumagin Islands Section is 68,681 salmon comprised of 246 chinook, 48,235 sockeye, 3 coho, 10,599 pink, and 9,598 chum salmon. The sockeye to chum salmon ratio for June 20 in the Shumagin Islands Section was 5.0 to 1. About 264,125 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The combined South Unimak and Shumagin Islands chum harvest through June 20 is 126,586 salmon. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-SP-14-97
EFFECTIVE DATE: 3:00 p.m. June 22, 1997

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

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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.

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The preliminary harvest figures for June 21 in the Shumagin Islands Section is 111,192 salmon comprised of 408 chinook, 70,586 sockeye, 9 coho, 21,525 pink, and 18,664 chum salmon. The sockeye to chum salmon ratio for June 21 in the Shumagin Islands Section was 3.8 to 1. About 193,539 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The combined South Unimak and Shumagin Islands chum harvest through June 21 is 157,241 salmon. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-CB-22-97
EFFECTIVE DATE: 3:00 p.m. June 22, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Monday June 23 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 658,063 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is approximately 157,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-15-97
EFFECTIVE DATE: 3:00 p.m. June 23, 1997

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

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 22 in the Shumagin Islands Section is 56,924 salmon comprised of 115 chinook, 33,913 sockeye, 1 coho, 13,117 pink, and 9,778 chum salmon. The sockeye to chum salmon ratio for June 22 in the Shumagin Islands Section was 3.5 to 1. About 159,626 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The combined South Unimak and Shumagin Islands chum harvest through June 22 is 184,073 salmon. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

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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 the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GH, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-CB-23-97
EFFECTIVE DATE: 3:00 p.m. June 23, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Tuesday June 24 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 736,248 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is approximately 184,000 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-CB-24-97
EFFECTIVE DATE: 3:00 p.m. June 24, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Wednesday June 25 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest to date is 808,990 sockeye while the combined South Unimak - Shumagin Island chum salmon harvest is approximately 213,500 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-16-97
EFFECTIVE DATE 3:00 p.m. June 24, 1997

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

-Continued-

JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 23 in the Shumagin Islands Section is 110,463 salmon comprised of 277 chinook, 55,546 sockeye, 2 coho, 39,283 pink, and 15,355 chum salmon. The sockeye to chum salmon ratio for June 23 in the Shumagin Islands Section was 3.6 to 1. About 104,080 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The combined South Unimak and Shumagin Islands chum harvest through June 23 is 213,510 salmon. Fishermen continue to report from the grounds that ratios are favorable and volume is low.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest. If favorable ratios are realized the fishery could be extended.

EMERGENCY ORDER NO. 4-FS-M-CB-25-97

EFFECTIVE DATE: 3:00 p.m. June 25, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Thursday June 26 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest during June 24 was 77,941 sockeye and 15,318 chum salmon. The total harvest to date is 886,931 sockeye and 144,758 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 239,221 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-SP-17-97

EFFECTIVE DATE: 3:00 p.m. June 25, 1997

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 3:00 p.m. Wednesday June 25 until 3:00 p.m. Thursday June 26 in the Shumagin Islands Section.

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JUSTIFICATION:

The Shumagin Islands June fishery is managed under a regulatory management plan, 5 AAC 09.365. This management plan provides a guideline harvest level (GHL) through June 30 of 406,000 sockeye salmon for the Shumagin Islands Section based on 1.5% of the total Bristol Bay projected inshore sockeye salmon harvest. 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 preliminary harvest figures for June 24 in the Shumagin Islands Section is 66,967 salmon comprised of 258 chinook, 32,818 sockeye, 6 coho, 23,492 pink, and 10,393 chum salmon. The sockeye to chum salmon ratio for June 24 in the Shumagin Islands Section was 3.16 to 1. About 71,262 sockeye salmon remain to be harvested on the Shumagin Islands GHL. The combined South Unimak and Shumagin Islands chum harvest through June 24 is 239,221 salmon. Fishermen continue to report from the grounds that ratios are favorable and volume is low. Based on information from processors the department believes fishing effort will be reduced as some seiners do not plan to participate in this fishing period.

Based on historical harvest records the peak of the sockeye salmon run in the Shumagin Islands occurs between June 14 and June 23, and the chum salmon abundance tends to increase toward the end of June. Commercial fishing by the fleet will provide the department information to help determine how to best achieve the conditions of the management plan and allow for the directed sockeye salmon harvest toward the GHL, while minimizing chum salmon harvest.

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-PS-M-CB-27-97

EFFECTIVE DATE: 3:00 p.m. June 26, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Friday June 27 in the South Unimak Fishery

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest during June 25 was 79,119 sockeye and 11,963 chum salmon. The total harvest to date is 996,050 sockeye and 156,721 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 266,510 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

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EMERGENCY ORDER NO. 4-FS-M-CB-29-97
EFFECTIVE DATE: 3:00 p.m. June 27, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Saturday June 28 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest during June 26 was 80,128 sockeye and 10,146 chum salmon. The total harvest to date is 1,046,178 sockeye and 166,867 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 292,820 fish. The sockeye to chum ratios reported from the grounds are high. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-CB-30-97
EFFECTIVE DATE: 3:00 p.m. June 28, 1997

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Sunday June 29 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest during June 27 was 56,261 sockeye and 10,143 chum salmon. The total harvest to date is 1,102,439 sockeye and 177,010 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 302,963 fish. The level of fishing effort is declining and at this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level.

EMERGENCY ORDER NO. 4-FS-M-CB-31-97
EFFECTIVE DATE; 3:00 p. m. June 29, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 3:00 p.m. Monday June 30 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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.

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The South Unimak harvest during June 28 was 36,657 sockeye and 6,482 chum salmon. The total harvest to date is 1,139,096 sockeye and 183,492 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 309,445 fish. The level of fishing effort is declining. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level. -----

EMERGENCY ORDER NO. 4-FS-M-CB-32-97
EFFECTIVE DATE: 3:00 p.m. June 30, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 9 hours until 12:00 Midnight Monday June 30 in the South Unimak Fishery.

JUSTIFICATION:

The South Unimak fishery guideline harvest level is 1,840,000 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 harvest during June 29 was 18,996 sockeye and 2,327 chum salmon. The total harvest to date is 1,158,092 sockeye and 185819 chum salmon. The combined South Unimak - Shumagin Island chum salmon harvest is 311,772 fish. The level of fishing effort is declining. At this rate the total chum catch will be far below the 700,000 harvest ceiling and more fishing time is needed to harvest the sockeye guideline harvest level. -----

EMERGENCY ORDER NO. 4-FS-M-CB-33-97
EFFECTIVE DATE: 7:00 a.m. July 6, 1997

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.

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-18-97
EFFECTIVE DATE: 10:00 a.m. July 6, 1997

EXPLANATION: This emergency order allows a 56 hour commercial salmon set gillnet fishing period from 10:00 a.m. Sunday July 6 until 6:00 p.m. Tuesday July 8, 1997 in the Northwest Stepovak Section of the Southeastern District. -----

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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 4, was 3,050 salmon for a total sockeye escapement of 6,147 salmon, composed of 5,997 adult and 150 jack salmon. The interim escapement goal of 5,000 adult sockeye salmon by July 9 has been surpassed.

Commercial fishing by the fleet will allow fishermen to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-SP-19-97
EFFECTIVE DATE: 5:00 p.m. July 7, 1997

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 6, was 5,208 salmon for a total sockeye escapement of 11,365 salmon, composed of 11,181 adult and 184 jack salmon. The interim escapement goal of 10,000 adult sockeye salmon by July 16 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-20-97
EFFECTIVE DATE: 6:00 p.m. July 8, 1997

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon set gillnet fishing period from 6:00 p.m. Tuesday July 8 until 6:00 p.m. Wednesday July 8, 1997 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.

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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 7 was 2,504 salmon for a total sockeye escapement of 13,869 salmon, composed of 13,676 adult and 193 jack salmon. The interim escapement goal of 10,000 adult sockeye salmon by July 16 has been surpassed.

Reducing the normal 1,000 yard closed waters to include only those waters upstream from the terminus at the ocean shoreline of any stream in Orzinski Bay is warranted. The closed waters adjustments and commercial fishing by the fleet will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO.4-FS-M-SP-21-97
EFFECTIVE DATE 6:00 p.m. July 9, 1997

EXPLANATION: This emergency order allows a 75 hour extension of the current commercial salmon set gillnet fishing period from 6:00 p.m. Wednesday July 9 until 9:00 p.m. Saturday July 12, 1997 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also allows a 45 hour commercial salmon purse seine fishing period from 12:01 a.m. Friday July 11 until 9:00 p.m. Saturday July 12, 1997 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, and adjusts the closed waters in Dorenoi Bay to include all waters north and west of a line from the tip of Renshaw Point to the opposite shore at 55°38.4' N. latitude, 160°19' W. longitude.

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 8 was 246 salmon for a total sockeye escapement of 14,115 salmon, composed of 13,921 adult and 193 jack salmon. The interim escapement goal of 10,000 adult sockeye salmon by July 16 has been surpassed.

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Reducing the normal 1,000 yard closed waters to include only those waters upstream from the terminus at the ocean shoreline of any stream in Orzinski Bay is warranted. The closed waters adjustments and commercial fishing by the fleet will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

Adjusting the closed waters in Dorenoi Bay is also warranted. Prior to the 1995 season, the Board of Fisheries (BOF), following the department's recommendation, changed the closed waters in Dorenoi Bay. The closed waters adjustment was intended to correct the north boundary marker which was located in the water instead of on land. This BOF regulation change inadvertently placed a registered set net permit site inside closed waters which was definitely not the intent of the department. The closed waters adjustment will return the set net site to open waters and not expand the fishery.

EMERGENCY ORDER NO. 4-FS-M-CB-41-97
EFFECTIVE DATE: 7:00 a.m. July 11, 1997

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
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 during July 11-12.

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. Based on past escapements, a strong sockeye run is anticipated into Thin Point Lake and the closed waters need to be reduced before fishermen can target Thin Point stocks.

EMERGENCY ORDER NO. 4-FS-M-SP-22-97
EFFECTIVE DATE: 9:00 p.m. July 12, 1997

EXPLANATION: This emergency order extends the closed waters adjustments in Dorenoi Bay to include all waters north and west of a line from the tip of Renshaw Point to the opposite shore at 55°38.4' N. latitude, 160°19' W. longitude from 9:00 p.m. Saturday July 12 until 12:00 a.m., midnight, Friday July 25, 1997.

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JUSTIFICATION:

Adjusting the closed waters in Dorenoi Bay is warranted. Prior to the 1995 season, the Board of Fisheries (BOF), following the department's recommendation, changed the closed waters in Dorenoi Bay. The closed waters adjustment was intended to correct the north boundary marker which was located in the water instead of on land. This BOF regulation change inadvertently placed a registered set net permit site inside closed waters which was definitely not the intent of the department. The closed waters adjustment will return the set net site to open waters and not expand the fishery.

EMERGENCY ORDER NO. 4-FS-M-SP-23-97
EFFECTIVE DATE; 10:00 a.m. July 14, 1997

EXPLANATION: This emergency order allows a 56 hour commercial salmon fishing period from 10:00 a.m. Monday July 14 until 6:00 p.m. Wednesday July 16, 1997 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 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).

The sockeye salmon daily escapement at Orzinski weir, on July 12, was 99 fish for a total sockeye escapement of 14,954 salmon, comprised of 14,741 adult and 213 jack salmon. The interim escapement goal of 10,000 adult sockeye by July 16 has been surpassed and the July 23 interim escapement goal of 15,000 adult sockeye should be reached today.

Commercial fishing by the fleet and reducing the closed waters in Orzinski Bay will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-SP-24-97
EFFECTIVE DATE: 6:00 p.m. July 16, 1997

EXPLANATION: This emergency order allows a 25 hour extension of the current commercial salmon fishing period from 6:00 p.m. Wednesday July 16 until 7:00 p.m. Thursday July 17, 1997 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 within 500 yards of any salmon stream.

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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 15, was 1,208 fish for a total sockeye escapement of 16,333 salmon, comprised of 16,086 adult and 247 jack salmon. The interim escapement goal of 15,000 adult sockeye by July 23 has been surpassed.

Commercial fishing by the fleet and reducing the closed waters in Orzinski Bay will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements. -----

EMERGENCY ORDER NO. 4-FS-M-SP-25-97
EFFECTIVE 7:00 p.m. July 20, 1997

EXPLANATION: This emergency order allows a 38 hour commercial salmon fishing period from 7:00 a.m. Sunday July 20 until 9:00 p.m. Monday July 21, 1997 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 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 17, was 348 fish for a total sockeye escapement of 17,645 salmon, comprised of 17,325 adult and 320 jack salmon. The interim escapement goal of 15,000 adult sockeye by July 23 has been surpassed.

Commercial fishing by the fleet and reducing the closed waters in Orzinski Bay will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements. -----

EMERGENCY ORDER NO. 4-FS-M-CB-47-97
EFFECTIVE DATE 7:00 A.M. July 20, 1997

EXPLANATION:

This emergency order establishes a 7:00 a.m. July 20 until 9:00 p.m. July 21 commercial salmon fishing period in the South Central District, Southwestern District, Sanak Island Section and Otter Cove Section. A 7:00 a.m. July 20 until 9:00 p.m. July 21 commercial salmon fishing period is established in the Shumagin Islands Section for set gillnet gear only.

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JUSTIFICATION:

The projected South Peninsula pink salmon harvest is 7,000,000 fish. A strong chum salmon run is also anticipated.

Fishing time is needed to harvest the resource and to test run strength. At this time seine gear cannot be allowed to operate in the Shumagin Islands Section due to the unacceptable level of immature salmon present as determined through test fishing. Immature salmon are gilled in seines and are therefore a wasted resource. It is stated under 5AAC 09.330.(f)(4) that salmon may be taken by set gillnet gear during periods when the seine fishery is closed due to the presence of immature salmon.

EMERGENCY ORDER NO. 4-FS-M-CB-49-97

EFFECTIVE DATE; 7:00 a.m. July 20, 1997

EXPLANATION:

This emergency order allows seine gear to be used during the 7:00 a.m. July 20 until 9:00 p.m. July 21 commercial salmon fishing period in the Shumagin Islands Section..

JUSTIFICATION:

Due to the presence of immature salmon in the Shumagin Islands Section, the fishing period established by emergency order 4-FS-M-CB-47-97 allowed only set gillnet gear to be used in the Shumagin Islands Section. Immature salmon are gilled in seines and are a wasted resource. Test fish results during the past two days indicate that numbers of immature salmon present in the Shumagin Islands are at a low enough level of abundance, that seining can be allowed during the 7:00 a.m. July 20 to 9:00 p.m. July 21 fishing period without wasting an unacceptable number of immature salmon. This emergency order supersedes emergency order 4-FS-M-CB-47-97.

EMERGENCY ORDER NO. 4-FS-M-SP-26-97

EFFECTIVE DATE: 9:00 p.m. July 21, 1997

EXPLANATION: This emergency order allows a 45 hour extension of the current commercial salmon fishing period from 6:00 p.m. Monday July 21 until 6:00 p.m. Wednesday July 23, 1997 in the Northwest Stepovak Section of the Southeastern District.

This emergency order also reduces the 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).
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The sockeye salmon daily escapement at Orzinski weir, on July 20, was 1,052 fish for a total sockeye escapement of 21,397 salmon, comprised of 20,912 adult and 485 jack salmon. The interim escapement goal of 15,000 adult sockeye by July 23 has been surpassed.

Commercial fishing by the fleet and reducing the closed waters in Orzinski Bay will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-SP-27-97
EFFECTIVE DATE: 8:00 a.m. July 22, 1997

EXPLANATION: This emergency order reduces the 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 20 was 1,052 fish for a total sockeye escapement of 21,397 salmon, comprised of 20,912 adult and 485 jack salmon. The interim escapement goal of 15,000 adult sockeye by July 23 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 provide commercial fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-SP-28-97
EFFECTIVE DATE: 6:00 p.m. July 23, 1997

EXPLANATION: This emergency order allows a 21 hour commercial salmon fishing period from 12:01 a.m. Saturday July 26 until 9:00 p.m. Saturday July 26, 1997 in the East Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections of the Southeastern District

This emergency order also allows a 75 hour extension of the current commercial salmon fishing period from 6:00 p.m. Wednesday July 23 until 9:00 p.m. Saturday July 26, 1997 in the Northwest Stepovak Section of the Southeastern District.

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

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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 7.2 million pink salmon harvest is projected for the South Peninsula. Commercial salmon fishing by the fleet will provide the department with information to access the strength of local pink and chum salmon runs. This fishing period will also place the Southeastern District Mainland area on the same fishing schedule as the balance of the South Peninsula.

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 is appropriate to start coordinating fishing periods with the balance of the Southeastern District Mainland area.

The sockeye salmon daily escapement at Orzinski weir on July 21 was 1,741 fish for a total sockeye escapement of 23,138 salmon, comprised of 22,615 adult and 523 jack salmon. The interim escapement goal of 20,000 adult sockeye by August 7 has been surpassed. The normal 1,000 yard closed waters for any salmon stream in Orzinski Bay will be reduced to include only those waters upstream from the terminus at the ocean shoreline. Commercial fishing by the fleet and reducing the closed waters in Orzinski Bay will allow fishermen the opportunity to harvest local sockeye salmon that are excess to Orzinski Lake escapement requirements.

The Stepovak Flats Section will remain closed to commercial salmon fishing during this fishing period to protect milling chum salmon that are needed for escapement.

EMERGENCY ORDER NO. 4-FS-M-CB-50-97
EFFECTIVE DATE; 7:00 a.m. July 25, 1997

EXPLANATION:

This emergency order establishes a 7:00 a.m. July 25 until 9:00 p.m. July 26 commercial salmon fishing period in the Shumagin Islands Section, all of the South Central District except the Canoe Bay Section, the Southwestern District, the Otter Cove Section, and the Sanak Island Section, a 38 hour period.

JUSTIFICATION:

The South Peninsula pink salmon run is underway. Catches during the July 20-21 fishing period and recent escapement surveys indicate that the run is likely below the 7,000,000 harvest projection but well above escapement requirements. A 38 hour fishing period after a 3 1/2 day closure will allow the fishermen to harvest pink salmon while the quality is high and to again test run strength. The Canoe Bay Section should remain closed during the July 25-26 fishing period to protect a weak chum salmon run before pink salmon arrive in Canoe Bay in larger abundance than chums.

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EMERGENCY ORDER NO. 4-FS-M-CB-52-97
EFFECTIVE DATE: 7:00 a.m. July 30, 1997

EXPLANATION:

This emergency order establishes a 7:00 a.m. July 30 until 9:00 p.m. July 31 commercial salmon fishing period in the Southwestern District, the Shumagin Islands, Southwest Stepovak, Balboa Bay, Beaver Bay, Mino Creek-Little Coal Bay, West Pavlof Bay, Sanak Island, Otter Cove and Bechevin Bay Sections. .

JUSTIFICATION:

Pink salmon harvests in much of the South Peninsula indicate that the run is below the harvest projection, but well above escapement requirements. Much of the western portion of the South Peninsula is untested. A 38 hour fishing period after an 82 hour closure will allow the fleet to harvest pink salmon while the quality is good and to again test run strength. The pink salmon catch in the Northwest and East Stepovak Sections was low during the previous fishing period and escapement surveys have indicated very few fish in early streams. Because the pink salmon escapements into the East Pavlof Bay Section are poor and the Canoe Bay Chum salmon escapement is below the desired level for this date, these sections will remain closed. The chum salmon escapement into St. Catherine Cove is at the desired level and chum salmon should be entering Traders Cove at this time. Fishing time in the Bechevin Bay Section is needed to harvest St. Catherine Cove chums and to test the Traders Cove run strength.

EMERGENCY ORDER NO. 4-FS-M-53-97
EFFECTIVE DATE: 9:00 p.m. July 31, 1997

EXPLANATION:

This emergency order extends commercial fishing time 19 hours until 4:00 p.m. August 1 in the Southwestern District, the Shumagin Islands, Balboa Bay, Beaver Bay, Mino Creek-Little Coal Bay, West Pavlof Bay, Sanak Island, Otter Cove and Bechevin Bay Sections. .

The East Pavlof Bay and Canoe Bay Sections will be open to commercial salmon fishing for 19 hours from 9:00 p.m. July 31 until 4:00 p.m. August 1.

JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. Harvest information from the previous fishing period and escapement surveys indicate that pink salmon runs in the Stepovak Sections may be substantially weaker than the balance of the area. The pink salmon escapements into the East Pavlof Bay systems have improved greatly. Almost no harvest has taken place because of a strike. More fishing time is needed to give the fleet a chance to harvest the resource in part of the South Peninsula and in Bechevin Bay.

EMERGENCY ORDER NO. 4-FS-M-CB-54-97
EFFECTIVE DATE: 4:00 p.m. August 1, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 2 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay.

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JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum escapement into Bechevin Bay is strong. Almost no harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula and in Bechevin Bay.

EMERGENCY ORDER NO. 4-FS-M-CB-55-97

EFFECTIVE DATE: 4:00 p.m. August 2, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 3 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum escapement into Bechevin Bay is strong. Almost no harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula and in Bechevin Bay.

EMERGENCY ORDER NO. 4-FS-M-CB-56-97

EFFECTIVE DATE: 4:00 p.m. August 3, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 4 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

Effective 4:00 p.m. August 3, the waters closed to commercial salmon fishing area expanded to include all waters on the north and east sides of Dolgoi Island within one nautical mile of shore, located between Bluff Point and Dolgoi Cape. All waters located within one nautical mile of Poperechnoi Island area also closed to commercial salmon fishing.

JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum escapement into Bechevin Bay is strong. Very little harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula and in Bechevin Bay. The harvest that has been occurring has been targeted towards sockeye and the purpose of this fishing period has been to harvest local pink and chum salmon stocks. The July 30-August 2 harvest was approximately 11% pink, 6% chum, and 80% sockeye salmon all by gillnet gear. Consequently the area where the harvest has taken place should be closed until it is estimated that pink salmon will be the most abundant species harvested.

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Appendix E.1. (page 32 of 41)

EMERGENCY ORDER NO. 4-FS-M-CB-57-97
EFFECTIVE DATE: 4:00 p.m. August 4, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 5 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum escapement into Bechevin Bay is strong. Very little harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula and in Bechevin Bay.

EMERGENCY ORDER NO. 4-FS-M-CB-58-97
EFFECTIVE DATE: 4:00 p.m. August 5, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 6 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

JUSTIFICATION:

The early pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum salmon run into Bechevin Bay is strong as well as the Morzhovoi Bay sockeye escapement. Very little harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula.

EMERGENCY ORDER NO. 4-FS-M-CB-59-97
EFFECTIVE DATE: 4:00 p.m. August 6, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 7 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

JUSTIFICATION:

The early pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum salmon run into Bechevin Bay is strong as well as the Morzhovoi Bay sockeye escapement. Very little harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-60-97
EFFECTIVE DATE: 4:00 p.m. August 8, 1997

EXPLANATION:

This emergency order extends commercial salmon fishing time 24 hours until 4:00 p.m. August 8 in the Shumagin Islands Section, Balboa Bay Section, Beaver Bay Section, South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

Effective 4:00 p.m. August 7, the waters closed to commercial salmon fishing are expanded to include all waters of the Volcano Bay Section south and east of a line from the north entrance of Bear Bay to Arch Point, and all waters of the East Pavlof Bay and West Pavlof Bay Sections south of 55 ° 26 ' N. lat.

This emergency order supersedes emergency order 4-FS-M-CB-56-97 regarding the closed waters in the Volcano Bay Section.

JUSTIFICATION:

The early system pink salmon escapements are showing substantial improvement in that part of the South Peninsula outside of Stepovak Bay. The early chum salmon run into Bechevin Bay is strong as well as the Morzhovoi Bay sockeye escapement. Very little harvest is occurring due to a price dispute. More fishing time is needed to give the fleet an opportunity to harvest the resource in part of the South Peninsula. The purpose of this fishing period is to target pink and chum salmon stocks and sockeye where runs are large enough to support a fishery. The fishery in the Volcano Bay Section and outer Pavlof Bay has been exclusively fished by gillnet gear and is harvesting mostly sockeye. This season's sockeye escapements in the South Central District appear small and do not appear capable of supporting a directed fishery.

EMERGENCY ORDER NO. 4-FS-M-CB-62-97
EFFECTIVE DATE: August 8, 1997

EXPLANATION:

This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of Mino Creek, all streams in Coal Bay, Settlement Point Creek, Middle Creek, Southern Creek, Western Creek, and McGinty's Creek effective August 8 through August 31.

JUSTIFICATION:

The peak escapement goals have all been reached or exceeded in the above streams, and they will likely receive many more salmon before they are fished due to a price dispute. More fishing area is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-63-97
EFFECTIVE DATE: 4:00 p.m. August 8, 1997

EXPLANATION:

This emergency order allows continuous commercial salmon fishing through 9:00 p.m. August 20 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

-Continued-

JUSTIFICATION:

Commercial salmon fishing along the South Peninsula and in Bechevin Bay continues to be very light due to a price dispute. Pink and chum salmon escapements are generally healthy west of the Southeastern District and some streams have exceeded their season goal. The sockeye escapement also appears good in the larger systems near the west end of the Southwestern District. Continuous fishing can be allowed at this time with such a low gear level (8-10 units of gillnet gear) without damaging the stocks. In the Southeastern District, it appears that the balance of the pink salmon run may be needed for escapement and no more fishing should be allowed at this time.

EMERGENCY ORDER NO. 4-FS-M-CB-64-97

EFFECTIVE DATE: August 10, 1997

EXPLANATION:

This emergency order supersedes emergency orders 4-FS-M-CB-56-97 and 4-FS-M-CB-60-97 in regard to closed waters under 5AAC 09.350. This returns the closed waters regulations to those listed in the regulation book for all waters in the Volcano Bay Section, and those portions of the East Pavlof bay and West Pavlof Bay Sections located south of 55° 26' N. Latitude.

Effective August 10 through August 31, commercial salmon fishing is open to the terminus at the ocean shoreline of Eastern Creek on Deer Island.

JUSTIFICATION:

The areas closed by prior emergency orders in the Volcano Bay, East Pavlof Bay, and West Pavlof Bay Sections were done so because the gear being used was all of a type that was targeting sockeye salmon in an area where the sockeye escapements cannot justify a targeted fishery. Fishermen with seine gear will finally be operating again and targeting pink and chum salmon that are the dominant species. Therefore the closures should be lifted to allow the seine fleets to harvest quality pink and chum salmon.

EMERGENCY ORDER NO. 4-FS-M-CB-65-97

EFFECTIVE DATE: August 13, 1997

EXPLANATION:

This emergency order allows commercial salmon fishing up to the terminus at the ocean shoreline of Barney's Creek, Rocky River, all streams on Deer Island, and all streams in Dolgoi Harbor effective August 13 through August 31.

JUSTIFICATION:

The peak escapement goals have all been reached or exceeded in the above streams. More fishing area is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-66-97

EFFECTIVE DATE: August 15, 1997

JUSTIFICATION:

A recent survey indicated that the pink salmon escapement into Southwest Bight Creek is 6,500 fish. This is well over the upper end of the peak goal for this system. Large numbers of pink salmon are at the mouth and out in the bay in addition to the fish in the stream. More fishing area is needed to harvest the resource.

-Continued-

EMERGENCY ORDER NO. 4-FS-M-CB-67-97
EFFECTIVE DATE: 8:00 a.m. August 15, 1997

EXPLANATION:

This emergency order establishes an 8:00 a.m. August 15 until 9:00 p.m. August 16 commercial salmon fishing period in the Balboa Bay and Beaver Bay Sections.

JUSTIFICATION:

The pink salmon escapement into Balboa Bay and Beaver Bay Section streams has reached the point where a harvest is justified.

Pink salmon escapements into streams between Mino Creek and the west side of Beaver Bay have reached or exceeded their goals. More fishing area is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-SP-29-97
EFFECTIVE DATE: 9:00 p.m. August 16, 1997

EXPLANATION: This emergency order allows a 48 hour extension of the current commercial salmon fishing period from 9:00 p.m. Saturday August 16 until 9:00 p.m. Monday August 18, 1997 in the Beaver Bay Section of the Southeastern District.

JUSTIFICATION:

A pink salmon harvest of 7.2 million fish is projected for the South Peninsula. Pink salmon escapements into Beaver Bay streams are good for this date. Additional fishing time in the Beaver Bay Section is warranted to provide fishermen the opportunity to harvest salmon that are excess to escapement requirements.

Recent aerial surveys in the balance of the Southeastern District indicate that salmon escapements are below average for this date. To insure salmon escapement, the Southeastern District, outside of the Beaver Bay Section, should remain closed to commercial salmon fishing until further notice.

EMERGENCY ORDER NO. 4-FS-M-CB 69-97
EFFECTIVE DATE: 9:00 p.m. August 20, 1997

EXPLANATION:

This emergency order allows continuous commercial salmon fishing through 9:00 p.m. August 25 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and Bechevin Bay Section.

JUSTIFICATION:

Pink and Chum salmon escapements are generally very strong, well over the goals in some streams. the Morzhovoi Bay sockeye escapement is strong. Effort is light throughout the area. More fishing time is needed to harvest the resource.

EMERGENCY ORDER NO. 4-FS-M-CB-70-97
EFFECTIVE DATE: August 21, 1997

EXPLANATION:

This emergency order reduces the closed waters to commercial salmon fishing in Kitchen Anchorage to include only those waters within 500 yards of the salmon stream, effective August 21 through August 31.

-Continued-

JUSTIFICATION:

The escapement goal of pink salmon into Kitchen Anchorage Creek is 8,000 to 16,000. A recent survey estimated 900 pink salmon in the stream and another 25,000 at the mouth. A closed waters reduction will allow fishermen to more effectively harvest salmon coming into the bay while protecting those at the creek mouth.

EMERGENCY ORDER NO. 4-FS-M-CB-71-97

EFFECTIVE DATE: August 24, 1997

EXPLANATION:

This emergency order supersedes emergency order 4-FS-M-CB-69-97 and closes the fishing period in the South Central District, Southwestern district, Sanak Island Section, Otter Cove Section and Bechevin Bay Section 45 hours earlier than previously established

JUSTIFICATION:

The present fishing period is currently based on pink salmon and chum salmon. The quality and quantity of these species has declined to the point where the only buyer has suspended buying. It is anticipated that much of the area will reopen to commercial salmon fishing on September 1 to target coho salmon. A window of time is needed in between fishing periods to give subsistence fishermen a better opportunity to harvest salmon. The ability of subsistence salmon fishermen to harvest fish is restricted during commercial fishing periods.

EMERGENCY ORDER 4-FS-M-CB-72-97

EFFECTIVE DATE: 8:00 a.m. August 28, 1997

EXPLANATION:

This emergency order establishes a 8:00 a.m. August 28 until 9:00 p.m. August 29 commercial salmon fishing period in the Volcano Bay Section and that portion of the West Pavlof Bay Section located south of the latitude of Black Point..

JUSTIFICATION:

Escapements of chum salmon into closed waters of Volcano Bay and lower West Pavlof Bay justify additional harvests. A market for chum salmon will be available during August 28-29.

EMERGENCY ORDER NO. 4-FS-M-75-97

EFFECTIVE DATE: 9:00 a.m. September 1, 1997

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 expanded to include all waters of the lagoon and its outlet channel during September 1-4.

The commercial salmon fishing season in the Northwestern District is reopened during September 1 - 30.

-Continued-

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 needs to be reopened in the Northwestern District to allow coho harvest as the season closed August 10 in much of the district.

More fishing area is needed before Thin Point Cove coho salmon can be harvested. Thin Point Cove is the largest coho salmon producing system on the South Peninsula.

Swanson Lagoon and its outlet channel should remain closed to fishing at this time to protect sockeye salmon. The sockeye salmon escapement is below the desired level.

EMERGENCY ORDER NO. 4-FS-M-SP-30-97
EFFECTIVE DATE: 9:00 a.m. September 1, 1997

EXPLANATION: This emergency order allows a 35 hour commercial salmon fishing period from 9:00 a.m. Monday September 1 until 8:00 p.m. Tuesday September 2, 1997 in the Southeastern District.

JUSTIFICATION:

Based on aerial survey observations and historical run timing, coho salmon are currently entering local bays and pink salmon escapement into late run systems have improved the last two weeks. Commercial salmon fishing by the fleet will provide the department with information to access the strength of local coho salmon runs.

Set gillnet effort should not affect pink salmon escapement and purse seine effort is expected to be light and concentrated on the capes rather than in bays. Currently there are no pink salmon markets in the area.

EMERGENCY ORDER NO. 4-FS-M-SP-31-97
EFFECTIVE DATE: 8:00 p.m. September 2, 1997

EXPLANATION: This emergency order allows a 48 hour extension of the current commercial salmon fishing period from 8:00 p.m. Tuesday September 2 until 8:00 p.m. Thursday September 4, 1997 in the Southeastern District.

JUSTIFICATION:

Based on aerial survey observations and historical run timing, coho salmon are currently entering local bays and pink salmon escapement into late run systems have improved the last two weeks. The preliminary harvest report for September 1 indicates coho salmon catches per delivery are adequate for this date, however strong northwest winds limited fishing effort. Additional fishing time is needed to provide the department with information to access the strength of local coho salmon runs and to give commercial fishermen the opportunity to harvest salmon that are excess to escapement requirements.

Set gillnet effort should not affect pink salmon escapement and purse seine effort is expected to be light and concentrated on the capes rather than in bays. Currently there are no pink salmon markets in the area.

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EMERGENCY ORDER NO. 4-FS-M-CB-78-97
EFFECTIVE DATE: 12:00 Midnight September 4, 1997

EXPLANATION:

This emergency order extends the commercial salmon fishing period 24 hours until 8:00 p.m. September 5 in the South Central, Southwestern, and Unimak Districts.

JUSTIFICATION:

A recent survey indicated that there are approximately 1,800 coho salmon in the closed waters of Thin Point Lagoon, where the fishing effort is concentrated. This is a healthy escapement for this date. Weather limited the fishery on September 3 and is eliminating the fishery on September 4. A 24 hour extension of the fishing period will enable fishermen to recover some time lost to weather.

EMERGENCY ORDER NO. 4-FS-M-SP-32-97
EFFECTIVE DATE: 8:00 p.m. September 4, 1997

EXPLANATION: This emergency order allows a 24 hour extension of the current commercial salmon fishing period from 8:00 p.m. Thursday September 4 until 8:00 p.m. Friday September 5, 1997 in the Southeastern District.

JUSTIFICATION:

Based on aerial survey observations and historical run timing, coho salmon are currently entering local bays and pink salmon escapement into late run systems have improved the last two weeks. Preliminary harvest reports indicate coho salmon catches per delivery are good for this date. Additional fishing time is needed to provide the department with information to assess the strength of local coho salmon runs and to give commercial fishermen the opportunity to harvest salmon that are excess to escapement requirements.

EMERGENCY ORDER NO. 4-FS-M-CB-81-97
EFFECTIVE DATE: 9:00 p.m. September 8, 1997

EXPLANATION:

This emergency order extends the commercial salmon fishing period 96 hours until 8:00 p.m. Thursday September 11 in the Northwestern District and establishes a 9:00 a.m. September 8 until 8:00 p.m. September 11 commercial salmon fishing period in the Cold Bay, Thin Point, Morzhovoi Bay, and Ikaton Bay Sections and in the Unimak District.

JUSTIFICATION:

Virtually no fishing has taken place in the Northwestern District due to weather and no fishing is expected to occur prior to September 8. When fishing does occur, it is anticipated to be light. Intensive fishing has occurred at Thin Point Cove, the major South Peninsula coho system and the escapement is on target for this date. The Southwestern District east of Cold Bay and the South Central District have small coho runs and no more fishing should be directed at Volcano River chum salmon.

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EMERGENCY ORDER NO. 4-FS-M-SP-33-97
EFFECTIVE DATE: 9:00 a.m. September 8, 1997

EXPLANATION: This emergency order allows a 59 hour commercial salmon fishing period from 9:00 a.m. Monday September 8 until 8:00 p.m. Wednesday September 10, 1997 in the Southeastern District.

JUSTIFICATION:

Based on aerial survey observations and historical run timing, coho salmon are currently entering local bays and pink salmon escapement into late run systems have improved the last two weeks. Preliminary harvest reports indicate coho salmon catches per delivery are good for this date. Additional fishing time is needed to provide the department with information to access the strength of local coho salmon runs and to give commercial fishermen the opportunity to harvest salmon that are excess to escapement requirements.

The department expects set gillnet effort to decrease, as fishermen end their season, and should not affect pink salmon escapement. ADF&G does not anticipate any purse seine effort for the remainder of the season. There are no pink salmon markets in the area.

EMERGENCY ORDER NO. 4-FS-M-SP-34-97
EFFECTIVE DATE: 8:00 P.M. September 10, 1997

EXPLANATION: This emergency order allows a 48 hour extension of the current commercial salmon fishing period from 8:00 p.m. Wednesday September 10 until 8:00 p.m. Friday September 12, 1997 in the Southeastern District.

JUSTIFICATION:

Based on aerial survey observations and historical run timing, coho salmon are currently entering local bays. Preliminary harvest reports from fishing periods through September 9 indicate coho salmon catches per delivery (60 coho) in the Southeastern District Mainland area are above the most recent ten year average of 46 coho salmon per delivery. Additional fishing time is needed to provide the department with information to access the strength of local coho salmon runs and to give commercial fishermen the opportunity to harvest salmon that are excess to escapement requirements.

The department expects set gillnet effort to decrease, as fishermen end their season, and should not affect pink salmon escapement. ADF&G does not anticipate any purse seine effort for the remainder of the season. Currently there are no pink salmon markets in the area.

EMERGENCY ORDER NO. 4-FS-M-CB-82-97
EFFECTIVE DATE: 8:00 p.m. September 11, 1997

EXPLANATION:

This emergency order extends the commercial salmon fishing period 24 hours until 8:00 p.m. Friday September 12 in the Cold Bay, Thin Point, Morzhovoi Bay, and Ikatan Bay Sections and in the Unimak District.

JUSTIFICATION:

The escapement of coho salmon into Thin Point Cove appears healthy for this date. Effort is low consisting of only two or three set gillnet fishermen. A 24 hour extension of the fishing period can be granted without damaging the runs.

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EMERGENCY ORDER NO. 4-FS-M-CB-83-97
EFFECTIVE DATE: 8:00 p.m. September 11, 1997

EXPLANATION:

This emergency order extends the commercial salmon fishing period 24 hours until 8:00 p.m. Friday September 12 in the Cold Bay, Thin Point, Morzhovoi Bay, and Ikatan Bay Sections and in the Unimak District.

JUSTIFICATION:

The escapement of coho salmon into Thin Point Cove appears healthy for this date. Effort is low consisting of only two or three set gillnet fishermen. A 24 hour extension of the fishing period can be granted without damaging the runs.

EMERGENCY ORDER NO. 4-FS-M-SP-35-97
EFFECTIVE DATE: 9:00 p.m. September 15, 1997

EXPLANATION: This emergency order establishes weekly commercial salmon fishing periods in the Southeastern District during the remainder of the commercial salmon fishing season which ends September 30. Beginning September 15, commercial salmon fishing periods will start at 9:00 a.m. Monday and end at 8:00 p.m. Friday.

JUSTIFICATION:

Aerial surveys of September 10 and 12 indicate 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. Additional fishing time is needed to give commercial fishermen the opportunity to harvest salmon that are excess to escapement requirements.

Weather conditions in September are normally adverse and usually limit 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 also be adequate to good in Southeastern District streams.

EMERGENCY ORDER NO. 4-FS-M-CB-84-97
EFFECTIVE DATE: 9:00 a.m. September 17, 1997

EXPLANATION:

This emergency order establishes a 9:00 a.m. September 17 until 8:00 p.m. September 19 commercial salmon fishing period in the Cold Bay, Thin Point, Morzhovoi Bay, and Ikatan Bay Sections and in the Unimak District.

JUSTIFICATION:

The escapement of coho salmon into Thin Point Lagoon, the major harvest location, was estimated to be at least 3,500 fish on September 10. This is a strong escapement for this date and another commercial harvest is warranted. Subsistence fishermen will have been given an opportunity to fish in waters closed to commercial salmon fishing during the September 13-16 commercial closure.

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EMERGENCY ORDER NO. 4-FS-M-SP-36-97

EFFECTIVE DATE: 12:01 a.m. October 1, 1997

EXPLANATION: This emergency order extends the current commercial salmon fishing season until 8:00 p.m. on October 31 in the Southeastern District.

This emergency order also extends the closed waters for all waters of Stepovak Bay, north of a line extending east from Dent Point at 55°47'15" N. lat., 159°52' W. long., to a point on the Kupreanof Peninsula at 55°47' N. lat., 159°38'30" W. long.

JUSTIFICATION:

The final aerial surveys of the season on September 12 and 13 indicated sockeye, pink, and chum salmon escapements are good in the Southeastern District. Unfortunately, the visibility in the major coho producing systems was marginal to poor and accurate coho escapement counts were not possible. However, coho catch per unit effort (CPUE) continues to be good. 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 for the remainder of the commercial salmon fishing season is warranted to harvest coho salmon surplus to the escapement needs of local systems. Extending the closed waters in Stepovak Bay will protect any milling chum salmon that are needed for escapement requirements.

Appendix F.1. Salmon escapement survey counts in the South Peninsula, 1997.

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Dorenoi Bay Sw, 281-1001										
	08/01/1997		Stream	G	0	0	0	300	0	DISTANCE SURVEYED: LOW WATER
		Rod Campbell	Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	1,700	0	
08/08/1997										
			Stream	G	0	0	0	2,500	0	DISTANCE SURVEYED: BAY CHOPPY & MURKY
		Rod Campbell	Mouth	G	0	0	0	1,000	0	
			Bay	P	0	0	0	0	0	
08/12/1997										
			Stream	P	0	0	0	500	0	DISTANCE SURVEYED: RIVER MUDDY, FISH SEEN IN UPPER RIVER
		Jim Cofske	Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
08/20/1997										
			Stream	G	0	0	0	28,000	4,000	DISTANCE SURVEYED: LOOKS GOOD, BAY MURKY, LOTS OF FISH
		Rod Campbell	Mouth	G	0	0	0	1,500	0	
			Bay	F	0	0	0	15,000	0	
09/03/1997										
			Stream	G	0	0	0	32,000	3,700	DISTANCE SURVEYED: PLUS 300 SALMON CARCASSES
		Rod Campbell	Mouth	G	0	0	0	500	0	
			Bay	G	0	0	0	500	0	
Dorenoi Bay Ne River, 281-1002										
08/01/1997										
			Stream	G	0	0	0	0	0	DISTANCE SURVEYED: MOUTH, LOWER & UPPER STREAM - ALMOST DRY - MIDDLE LOW WATER
		Rod Campbell	Mouth	G	0	0	0	50	0	
			Bay	G	0	0	0	0	0	
08/08/1997										
			Stream	G	0	0	0	200	0	DISTANCE SURVEYED: BAY CHOPPY & MURKY
		Rod Campbell	Mouth	G	0	0	0	100	0	
			Bay	P	0	0	0	0	0	
08/12/1997										
			Stream	P	0	0	0	0	0	DISTANCE SURVEYED: RIVER VERY MUDDY
		Jim Cofske	Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
08/20/1997										
			Stream	G	0	0	0	6,500	0	DISTANCE SURVEYED: LOOKS GOOD, BAY MURKY - LOTS OF FISH
		Rod Campbell	Mouth	G	0	0	0	1,000	0	
			Bay	F	0	0	0	10,000	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997	Rod Campbell	Stream	F	0	0	0	4,500	0	DISTANCE SURVEYED: MOUTH & LOWER 1/3 OF STREAM MURKY
			Mouth	F	0	0	0	500	0	
			Bay	F	0	0	0	0	0	
Suzy Creek, 281-1003	07/21/1997	Rod Campbell	Stream	G	0	0	0	0	200	DISTANCE SURVEYED: PARTIAL SURVEY MOUTH AND LOWER 1/4 MILE OF STREAM. LOW WATER NO JUMPERS
			Mouth	G	0	0	0	0	100	
			Bay							
	07/24/1997	Rod Campbell	Stream	G				100		DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH & LOWER 1/4 OF STREAM VERY TURBULENT - 4 SEINERS & 10 SET NET BOATS IN AREA
			Mouth	G				150		
			Bay							
	07/27/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	250	0	
			Bay							
	07/29/1997	Rod Campbell	Stream	G	0	0	0	800	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	500	0	
	08/01/1997	Rod Campbell	Stream	G	0	0	0	4,000	0	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	500	0	
	08/08/1997	Rod Campbell	Stream	G	0	0	0	16,000	0	DISTANCE SURVEYED: WATER LEVEL IMPROVED - JUMPERS IN DEEP WATER OFF MOUTH
			Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	5,000	0	
	08/12/1997	Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: VERY MUDDY DUE TO RAIN
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/14/1997	Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: TOO MUDDY TO SURVEY STREAM
			Mouth	P	0	0	0	1,000	0	
			Bay	P	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Cbum	
08/16/1997 Jim Cofske	Stream	P	0	0	0	1,000	0	DISTANCE SURVEYED: TOO WINDY TO SURVEY MOST OF STREAM. LOWER 1/8 MILE		
	Mouth	G	0	0	0	2,000	0			
	Bay	P	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	F	0	0	0	80,000	0	DISTANCE SURVEYED: TURBULANT AND LOW LIGHT CONDITIONS - ESPECIALLY IN UPPER 1/3 OF STREAM. A FEW CARCASSES COULD USE MORE FISH.		
	Mouth	G	0	0	0	1,000	0			
	Bay	G	0	0	0	2,500	0			
08/26/1997 Rod Campbell	Stream	G	0	0	0	60,000	0	DISTANCE SURVEYED: PARTIAL SURVEY - TURBULENT - UNABLE TO SURVEY UPPER 1/3 OF STREAM, PLUS 5000 PINK CARCASSES		
	Mouth	G	0	0	0	1,000	0			
	Bay	G	0	0	0	600	0			
09/03/1997 Rod Campbell	Stream	G	0	0	0	40,000	0	DISTANCE SURVEYED: PLUS THOUSANDS OF PINK CARCASSES		
	Mouth	G	0	0	0	10,000	0			
	Bay	G	0	0	0	0	0			
West Cove, 281-1004 07/27/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER		
	Mouth	G	0	0	0	100	0			
	Bay									
08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER		
	Mouth	G	0	0	0	300	0			
	Bay	G	0	0	0	0	0			
08/08/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	500	0			
	Bay	G	0	0	0	0	0			
08/14/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: TOO WINDY TO SURVEY STREAM SURVEYED MOUTH ONLY		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	P	0	0	0	3,000	0	DISTANCE SURVEYED: STREAM MURKY		
	Mouth	G	0	0	0	1,500	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/26/1997 Rod Campbell	Stream									DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH ONLY - TOO TURBULENT TO SURVEY STREAM
	Mouth	F	0	0	0	1,500	0			
	Bay	F	0	0	0	500	0			
	Stream									DISTANCE SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY. VERY MUDDY - COULD NOT SEE ANY FISH OR JUMPERS.
09/03/1997 Rod Campbell	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
	Stream									DISTANCE SURVEYED:
Chichagof Bay W Side, 281-2001 07/24/1997 Rod Campbell	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
	Stream									DISTANCE SURVEYED: PARTIAL SURVEY MOUTH AND LOWER 1/4 MILE OF STREAM PLUS 500 CHUM OFF MOUTH & ALONG BEACH BETWEEN 2001 & 2003
07/27/1997 Rod Campbell	Mouth	G	0	0	0	0	0			
	Bay		0							
	Stream									DISTANCE SURVEYED: LOW WATER
08/01/1997 Rod Campbell	Mouth	G	0	0	0	0	25			
	Bay	G	0	0	0	50	0			
	Stream									DISTANCE SURVEYED:
08/08/1997 Rod Campbell	Mouth	G	0	0	0	500	50			
	Bay	G	0	0	0	1,500	0			
	Stream									DISTANCE SURVEYED: MUDDY AT THE MOUTH
08/14/1997 Jim Cofske	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	3,000	0			
	Stream									DISTANCE SURVEYED: GOOD CONDITIONS
08/16/1997 Jim Cofske	Mouth	G	0	0	0	6,000	0			
	Bay	G	0	0	0	3,000	0			
	Stream									DISTANCE SURVEYED:
08/20/1997 Rod Campbell	Mouth	G	0	0	0	15,500	500			
	Bay	G	0	0	0	0	0			
	Stream									DISTANCE SURVEYED: PLUS 500 PINK & 300 CHUM CARCASSES
08/26/1997 Rod Campbell	Mouth	G	0	0	0	15,000	250			
	Bay	G	0	0	0	0	0			
						5,000	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997		Stream	P	0	0	0	5,000	500	DISTANCE SURVEYED: MOUTH MUDDY, STREAM MURKY - ALL FISH SEEN IN CLEAR TRIBUTARIES
		Rod Campbell	Mouth	P	0	0	0	1,000	0	
			Bay	P	0	0	0	2,000	0	
Chichagof Bay Stream, 281-2002	07/24/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: PLUS 100 CHUM SALMON ALONG BEACH BETWEEN 2002 & 2003
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay							
	07/27/1997		Stream							DISTANCE SURVEYED: NO SURVEY
		Rod Campbell	Mouth							
			Bay							
	08/01/1997		Stream	G	0	0	0	0	500	DISTANCE SURVEYED: LOW WATER - LAGOON ONLY
		Rod Campbell	Mouth							
			Bay							
	08/08/1997		Stream	G	0	0	0	0	500	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/14/1997		Stream	G	0	0	0	3,000	0	DISTANCE SURVEYED: GOOD CONDITION IN STREAM
		Jim Cofske	Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/16/1997		Stream	G	0	0	0	2,600	0	DISTANCE SURVEYED:
		Jim Cofske	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/20/1997		Stream	G	0	0	0	18,500	3,500	DISTANCE SURVEYED: 8000 OF PINKS IN LAGOON - POSSIBLY SOME CHUMS MIXED IN
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/26/1997		Stream	G	0	0	0	18,000	2,300	DISTANCE SURVEYED: PLUS 1000 CHUM CARCASSES & A FEW PINK CARCASSES
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	09/03/1997		Stream	F	0	0	500	20,000	3,800	DISTANCE SURVEYED: FAIR CONDITIONS STREAM MURKY SPECIES ID DIFFICULT PLUS 8000 SALMON (SPECIES?) IN LAGOON - ALL COHO IN LAGOON
		Rod Campbell	Mouth							
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Chichagof Bay E Side, 281-2003										
	07/24/1997	Rod Campbell	Stream	G	0	0	0	0	500	DISTANCE SURVEYED: NO FISH OBSERVED IN THE LAGOON LOW WATER
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	07/27/1997	Rod Campbell	Stream	G	0	0	0	0	500	DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & LOWER 1/4 MILE OF STREAM. LOW WATER
			Mouth	G						
			Bay							
	08/01/1997	Rod Campbell	Stream	G	0	0	0	0	800	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	500	0	
			Bay	G	0	0	0	500	0	
	08/08/1997	Rod Campbell	Stream	G	0	0	0	2,500	1,500	DISTANCE SURVEYED:
			Mouth	G	0	0	0	2,000	500	
			Bay	G	0	0	0	5,000	0	
	08/14/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS IN STREAM AND MOUTH
			Mouth	G	0	0	0	3,000	0	
			Bay	P	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: THE 10000 P WERE BETWEEN THE MOUTH AND THE BEGINNING OF THE LAGOON
			Mouth	G	0	0	0	10,000	0	
			Bay	G	0	0	0	0	0	
	08/20/1997	Rod Campbell	Stream	G	0	0	0	5,500	2,500	DISTANCE SURVEYED:
			Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	10,000	0	
	08/26/1997	Rod Campbell	Stream	G	0	0	0	15,000	2,000	DISTANCE SURVEYED:
			Mouth	G	0	0	0	10,000	0	
			Bay	G	0	0	0	20,000	0	
	09/03/1997	Rod Campbell	Stream	F	0	0	0	22,000	4,800	DISTANCE SURVEYED: MOUTH & STREAM MURKY - PLUS 5000 SALMON CARCASSES - SPECIES ID DIFFICULT
			Mouth	F	0	0	0	3,000	0	
			Bay	F	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Windbound Bay, 281-2004										
	07/11/1997	Matt Ford	Stream	G	0	0	0	0	0	PARTIAL SURVEY, MOUTH PLUS 1ST 200 YDS, LOW WATER GOOD CONDITION
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	07/24/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: VERY LOW WATER, 7 SET NET BOATS IN AREA PLUS 12 ADDITIONAL SET NET BOATS BETWEEN 2004 & AMERICAN BAY.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	07/27/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER PLUS 200 PINK ALONG BEACH
			Mouth	G	0	0	0	50	0	
			Bay							
	08/01/1997	Rod Campbell	Stream	G	0	0	0	50	0	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	1,200	0	
	08/08/1997	Rod Campbell	Stream	G	0	0	0	600	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	50	0	
			Bay	G	0	0	0	1,500	0	
	08/14/1997	Jim Cofske	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: GOOD CONDITION
			Mouth	G	0	0	0	5,000	0	
			Bay	G	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	G	0	0	0	3,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	15,000	0	
			Bay	G	0	0	0	0	0	
	08/20/1997	Rod Campbell	Stream	F	0	0	0	10,000	0	DISTANCE SURVEYED: TURBULENT - LOW LIGHT CONDITIONS
			Mouth	F	0	0	0	8,000	0	
			Bay	F	0	0	0	3,500	0	
	08/26/1997	Rod Campbell	Stream	G	0	0	0	15,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	10,000	0	
			Bay	G	0	0	0	1,500	0	
	09/03/1997	Rod Campbell	Stream	G	0	0	0	20,000	0	DISTANCE SURVEYED: PLUS 5000 PINK SALMON CARCASSES
			Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Orzinski Bay, 281-3103	07/27/1997	Rod Campbell	Stream	G	0	800	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY BELOW LAKE PLUS 200 SOCKEYE AND 500 PINKS ALONG OUTSIDE BEACH INCLUDED IN BAY COUNT
			Mouth	G	0	200	0	100	0	
			Bay	G	0	200	0	500	0	
08/01/1997	Rod Campbell	Stream	G	0	28,000	0	800	0	DISTANCE SURVEYED: 28000 SOCKEYE ALONG ENTIRE SHORELINE OF LAKE - INLET STREAM ABOVE LAKE ALMOST DRY. LOW WATER	
		Mouth	G	0	0	0	100	0		
		Bay	G	0	0	0	500	0		
08/08/1997	Rod Campbell	Stream	G	0	0	0	3,600	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY & BELOW LAKE TURBULENT	
		Mouth	G	0	0	0	2,000	0		
		Bay	G	0	0	0	5,000	0		
08/14/1997	Jim Cofske	Stream	G	0	0	0	10,000	0	DISTANCE SURVEYED: SURVEY BELOW LAKE	
		Mouth	G	0	0	0	3,000	0		
		Bay	G	0	0	0	0	0		
08/16/1997	Jim Cofske	Stream	G	0	0	0	12,000	0	DISTANCE SURVEYED: PARTIAL SURVEY. LOWER PART ONLY. BAY WAS TOO CHOPPY TO SURVEY	
		Mouth	G	0	0	0	0	0		
		Bay	P	0	0	0	0	0		
08/26/1997	Rod Campbell	Stream	G	0	35,000	0	20,000	0	DISTANCE SURVEYED: REDS - ALONG ENTIRE SHORELINE OF LAKE . PLUS 500 RED CARCASSES	
		Mouth	G	0	0	0	10,000	0		
		Bay	G	0	0	0	15,000	0		
09/03/1997	Rod Campbell	Stream	G	0	30,500	0	25,000	0	DISTANCE SURVEYED: 30000 OF REDS IN LAKE - BALANCE IN INLET STREAM ABOVE LAKE - PLUS 2000 RED AND 500 PINK CARASSES	
		Mouth	G	0	0	300	500	0		
		Bay	G	0	0	0	0	0		
Little Norway, 281-3204	08/01/1997	Rod Campbell	Stream	G	0	0	0	1,500	0	DISTANCE SURVEYED: LOW WATER - EAST FORK DRY
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	5,000	0	
08/08/1997	Rod Campbell	Stream	F	0	0	0	5,000	1,000	DISTANCE SURVEYED: BAY & MOUTH MURKY - SPECIES ID DIFFICULT	
		Mouth	F	0	0	0	1,000	500		
		Bay	F	0	0	0	10,000	2,000		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	7,000	0	DISTANCE SURVEYED: 5000 P SEEN IN RIGHT TRIBUTARY		
	Mouth	G	0	0	0	8,000	0			
	Bay	F	0	0	0	3,000	0			
08/20/1997 Rod Campbell	Stream	G	0	0	0	16,500	1,500	DISTANCE SURVEYED: MOST OF FISH IN LOWER 1/3 OF STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	500	0			
08/26/1997 Rod Campbell	Stream	G	0	0	0	25,000	1,800	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	15,000	0			
Clark Bay Sw, 281-3205 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	50	0			
	Bay	G	0	0	0	0	0			
08/08/1997 Rod Campbell	Stream	F	0	0	0	1,500	300	DISTANCE SURVEYED: PARTIAL SURVEY - BAY MOUTH & LOWER		
	Mouth	F	0	0	0	1,000	0			
	Bay	F	0	0	0	3,000	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	1,100	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	6,000	0			
	Bay	G	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	F	0	0	0	12,000	0	DISTANCE SURVEYED: TURBULENT		
	Mouth	F	0	0	0	15,000	0			
	Bay	F	0	0	0	6,000	0			
08/26/1997 Rod Campbell	Stream	G	0	0	0	18,000	1,000	DISTANCE SURVEYED: MOUTH & BAY MURKY - MAY HAVE BEEN A FEW CHUM MIXED WITH PINKS		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	10,000	0			
Clark Bay Ne, 281-3206 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: STREAM DRY 500 PINKS MOVING ALONG BEACH		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	500	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Grub Gulch, 281-3207										
	08/01/1997		Stream	G	0	0	0	1,400	0	DISTANCE SURVEYED: ALL FISH IN LOWER STREAM NEAR MOUTH
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	1,500	0	
08/08/1997										
		Rod Campbell	Stream	P	0	0	0	3,000	1,000	DISTANCE SURVEYED: TURBULENT - MURKY WATER - SPECIES ID DIFFICULT
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	7,000	0	
08/16/1997										
		Jim Cofske	Stream	P	0	0	0	2,200	0	DISTANCE SURVEYED: GOOD CONDITION IN RIGHT TRIBUTARY - MAIN STREAM TOO MUDDY. FISH SEEN IN GRUB GULCH BAY
			Mouth	P	0	0	0	0	0	
			Bay	F	0	0	0	50,000	0	
08/20/1997										
		Rod Campbell	Stream	P	0	0	0	3,500	3,000	DISTANCE SURVEYED: PARTIAL SURVEY - CLEAR TRIBUTARY ONLY BAY, MOUTH & MAIN STREAM MUDDY, SPECIES ID DIFFICULT
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
08/26/1997										
		Rod Campbell	Stream	G	0	0	0	40,000	8,000	DISTANCE SURVEYED: BAY, MOUTH & LOWER 1/2 MILE OF STREAM MURKY - GOOD CONDITIONS IN BALANCE OF STREAM. MAY HAVE BEEN SOME CHUMS IN BAY & MOUTH COUNT.
			Mouth	F	0	0	0	200	0	
			Bay	F	0	0	0	1,500	0	
1st Str N Rock Wall, 281-3301										
07/24/1997										
		Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY, MOUTH AND CLEAR TRIBUTARY ONLY.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
08/01/1997										
		Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: BAY AND MOUTH MUDDY - CLEAR TRIB MURKY. PARTIAL SURVEY - BAY, MOUTH & CLEAR TRIBS ONLY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	100	0	
08/08/1997										
		Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH CHOPPY & MUDDY - CLEAR TRIB MURKY NO JUMPERS SEEN ALONG BEACH
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
08/16/1997										
		Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: TOO MUDDY TO SEE ANY FISH
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/28/1997	Rod Campbell	Stream	P	0	0	0	500	2,000	DISTANCE SURVEYED: PARTIAL SURVEY CLEAR TRIBS, MAINSTREAM MUDDY - COULD SEE FISH MOVING BUT SPECIES ID AND AN ACCURATE COUNT WERE NOT POSSIBLE. ALL FISH SEEN IN CLEAR TRIBUTARIES.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	09/12/1997	Rod Campbell	Stream	F	0	0	0	0	20,000	DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & CLEAR TRIBUTARIES ONLY, MOUTH MURKY, MAIN STEM MUDDY. PLUS 10000 CHUM CARCASSES - VERY LARGE FISH PLUS 3000 SALMON AT MOUTH SPLIT WITH 3302 - SPECIBS ID DIFFICULT.
			Mouth	P	0	0	0	150	0	
			Bay							
2nd Strm N Rock Wall, 281-3302	07/24/1997	Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY, MOUTH AND CLEAR TRIBUTARY ONLY. NO JUMPERS ALONG ROCK WALL.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/01/1997	Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH & CLEAR TRIB - MAIN STEM MUDDY CLEAR TRIB MURKY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	50	0	
	08/08/1997	Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH - CHOPPY & MUDDY - NORMALLY CLEAR TRIB MUDDY NO JUMPERS SEEN ALONG BEACH
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	F	0	0	0	50	0	DISTANCE SURVEYED: TRIBUTARY GOOD. MAIN RIVER TOO MUDDY PARTIAL SURVEY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/28/1997	Rod Campbell	Stream	P	0	0	0	500	2,000	DISTANCE SURVEYED: SEE REMARKS FOR 281-3301, PARTIAL SURVEY CLEAR TRIBS.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	09/12/1997	Rod Campbell	Stream	F	0	0	0	0	9,000	DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH AND CLEAR TRIBUTARIES ONLY. MOUTH MURKY, MAINSTEM MUDDY PLUS 1000 CHUM CARCASSES AND 300 SALMON AT MOUTH SPLIT WITH 3301 - SPECIES ID DIFFICULT AT MOUTH.
			Mouth	P	0	0	0	150	0	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks	
					Chinook	Sockeye	Coho	Pink	Chum		
Louie's Corner, 281-3303											
	07/24/1997	Rod Campbell	Stream								
			Mouth	P	0	0	0	0	0		DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH ONLY, BOTH WERE VERY MUDDY. NO JUMPERS ALONG BEACH
			Bay	P	0	0	0	0	0		
	08/01/1997	Rod Campbell	Stream								
			Mouth	P	0	0	0	0	0		DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & BAY ONLY. MAIN STEM MUDDY - NORMALLY CLEAR TRIB
			Bay	P	0	0	0	5,000	2,500		MURKY 10000 PINK & 5000 CHUM ALONG BEACH DIVIDED BETWEEN 3303 & 3304
	08/08/1997	Rod Campbell	Stream	P	0	0	0	0	0		DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH
			Mouth	P	0	0	0	0	0		CHOPPY & MUDDY - NORMALLY CLEAR TRIB MUDDY. NO
			Bay	P	0	0	0	0	0		JUMPERS SEEN ALONG BEACH
	08/16/1997	Jim Cofske	Stream	P	0	0	0	0	0		DISTANCE SURVEYED: TOO MUDDY
			Mouth	P	0	0	0	0	0		
			Bay	P	0	0	0	0	0		
	08/28/1997	Rod Campbell	Stream	P	0	0	0	8,500	12,000		DISTANCE SURVEYED: PARTIAL SURVEY CLEAR TRIBS,
			Mouth	P	0	0	0	0	0		MAINSTREAM MUDDY - COULD SEE FISH MOVING BUT
			Bay	P	0	0	0	0	0		SPECIES ID AND ACCURATE COUNT WERE NOT POSSIBLE. ALL FISH SEEN IN CLEAR TRIBUTARIES PLUS 200 CHUM CARCASSES.
	09/12/1997	Rod Campbell	Stream	P	0	0	0	2,000	1,500		DISTANCE SURVEYED: PARTIAL SURVEY - CLEAR
			Mouth								TRIBUTARY ONLY - MAINSTEM MUDDY PLUS 2500 CHUM
			Bay								CARCASSES.
Big River, 281-3304											
	07/24/1997	Rod Campbell	Stream	G	0	0	0	0	450		DISTANCE SURVEYED: NO JUMPERS ALONG BEACH
			Mouth	F	0	0	0	0	0		
			Bay	F	0	0	0	0	0		
	08/01/1997	Rod Campbell	Stream	P	0	0	0	0	400		DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH & BAY
			Mouth	P	0	0	0	0	0		ONLY - MAIN STEM MUDDY & CLEAR TRIBS. ALL CHUM IN
			Bay	P	0	0	0	5,000	2,500		CLEAR TRIB.
	08/08/1997	Rod Campbell	Stream								DISTANCE SURVEYED: PARTIAL SURVEY, MUDDY WATER
			Mouth	P	0	0	0	0	0		NO JUMPERS SEEN ALONG BEACH, BAY CHOPPY
			Bay	P	0	0	0	0	0		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/16/1997	Jim Cofske	Stream	G	0	0	0	0	100	DISTANCE SURVEYED: PARTIAL SURVEY. SURVEYED LEFT TRIBUTARY ONLY. MAIN RIVER TOO MUDDY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/28/1997	Rod Campbell	Stream	P	0	0	0	5,000	5,000	DISTANCE SURVEYED: SEE REMARKS FOR 281-3303, PARTIAL SURVEY - CLEAR TRIBS. FISH IN MOUTH COUNT WERE IN LAGOON NEAR MOUTH
			Mouth	P	0	0	0	20,000	5,000	
			Bay	P	0	0	0	0	0	
	09/12/1997	Rod Campbell	Stream	F	0	0	0	20,000	15,000	DISTANCE SURVEYED: PARTIAL SURVEY CLEAR TRIBUTARIES ONLY - MAINSTEM MUDDY PLUS 3500 SALMON CARCASSES.
			Mouth							
			Bay							
Stepovak River, 281-3305	07/24/1997	Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY, MOUTH AND LOWER 1/2 MILE OF STREAM. ALL VERY MUDDY. NO JUMPERS BUT DID OBSERVE 5 SEALS NEAR MOUTH.
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/08/1997	Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - BAY & MOUTH CHOPPY & MUDDY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: TRIBUTARY CLOUDY, MAIN RIVER CLOUDY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/28/1997	Rod Campbell	Stream	P	0	0	0	1,200	20,000	DISTANCE SURVEYED: PARTIAL SURVEY CLEAR TRIBS - MAINSTREAM MUDDY - COULD SEE FISH MOVING BUT UNABLE TO GET ACCURATE COUNT OR SPECIES ID. PLUS 1500 CHUM CARCASSES
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	09/12/1997	Rod Campbell	Stream	F	0	0	0	15,000	45,000	DISTANCE SURVEYED: PARTIAL SURVEY - CLEAR TRIBUTARIES ONLY PLUS 20,000 SALMON CARCASSES.
			Mouth							
			Bay							
Granville Portage, 281-3306	08/01/1997	Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEYS - CLEAR TRIBS ONLY BAY & MOUTH MUDDY. JUMPERS IN BAY AND ALONG BEACH.
			Mouth							
			Bay							

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: BAY & MOUTH REAL CLOUDY		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	500	1,300	DISTANCE SURVEYED: ALL FISH IN SLOUGH - WHICH WAS MURKY IN PLACES.		
	Mouth									
	Bay									
09/12/1997 Rod Campbell	Stream	F	0	0	0	5,000	4,000	DISTANCE SURVEYED: MURKY WATER IN PLACES.		
	Mouth									
	Bay									
Granville Bay, 281-3401 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH OR JUMPERS SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/08/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - TURBULENT & LOW LIGHT		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: CLOUDY IN MOUTH OF RIVER		
	Mouth	F	0	0	0	2,000	0			
	Bay	P	0	0	0	0	0			
08/24/1997 Rod Campbell	Stream	P	0	0	0	10,000	2,000	DISTANCE SURVEYED: PARTIAL SURVEY VERY TURBULENT- PLUS BAY MURKY - BUT LOTS OF JUMPERS OFF MOUTH AND ALONG BEACH SPECIES ID DIFFICULT		
	Mouth	P	0	0	0	1,500	0			
	Bay	P	0	0	0	0	15,000			
08/28/1997 Rod Campbell	Stream	F	0	0	0	12,500	3,000	DISTANCE SURVEYED: LOW LIGHT CONDITIONS.		
	Mouth	F	0	0	0	5,000	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	20,000	8,000	DISTANCE SUREYED: PLUS 5000 SALMON CARCASSES 7000 OF PINKS WERE IN THE LAGOON.		
	Mouth	G	0	0	300	0	0			
	Bay	G	0	0	0	500	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Osterback's Creek, 281-3402										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	0	0	
08/08/1997										
		Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - TURBULENT & LOW LIGHT
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	500	0	
08/16/1997										
		Jim Cofske	Stream	G	0	0	0	1,000	0	DISTANCE SURVEYED: CLOUDY IN BAY
			Mouth	G	0	0	0	1,000	0	
			Bay	P	0	0	0	0	0	
08/24/1997										
		Rod Campbell	Stream	F	0	0	0	6,700	0	DISTANCE SURVEYED: TURBULENT
			Mouth	F	0	0	0	300	0	
			Bay	F	0	0	0	500	0	
08/28/1997										
		Rod Campbell	Stream	F	0	0	0	12,000	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS
			Mouth	F	0	0	0	1,000	0	
			Bay	F	0	0	0	1,500	0	
09/12/1997										
		Rod Campbell	Stream	F	0	0	0	22,500	0	DISTANCE SURVEYED: DARK STREAM BED - COUNT MAY BE LOW
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Stonehouse, 281-3403										
08/01/1997										
		Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
08/08/1997										
		Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - TURBULENT & LOW LIGHT CONDITIONS
			Mouth	P	0	0	0	300	0	
			Bay	P	0	0	0	300	0	
08/16/1997										
		Jim Cofske	Stream	G	0	0	0	200	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	4,000	0	
			Bay	G	0	0	0	500	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Socketeye	Coho	Pink	Chum	
08/24/1997 Rod Campbell	Stream	F	0	0	0	5,500	0	DISTANCE SURVEYED: TURBULENT		
	Mouth	F	0	0	0	300	0			
	Bay	F	0	0	0	1,500	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	16,000	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS PLUS 500 PINK CARCASSES		
	Mouth	F	0	0	0	8,000	0			
	Bay	F	0	0	0	5,000	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	25,000	3,000	DISTANCE SURVEYED: PLUS 2500 PINK CARCASSES - ABANDONED FISHING VESSEL ON ROCKS JUST WEST OF STREAM.		
	Mouth	G	0	0	0	1,500	0			
	Bay	G	0	0	0	5,000	0			
Island Bay 3404, 281-3404 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: 5 JUMPERS IN BAY		
	Mouth	G	0	0	0	50	0			
	Bay	G	0	0	0	100	0			
08/08/1997 Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT LOW LIGHT CONDITIONS		
	Mouth	F	0	0	0	100	0			
	Bay	F	0	0	0	1,000	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	2,000	0			
	Bay	G	0	0	0	0	0			
08/24/1997 Rod Campbell	Stream	F	0	0	0	900	0	DISTANCE SURVEYED: TURBULENT		
	Mouth	F	0	0	0	1,500	0			
	Bay	F	0	0	0	0	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	1,000	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE		
	Mouth	F	0	0	0	1,000	0			
	Bay	F	0	0	0	1,000	0			
09/12/1997 Rod Campbell	Stream	F	0	0	0	1,600	0	DISTANCE SURVEYED: LOW LIGHT IN STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Island Bay 3405, 281-3405										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/08/1997		Stream	F	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT & LOW LIGHT CONDITIONS
		Rod Campbell	Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
	08/16/1997		Stream	G	0	0	0	200	0	DISTANCE SURVEYED:
		Jim Cofske	Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	2,000	0	
	08/24/1997		Stream	F	0	0	0	1,500	0	DISTANCE SURVEYED: TURBULENT 10000 PINKS AT MOUTH SPLIT WITH 3406 - 5000 PINKS IN BAY COUNT WERE OFF MOUTH OF UNMARKED STREAM WEST OF 3405.
		Rod Campbell	Mouth	F	0	0	0	5,000	0	
			Bay	F	0	0	0	5,000	0	
	08/28/1997		Stream	F	0	0	0	5,800	0	DISTANCE SURVEYED: FUTURE SHOULD COMBINE 3405 & 3406 SINCE THEY SHARE A COMMON MOUTH FAIR CONDITIONS. LOW LIGHT AND DRIZZLE. 15000 PINKS IN BAY AND 1000 PINKS AT MOUTH SPLIT WITH 3406
		Rod Campbell	Mouth	F	0	0	0	500	0	
			Bay	F	0	0	0	7,500	0	
	09/12/1997		Stream	G	0	0	0	15,000	0	DISTANCE SURVEYED: 5000 PINKS IN BAY & 200 PINKS AT MOUTH SPLIT WITH 281-3406 - PLUS 1000 PINK CARCASSES.
		Rod Campbell	Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	2,500	0	
Island Bay 3406, 281-3406										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/08/1997		Stream	F	0	0	0	10	0	DISTANCE SURVEYED: TURBULENT & LOW LIGHT CONDITIONS
		Rod Campbell	Mouth	F	0	0	0	300	0	
			Bay	F	0	0	0	800	0	
	08/16/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: BAY AND MOUTH COUNTS HAVE BEEN SPLIT WITH 281-3405
		Jim Cofske	Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	2,000	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/24/1997 Rod Campbell	Stream	F	0	0	0	3,000	0	DISTANCE SURVEYED: TURBULENT 10000 PINKS AT MOUTH SPLIT WITH 3405		
	Mouth	F	0	0	0	5,000	0			
	Bay	F	0	0	0	5,000	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	5,000	0	DISTANCE SURVEYED: SEE REMARKS FOR 281-3405		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	7,500	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	9,000	0	DISTANCE SURVEYED: 5000 PINKS IN BAY AND 200 PINKS AT MOUTH SPLIT WITH 281-3405 PLUS 200 PINK CARCASSES.		
	Mouth	G	0	0	0	100	0			
	Bay	G	0	0	0	2,500	0			
Island Bay 3407, 281-3407 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	2,500	0			
08/24/1997 Rod Campbell	Stream	F	0	0	0	500	0	DISTANCE SURVEYED: TURBULENT		
	Mouth	F	0	0	0	150	0			
	Bay	F	0	0	0	2,500	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	1,500	0	DISTANCE SURVEYED: LOW LIGHT AND DRIZZLE PLUS 500 PINK CARCASSES		
	Mouth	F	0	0	0	1,000	0			
	Bay	F	0	0	0	2,000	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	2,100	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	300	0			
	Bay	G	0	0	0	0	0			
Island Bay 3408, 281-3408 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/08/1997 Rod Campbell	Stream	P	0	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT, CHOPPY WATER - LOW LIGHT CONDITIONS	
	Mouth	P	0	0	0	0	0	0		
	Bay	P	0	0	0	0	0	0		
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED:	
	Mouth	G	0	0	0	3,000	0	0		
	Bay	G	0	0	0	2,000	0	0		
08/24/1997 Rod Campbell	Stream	F	0	0	0	3,000	0	0	DISTANCE SURVEYED: TURBULENT A FEW PINK CARCASSES	
	Mouth	F	0	0	0	3,000	0	0		
	Bay	F	0	0	0	0	0	0		
08/28/1997 Rod Campbell	Stream	F	0	0	0	3,800	0	0	DISTANCE SURVEYED: LOW LIGHT AND DRIZZLE PLUS 500 PINK CARCASSES	
	Mouth	F	0	0	0	500	0	0		
	Bay	F	0	0	0	2,000	0	0		
09/12/1997 Rod Campbell	Stream	G	0	0	0	4,500	0	0	DISTANCE SURVEYED: PLUS 500 PINK CARCASSES.	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
Fox Bay 3501, 281-3501 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: NO FISH SEEN	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
08/08/1997 Rod Campbell	Stream	F	0	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT, LOW LIGHT CONDITIONS	
	Mouth	F	0	0	0	0	0	0		
	Bay	F	0	0	0	0	0	0		
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER	
	Mouth	G	0	0	0	2,000	0	0		
	Bay	G	0	0	0	0	0	0		
08/28/1997 Rod Campbell	Stream	F	0	0	0	100	0	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE	
	Mouth	F	0	0	0	1,000	0	0		
	Bay	F	0	0	0	0	0	0		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Fox Bay 3502, 281-3502										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	50	0	
08/08/1997										
		Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT - LOW LIGHT CONDITIONS
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
08/16/1997										
		Jim Cofske	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	3,000	0	
			Bay	G	0	0	0	2,000	0	
08/24/1997										
		Rod Campbell	Stream	F	0	0	0	8,000	0	DISTANCE SURVEYED: TURBULENT PLUS 500 PINK CARCASSES
			Mouth	F	0	0	0	300	0	
			Bay	F	0	0	0	10,000	0	
08/28/1997										
		Rod Campbell	Stream	F	0	0	0	10,800	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE PLUS 1000 PINK CARCASSES
			Mouth	F	0	0	0	1,000	0	
			Bay	F	0	0	0	5,000	0	
09/12/1997										
		Rod Campbell	Stream	G	0	0	0	20,000	0	DISTANCE SURVEYED: PLUS 5000 PINK CARCASSES
			Mouth	G	0	0	0	500	0	
			Bay	G	0	0	0	3,000	0	
Fox Bay 3504, 281-3504										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: NOTHING IN STREAM OR LAGOON
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	200	0	
08/08/1997										
		Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT, LOW LIGHT CONDITIONS
			Mouth	F	0	0	0	250	0	
			Bay	F	0	0	0	0	0	
08/16/1997										
		Jim Cofske	Stream	G	0	0	0	50	0	DISTANCE SURVEYED: LOW WATER
			Mouth	G	0	0	0	6,000	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/24/1997 Rod Campbell	Stream	P	0	0	0	1,500	700	DISTANCE SURVEYED: TURBULENT - HIGH ALTITUDE SURVEY		
	Mouth	P	0	0	0	500	0			
	Bay	P	0	0	0	3,000	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	3,000	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE - DARK STREAM BED PLUS 1000 PINK CARCASSES.		
	Mouth	F	0	0	0	3,000	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	8,500	0	DISTANCE SURVEYED: PLUS 1500 PINK CARCASSES		
	Mouth	G	0	0	0	300	0			
	Bay	G	0	0	0	150	0			
Fox Bay 3505, 281-3505 08/01/1997 Rod Campbell	Stream	G	0	0	0	50	0	DISTANCE SURVEYED: 3 JUMPERS IN BAY - BEAR AT MOUTH OF STREAM - HE LOOKED PRETTY SKINNY		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	3,000	0	DISTANCE SURVEYED: FISH MOSTLY IN STREAM BETWEEN BAY AND LAGOON. SEVERAL ALONG EDGE OF LAGOON, LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/24/1997 Rod Campbell	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: TURBULENT - STREAM COUNT PROBABLY LOW PLUS A FEW PINK CARCASSES		
	Mouth	P	0	0	0	5,000	0			
	Bay	P	0	0	0	3,000	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	3,500	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE PLUS 100 PINK CARCASSES		
	Mouth	F	0	0	0	3,000	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	6,500	0	DISTANCE SURVEYED: 3000 OF PINKS WERE IN THE LAGOON, PLUS 1000 PINK CARCASSES		
	Mouth	G	0	0	0	150	0			
	Bay	G	0	0	0	300	0			
Boulder Bay, 281-3506 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	50	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: LOW WATER		
	Mouth	G	0	0	0	7,000	0			
	Bay	G	0	0	0	0	0			
08/24/1997 Rod Campbell	Stream	P	0	0	0	800	1,000	DISTANCE SURVEYED: VERY TRUBULENT - HIGH ALTITUDE SURVEY		
	Mouth	P	0	0	0	500	0			
	Bay	P	0	0	0	2,000	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	2,500	1,000	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE PLUS 150 SALMON CARCASSES		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	6,000	2,000	DISTANCE SURVEYED: PLUS 2500 SALMON CARCASSES.		
	Mouth	G	0	0	0	500	0			
	Bay	G	0	0	0	500	0			
Near Bluff Point, 281-3507 08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOG JAM AT STREAM MOUTH NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: LOW WATER		
	Mouth	G	0	0	0	4,000	0			
	Bay	G	0	0	0	0	0			
08/24/1997 Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: VERY TURBULENT - HIGH ALTITUDE SURVEY		
	Mouth	P	0	0	0	1,500	0			
	Bay	P	0	0	0	0	0			
08/28/1997 Rod Campbell	Stream	F	0	0	0	100	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & DRIZZLE - MOUTH COUNT FISH WERE ON BEACH - JUST OFF MOUTH TRYING TO GET IN STREAM. STREAM MOUTH WAS BLOCKED		
	Mouth	F	0	0	0	1,500	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	2,800	0	DISTANCE SURVEYED: STREAM MOUTH IS OPEN AGAIN PLUS 3500 PINK CARCASSES		
	Mouth	G	0	0	0	100	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Smiley's Creek, 281-7004										
	07/27/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & LOWER 1/4 MILE OF STREAM. 5000 PINKS ALONG BEACH BETWEEN 7004 & BEAVER RIVER. LOW WATER
			Mouth	G	0	0	0	0	0	
			Bay							
	08/01/1997	Rod Campbell	Stream	G	0	0	0	400	0	DISTANCE SURVEYED: BAY MURKY - 10000 PINKS ALONG BEACH BETWEEN 7004 & 7005 DIVIDED BETWEEN TWO STREAMS
			Mouth	P	0	0	0	0	0	
			Bay	F	0	0	0	5,000	0	
	08/08/1997	Rod Campbell	Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED: BAY & MOUTH MURKY - JUMPERS AND 8000 PINKS ALONG BEACH IN BAY COUNT
			Mouth	P	0	0	0	1,000	0	
			Bay	P	0	0	0	8,000	0	
	08/13/1997	Jim Cofske	Stream	G	0	0	0	21,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	10,000	0	
			Bay	G	0	0	0	75,000	0	
	08/19/1997	Rod Campbell	Stream	G	0	0	0	30,000	0	DISTANCE SURVEYED: BAY MUDDY
			Mouth	G	0	0	0	500	0	
			Bay	P	0	0	0	0	0	
	08/26/1997	Rod Campbell	Stream	G	0	0	0	35,000	0	DISTANCE SURVEYED: BAY MURKY - PLUS 5000 PINK CARCASSES. STREAM IS FULL
			Mouth	G	0	0	0	10,000	0	
			Bay	F	0	0	0	0	0	
Beaver River, 281-7005										
	07/07/1997	Rod Campbell	Stream	G	0	0	0	0	1,200	DIST SURVEYED: PARTIAL SURVEY MOUTH & FIRST 1/2 MILE OF STREAM
			Mouth	G	0	0	0	0	0	
			Bay							
	07/27/1997	Rod Campbell	Stream	G	0	0	0	500	4,500	DISTANCE SURVEYED: HIGH NUMBER OF DOLLY VARDEN PLUS 3000 PINK & 500 CHUM ALONG BEACH
			Mouth	G	0	0	0	0	0	
			Bay							
	07/29/1997	Rod Campbell	Stream	G	0	0	0	2,200	4,500	DISTANCE SURVEYED: BAY MURKY - DIFFICULT TO ID SPECIES BECAUSE OF THOUSANDS OF DOLLY VARDEN - ALL PINKS IN LOWER SECTION OF STREAM.
			Mouth	G	0	0	0	300	0	
			Bay	P	0	0	0	0	0	

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/01/1997 Rod Campbell	Stream	G	0	0	0	3,600	5,000	DISTANCE SURVEYED: BAY MURKY - 10000 PINKS ALONG THE BEACH BETWEEN 7005 & 7004 COUNTED IN BAY AND DIVIDED BETWEEN TWO STREAMS		
	Mouth	G	0	0	0	0	0			
	Bay	F	0	0	0	5,000	0			
08/08/1997 Rod Campbell	Stream	G	0	0	0	10,000	6,000	DISTANCE SURVEYED: BAY & MOUTH MURKY		
	Mouth	F	0	0	0	3,000	0			
	Bay	F	0	0	0	5,000	0			
08/13/1997 Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: STREAM TOO MUDDY TO SURVEY		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	P	0	0	0	12,000	8,000	DISTANCE SURVEYED: PARTIAL SURVEY, CLEAR TRIBUTORIES ONLY - MOUTH AND MAIN STEM MUDDY - COULD SEE FISH MOVING BUT AN ACCURATE COUNT WAS NOT POSSIBLE.		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/28/1997 Jim Cofske	Stream	F	0	0	0	10,000	0	DISTANCE SURVEYED: PARTIAL SURVEY. THE MAIN RIVER WAS TOO CLOUDY TO SEE MUCH. 10000 PINKS WERE SEEN IN CLEAR TRIBUTARIES.		
	Mouth	F	0	0	0	0	0			
	Bay									
Cape Aliaksin, West, 281-8004	07/24/1997	Rod Campbell	Stream						DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH ONLY PLUS 350 PINKS ALONG BEACH BETWEEN 8005 & 8004	
			Mouth	G	0	0	0	50		0
			Bay							
07/27/1997	Rod Campbell		Stream						DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & BEACH ONLY PLUS 1000 PINKS ALONG BEACH BETWEEN 8005 & 8004 LOW WATER	
			Mouth	G	0	0	0	100		0
			Bay							
08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER - 5000 PINKS (BAY COUNT) WERE ALONG BEACH BETWEEN 8004 & 8005		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	5,000	0			
08/08/1997 Rod Campbell	Stream	G	0	0	0	3,500	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	0	0			
	Bay	F	0	0	0	500	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/13/1997 Jim Cofske	Stream	G	0	0	0	9,000	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	10,000	0			
08/16/1997 Jim Cofske	Stream	F	0	0	0	10,000	0	DISTANCE SURVEYED: DARK IN STREAM, FISH IN THE BAY WERE LOCATED WEST OF RIVER		
	Mouth	G	0	0	0	6,000	0			
	Bay	G	0	0	0	2,000	0			
08/26/1997 Rod Campbell	Stream	G	0	0	0	25,000	0	DISTANCE SURVEYED: BAY COUNT INCLUDES 15000 PINKS WEST OF 8004, AND 5000 PINKS DIVIDED BETWEEN 8004 & 8005. GOOD ESCAPEMENT PLUS 5000 PINK CARCASSES		
	Mouth	G	0	0	0	15,000	0			
	Bay	G	0	0	0	17,500	0			
Cape Aliaksin, Cntr, 281-8005 07/24/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY MOUTH ONLY PLUS 300 PINKS ALONG BEACH BETWEEN 8006 & 8005		
	Mouth	G				100				
	Bay									
07/27/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & BEACH ONLY, SEE ENTRY FOR 8006 & 8004. LOW WATER		
	Mouth	G	0	0	0	200	0			
	Bay									
08/01/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER - 5000 PINKS ALONG BEACH BETWEEN 8005 & 8006 (2500 EACH IN BAY COUNTS)		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	2,500	0			
08/08/1997 Rod Campbell	Stream	G	0	0	0	500	0	DISTANCE SURVEYED:		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
08/13/1997 Jim Cofske	Stream	G	0	0	0	100	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	100	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	F	0	0	0	600	0	DISTANCE SURVEYED: DARK IN STREAM		
	Mouth	G	0	0	0	700	0			
	Bay	G	0	0	0	0	0			
08/26/1997 Rod Campbell	Stream	G	0	0	0	9,500	0	DISTANCE SURVEYED: 5000 PINKS IN BAY, DIVIDED WITH 8004 PLUS 500 PINK CARCASSES		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	2,500	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Cape Aliaksin, East, 281-8006										
	07/24/1997	Rod Campbell	Stream Mouth Bay	G	0	0	0	200	0	DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH ONLY PLUS 500 PINK SALMON ALONG BEACH EAST OF 8006
	07/27/1997	Rod Campbell	Stream Mouth Bay	G	0	0	0	100	0	DISTANCE SURVEYED: PARTIAL SURVEY MOUTH & BEACH ONLY - PLUS 1600 PINKS ALONG BEACH BETWEEN 8006 & 8005 LOW WATER
	08/01/1997	Rod Campbell	Stream Mouth Bay	G G G	0 0 0	0 0 0	0 0 0	0 0 2,500	0 0 0	DISTANCE SURVEYED: LOW WATER 5000 PINKS ALONG BEACH DIVIDED BETWEEN 8006 & 8005
	08/08/1997	Rod Campbell	Stream Mouth Bay	G F F	0 0 0	0 0 0	0 0 0	2,000 0 800	0 0 0	DISTANCE SURVEYED:
	08/13/1997	Jim Cofske	Stream Mouth Bay	G G G	0 0 0	0 0 0	0 0 0	6,000 0 2,000	0 0 0	DISTANCE SURVEYED: GOOD CONDITIONS
	08/16/1997	Jim Cofske	Stream Mouth Bay	G G G	0 0 0	0 0 0	0 0 0	14,000 2,000 0	0 0 0	DISTANCE SURVEYED: GOOD CONDITIONS, STREAM LOOKS FULL
	08/26/1997	Rod Campbell	Stream Mouth Bay	G G G	0 0 0	0 0 0	0 0 0	28,000 800 500	0 0 0	DISTANCE SURVEYED: PLUS 2000 PINK CARCASSES - STREAM IS FULL
Lefthand Bay Kagayan, 281-8008										
	07/27/1997	Rod Campbell	Stream Mouth Bay	G	0	0	0	0	0	DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH ONLY, 25000 PINKS ALONG BEACH AND OFF STREAM MOUTH LOW WATER
	07/29/1997	Rod Campbell	Stream Mouth Bay	G	0	0	0	5,000	0	DISTANCE SURVEYED: PARTIAL SURVEY - BAY ONLY - ALL PINKS BETWEEN 8008 & 8009 - LESS FISH THAN SEEN ON 7/27 SURVEY - MIGHT HAVE MOVED INTO DEEP WATER

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/01/1997 Rod Campbell	Stream	G	0	0	0	2,000	1,500	DISTANCE SURVEYED: PLUS 10000 PINK & 1500 CHUM ALONG BEACH (DIVIDED BETWEEN 8008 & 8009)		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	5,000	750			
08/08/1997 Rod Campbell	Stream	F	0	0	0	1,600	0	DISTANCE SURVEYED: PARTIAL SURVEY CLEAR TRIB & MOUTH ONLY. MAIN STREAM MURKY		
	Mouth	F	0	0	0	800	0			
	Bay	F	0	0	0	500	0			
08/13/1997 Jim Cofske	Stream	P	0	0	0	20	0	DISTANCE SURVEYED: LBFT FORK GOOD CONDITION: 200 P MAIN FORK TOO MUDDY		
	Mouth	G	0	0	0	200	0			
	Bay	G	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	F	0	0	0	5,000	2,600	DISTANCE SURVEYED: STREAM MURKY IN PLACES - COUNT PROBABLY LOW		
	Mouth	F	0	0	0	0	0			
	Bay									
08/28/1997 Jim Cofske	Stream	F	0	7	0	17,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN STREAM; OVERCAST SKIES AND SEMICLOUDY CREEK.		
	Mouth	G	0	0	0	1,000	0			
	Bay									
09/13/1997 Rod Campbell	Stream	F	0	0	0	18,000	2,000	DISTANCE SURVEYED: MAIN STEM MURKY - COUNT PROBABLY LOW - SPECIES ID IN MAIN STEM DIFFICULT - PROBABLY SOME COHO IN LOWER PORTION OF STREAM. PLUS 2000 SALMON CARCASSES.		
	Mouth	F	0	0	100	0	0			
	Bay	F	0	0	300	0	0			
Foster Creek, 281-8009 07/27/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PLUS 15000 PINKS ALONG BEACH BETWEEN 8008 & 8009		
	Mouth	G	0	0	0	0	0			
	Bay	G								
08/01/1997 Rod Campbell	Stream	G	0	0	0	900	0	DISTANCE SURVEYED: 10000 PINKS AND 1500 CHUM ALONG BEACH DIVIDED BETWEEN 8008 & 8009		
	Mouth	G	0	0	0	200	0			
	Bay	G	0	0	0	5,000	750			
08/08/1997 Rod Campbell	Stream	G	0	0	0	4,500	300	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	2,500	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/13/1997 Jim Cofske	Stream	G	0	0	0	15,000	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	8,000	0			
	Bay	G	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	G	0	0	0	38,000	1,000	DISTANCE SURVEYED: A FEW SALMON CARCASSES IN STREAM		
	Mouth	G	0	0	0	1,000	0			
	Bay	G	0	0	0	2,500	0			
08/28/1997 Jim Cofske	Stream	G	0	0	0	31,000	0	DISTANCE SURVEYED: GOOD CONDITIONS 5,000 CARCASSES		
	Mouth	G	0	0	0	5,000	0			
	Bay									
09/13/1997 Rod Campbell	Stream	G	0	0	0	28,000	3,300	DISTANCE SURVEYED: UPPER 1/3 OF STREAM IN SHADOWS - COUNT MAY BE LOW - PLUS 3500 SALMON CARCASSES.		
	Mouth	E	0	0	0	300	0			
	Bay	E	0	0	0	0	0			
Monolith Pt. Creek, 281-8011										
08/01/1997 Rod Campbell	Stream	G	0	0	0	150	0	DISTANCE SURVEYED: PLUS 3500 PINKS BETWEEN 8011 & 8009		
	Mouth	G	0	0	0	1,000	0			
	Bay	G	0	0	0	3,500	0			
08/08/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY TURBULENT		
	Mouth	G	0	0	0	200	0			
	Bay	F	0	0	0	0	0			
08/13/1997 Jim Cofske	Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	F	0	0	0	800	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	0	0			
08/28/1997 Jim Cofske	Stream	G	0	0	0	5,000	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	4,000	0			
	Bay									
09/13/1997 Rod Campbell	Stream	F	0	0	0	6,200	0	DISTANCE SURVEYED: STREAM IN SHADOWS PLUS 1000 PINK CARCASSES.		
	Mouth	E	0	0	0	75	0			
	Bay	E	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks	
					Chinook	Sockeye	Coho	Pink		Chum
Foster's Camp Creek, 281-8012										
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	200	0	
	08/08/1997		Stream							DISTANCE SURVEYED: TURBULENT - PARTIAL SURVEY BAY & MOUTH ONLY
		Rod Campbell	Mouth	F	0	0	0	100	0	
			Bay	F	0	0	0	0	0	
	08/19/1997		Stream	F	0	0	0	300	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS
		Rod Campbell	Mouth	F	0	0	0	0	0	
			Bay							
	09/13/1997		Stream	F	0	0	0	1,500	0	DISTANCE SURVEYED: STREAM IN SHADOWS AND OVER GROWN WITH VEGETATION COUNT MAY BE LOW PLUS 150 PINK CARCASSES.
		Rod Campbell	Mouth	E	0	0	0	150	0	
			Bay	E	0	0	0	0	0	
Johnson Creek, 281-8014										
	08/01/1997		Stream	G	0	0	0	100	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	700	0	
			Bay	G	0	0	0	1,500	0	
	08/08/1997		Stream	F	0	0	0	600	0	DISTANCE SURVEYED: PARTIAL SURVEY . TURBULENT - BAY, MOUTH & LOWER 1/2 MILE OF STREAM
		Rod Campbell	Mouth	F	0	0	0	100	0	
			Bay	F	0	0	0	500	0	
	08/13/1997		Stream	G	0	0	0	13,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
		Jim Cofske	Mouth	G	0	0	0	3,000	0	
			Bay	G	0	0	0	0	0	
	08/19/1997		Stream	G	0	0	0	7,500	500	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	700	300	
			Bay	G	0	0	0	4,000	1,000	
	08/28/1997		Stream	G	0	0	0	9,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
		Jim Cofske	Mouth	G	0	0	0	5,000	1,000	
			Bay		0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bilty	Species					Observer Remarks
					Chinook	Socketeye	Coho	Pink	Chum	
	09/13/1997	Rod Campbell	Stream	G	0	0	0	15,000	3,000	DISTANCE SURVEYED: PARTS OF STREAM IN SHADOWS COUNT MAY BE LOW PLUS 1000 SALMON CARCASSES AND 5500 CHUM IN FLATS (BAY). PROBABLY SOME COHO COUNTED AS CHUM IN BAY.
			Mouth	E	0	0	0	0	0	
			Bay	E	0	0	0	0	5,500	
Coleman Creek, 281-8015	08/01/1997	Rod Campbell	Stream	G	0	0	0	0	500	DISTANCE SURVEYED: PLUS 150 PINK & 50 CHUM IN FLATS COUNTED IN BAY
			Mouth	G	0	0	0	50	0	
			Bay	G	0	0	0	150	50	
	08/08/1997	Rod Campbell	Stream	F	0	0	0	400	600	DISTANCE SURVEYED: TURBULANT - 500 PINKS ON FLATS COUNTED IN BAY
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	500	0	
	08/13/1997	Jim Cofske	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/19/1997	Rod Campbell	Stream	G	0	0	0	1,000	600	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/28/1997	Jim Cofske	Stream	G	0	0	0	10,000	200	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	2,500	2,500	
			Bay							
	09/13/1997	Rod Campbell	Stream	G	0	0	0	15,000	3,600	DISTANCE SURVEYED: PLUS 2000 SALMON CARCASSES. PROBABLY SOME COHO COUNTED AS CHUM IN BAY.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	5,000	
Ballast Is. Stream, 281-8016	08/01/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	800	0	
	08/08/1997	Rod Campbell	Stream	F	0	0	0	50	0	DISTANCE SURVEYED: TURBULENT
			Mouth	F	0	0	0	150	0	
			Bay	F	0	0	0	300	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/13/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS. NO FISH SEEN	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
08/19/1997 Rod Campbell	Stream	F	0	0	0	150	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
08/28/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	0	0			
	Bay									
09/13/1997 Rod Campbell	Stream	G	0	0	0	150	0	DISTANCE SURVEYED: A FEW CARCASSES		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
Swedania Pt. Stream, 281-9001	07/24/1997	Rod Campbell	Stream						DISTANCE SURVEYED: PARTIAL SURVEY MOUTH ONLY	
08/01/1997 Rod Campbell	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: 150 PINKS ALONG BEACH COUNTED IN BAY. LOG JAM AT MOUTH BUT FISH MANAGE TO GET INTO STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	150	0			
08/08/1997 Rod Campbell	Stream	F	0	0	0	300	0	DISTANCE SURVEYED: TURBULENT		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	1,000	0			
08/12/1997 Jim Cofske	Stream	G	0	0	0	600	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	5,000	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	1,600	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	2,000	0			
	Bay	G	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	G	0	0	0	36,800	0	DISTANCE SURVEYED: A FEW CARCASSES IN STREAM		
	Mouth	G	0	0	0	500	0			
	Bay	G	0	0	0	5,000	0			

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997		Stream	G	0	0	0	36,000	0	DISTANCE SURVEYED: PLUS 1500 PINK CARCASSES
	Rod Campbell	Mouth	G	0	0	0	1,000	0		
		Bay	G	0	0	0	5,000	0		
Rough Beach, 281-9002	07/07/1997		Stream	G	0	0	0	0	0	DIST SURVEYED: NO FISH OBSERVED
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay								
	07/21/1997		Stream							DISTANCE SURVEYED: PARTIAL SURVEY MOUTH AND BAY ONLY; LOW WATER, STREAM MOUTH BLOCKED BY A SAND BAR, 500 PINKS ALONG BEACH INCLUDES IN BAY COUNT.
	Rod Campbell	Mouth	F	0	0	0	200	0		
		Bay	F	0	0	0	500	0		
	07/24/1997		Stream							DISTANCE SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY THE STREAM MOUTH IS COMPLETELY BLOCKED BY A SAND BAR - ALL PINKS ALONG BEACH
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	2,500	0		
	07/27/1997		Stream							DISTANCE SURVEYED: PARTIAL SURVEY OF BEACH - STREAM MOUTH STILL BLOCKED - VERY LOW WATER 5000 PINKS ALONG BEACH INCLUDED IN BAY
	Rod Campbell	Mouth								
		Bay	G				5,000			
	08/01/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: STREAM STILL BLOCKED BY SAND BAR. 6000 PINKS ALONG BEACH COUNTED IN BAY
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	6,000	0		
	08/08/1997		Stream	G	0	0	0	500	0	DISTANCE SURVEYED: MOUTH OPEN
	Rod Campbell	Mouth	G	0	0	0	300	0		
		Bay	F	0	0	0	8,000	0		
	08/12/1997		Stream	P	0	0	0	1,000	0	DISTANCE SURVEYED: CREEK IS NOT BLOCKED OFF
	Jim Cofske	Mouth	G	0	0	0	7,000	0		
		Bay	G	0	0	0	0	0		
	08/16/1997		Stream	F	0	0	0	18,000	0	DISTANCE SURVEYED: LOWER PART OF STREAM WAS TOO DARK TO SEE. UPPER PART HAD LOST OF FISH
	Jim Cofske	Mouth	G	0	0	0	5,000	0		
		Bay	G	0	0	0	0	0		
	08/20/1997		Stream	F	0	0	0	45,000	0	DISTANCE SURVEYED: HIGH ALTITUDE SURVEY. LOOKS GOOD. COUNT MAY BE LOW
	Rod Campbell	Mouth	F	0	0	0	1,500	0		
		Bay	F	0	0	0	3,500	0		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997		Stream	G	0	0	0	35,000	0	DISTANCE SURVEYED: PLUS 5000 PINK CARCASSES
	Rod Campbell	Mouth	G	0	0	0	3,000	0		
		Bay	G	0	0	0	500	0		
W Side San Diego Bay, 281-9003	08/01/1997		Stream	G	0	0	0	300	0	DISTANCE SURVEYED: LOW WATER
	Rod Campbell	Mouth	G	0	0	0	100	0		
		Bay	G	0	0	0	500	0		
	08/08/1997		Stream	F	0	0	0	0	50	DISTANCE SURVEYED: MURKY WATER
	Rod Campbell	Mouth	F	0	0	0	500	0		
		Bay	F	0	0	0	0	0		
	08/16/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN
	Jim Cofske	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	08/20/1997		Stream	G	0	0	0	0	500	DISTANCE SURVEYED:
	Rod Campbell	Mouth								
		Bay								
	09/03/1997		Stream	G	0	0	0	300	600	DISTANCE SURVEYED: PLUS 100 CHUM CARCASSES - FISH IN BAY COUNT WERE ALONG BEACH WEST OF 9003
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	1,000	0		
San Diego Lgn & Strm, 281-9004	07/24/1997		Stream	G	0	0	0	500	0	DISTANCE SURVEYED: ALL FISH IN LOWER 1/4 OF STREAM NOTHING IN LAGOON
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	08/01/1997		Stream	G	0	0	0	100	0	DISTANCE SURVEYED: ALL PINKS IN LAGOON VERY LOW WATER
	Rod Campbell	Mouth								
		Bay								
	08/08/1997		Stream	F	0	0	0	0	0	DISTANCE SURVEYED: TURBULENT - UPPER PORTION OF STREAM STILL HAS LOW WATER - DID NOT SEE ANY FISH
	Rod Campbell	Mouth	F	0	0	0	0	0		
		Bay	F	0	0	0	0	0		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/12/1997 Jim Cofske	Stream	G	0	0	0	1,500	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	2,100	0	DISTANCE SURVEYED: 2000 IN LAGOON, 100 IN STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/20/1997 Rod Campbell	Stream	G	0	0	0	8,000	12,500	DISTANCE SURVEYED: STREAM COUNT INCLUDES 8000 CHUM + 2000 PINKS IN LAGOON		
	Mouth	G	0	0	0	2,500	0			
	Bay	G	0	0	0	0	0			
09/03/1997 Rod Campbell	Stream	G	0	0	0	6,000	10,000	DISTANCE SURVEYED: 3000 PINKS AND 3000 CHUM WERE IN THE LAGOON PLUS 500 CHUM CARCASSES		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
Apollo Creek Minor, 282-1002 08/12/1997 Jim Cofske	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: POOR CONDITIONS, TOO DARK TO SEE. NO FISH SEEN		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	F	0	0	0	8,000	0	DISTANCE SURVEYED: UPPER STREAM HAD DARK CONDITIONS. TOO MUCH SURF IN THE BAY		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	F	0	0	0	20,000	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS IN UPPER HALF OF STREAM. GOOD ESCAPEMENT		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	15,300	0	DISTANCE SURVEYED: HIGH ALTITUDE - TURBULENT SURVEY PLUS 5000 PINK CARCASSES		
	Mouth	F	0	0	0	200	0			
	Bay	F	0	0	0	0	0			
Apollo Creek Major, 282-1003 08/12/1997 Jim Cofske	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	800	0	DISTANCE SURVEYED: GOOD CONDITIONS AT MOUTH AND STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	G	0	0	0	26,500	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	15,000	0	DISTANCE SURVEYED: HIGH ALTITUDE - TURBULENT SURVEY - COUNT PROBABLY LOW - PLUS 3000 PINK CARCASSES.		
	Mouth	F	0	0	0	200	0			
	Bay	F	0	0	0	300	0			
Acheredin Lake, 282-1004 08/12/1997 Jim Cofske	Stream	E	0	7,500	0	0	0	DISTANCE SURVEYED: STREAM A. ABOVE LAKE: 0 IN STREAM, 1000 REDS AT MOUTH OF STREAM. STREAM B. ABOVE LAKE: 500 IN STREAM, 6000 REDS AT MOUTH OF STREAM. STREAM C. ABOVE LAKE: 0 IN STREAM, 0 IN LAKE AT MOUTH. PINKS LOCATED AT MOUTH OF LAGOON.		
	Mouth	P	0	0	0	400	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED: LAGOON OPENING ONLY		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	G	0	12,000	0	3,000	0	DISTANCE SURVEYED: ALL REDS COLORED AND IN LAKE - A-200 PINKS, B-400 P, C-0, BALANCE OF PINKS IN LAKE. SPECIES ID IN BAY DIFFICULT		
	Mouth	G	0	0	0	0	0			
	Bay	E	0	0	500	3,000	0			
09/10/1997 Rod Campbell	Stream	F	0	4,500	0	7,000	0	DISTANCE SURVEYED: HIGH ALTITUDE & TURBULENT SURVEY 200 PINKS IN STREAM AND BALANCE IN LAKE. SOME CARCASSES - ALL REDS SEEN IN LAKE.		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
Unnamed 1010, 282-1010 08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/22/1997	Rod Campbell	Stream	F	0	0	0	600	0	DISTANCE SURVEYED: LOW LIGHT - ALL FISH IN LAGOON
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
Apollo Gold Mine, 282-1011	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/22/1997	Rod Campbell	Stream	F	0	0	0	16,000	0	DISTANCE SURVEYED: UPPER PART OF STREAM OVER GROWN WITH VEGETATION PLUS 500 PINK CARCASSES
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	1,500	0	
Unga Cape Stream, 282-1012	08/12/1997	Jim Cofske	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	100	0	
			Bay	G	0	0	0	0	0	
	08/16/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS AT MOUTH AND STREAM
			Mouth	G	0	0	0	200	0	
			Bay	P	0	0	0	0	0	
	08/22/1997	Rod Campbell	Stream	G	0	0	0	600	0	DISTANCE SURVEYED: PINKS LISTED IN BAY COUNT WERE IN THE LAGOON.
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	1,500	0	
Johnny Nelson Lake, 282-1013	08/07/1997	Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: MOUTH APPEARS TO BE BLOCKED. NO FISH SEEN. BAY CHOPPY
			Mouth	F	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/14/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS	
	Mouth	G	0	0	0	100	0	0		
	Bay	G	0	0	0	0	0	0		
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
08/22/1997 Rod Campbell	Stream	P	0	0	0	300	0	0	DISTANCE SURVEYED: LAKE MURKY - MOUTH OPEN	
	Mouth	P	0	0	0	0	0	0		
	Bay	P	0	0	0	0	0	0		
09/12/1997 Rod Campbell	Stream	F	0	50	0	600	0	0	DISTANCE SURVEYED: TURBULENT, HIGH ALTITUDE SURVEY	
	Mouth	F	0	0	100	0	0	0		
	Bay	F	0	0	0	0	0	0		
Squaw Hbr. Minor, 282-1014										
08/07/1997 Rod Campbell	Stream	F	0	0	0	0	0	0	DISTANCE SURVEYED: BAY CHOPPY	
	Mouth	F	0	0	0	0	0	0		
	Bay	P	0	0	0	0	0	0		
08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS	
	Mouth	G	0	0	0	1,000	0	0		
	Bay	G	0	0	0	0	0	0		
08/14/1997 Jim Cofske	Stream	G	0	0	0	50	0	0	DISTANCE SURVEYED: GOOD CONDITIONS	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
08/16/1997 Jim Cofske	Stream	G	0	0	0	200	0	0	DISTANCE SURVEYED: GOOD CONDITIONS	
	Mouth	G	0	0	0	0	0	0		
	Bay	G	0	0	0	0	0	0		
08/22/1997 Rod Campbell	Stream	P	0	0	0	1,500	0	0	DISTANCE SURVEYED: STREAM COUNTS PROBABLY LOW - OVERGROWN WITH VEGETATION	
	Mouth	G	0	0	0	2,000	0	0		
	Bay	G	0	0	0	500	0	0		
09/12/1997 Rod Campbell	Stream	F	0	0	0	5,000	0	0	DISTANCE SURVEYED: TURBULENT, HIGH ALTITUDE SURVEY - UPPER 2/3 OF STREAM OVER GROWN WITH VEGETATION: COUNT MAY BE LOW	
	Mouth	F	0	0	0	150	0	0		
	Bay	F	0	0	0	0	0	0		

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Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks	
					Chinook	Sockeye	Coho	Pink		Chum
Squaw Hbr. Major, 282-1015										
	08/07/1997		Stream	F	0	0	0	8,500	0	DISTANCE SURVEYED: BAY CHOPPY
		Rod Campbell	Mouth	F	0	0	0	0	0	
			Bay	P	0	0	0	300	0	
	08/12/1997		Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
		Jim Cofske	Mouth	G	0	0	0	4,000	0	
			Bay	G	0	0	0	0	0	
	08/14/1997		Stream	G	0	0	0	17,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
		Jim Cofske	Mouth	G	0	0	0	3,500	0	
			Bay	G	0	0	0	0	0	
	08/16/1997		Stream	G	0	0	0	15,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
		Jim Cofske	Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/22/1997		Stream	G	0	0	0	40,000	0	DISTANCE SURVEYED: GOOD ESCAPEMENT
		Rod Campbell	Mouth	G	0	0	0	1,000	0	
			Bay	G	0	0	0	8,000	0	
	09/12/1997		Stream	F	0	0	0	45,000	0	DISTANCE SURVEYED: TURBULENT, HIGH ALTITUDE SURVEY: COUNT MAY BE LOW. PLUS 2000 PINK CARCASSES
		Rod Campbell	Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
Ben Green Bight-farm, 282-1016										
	07/07/1997		Stream	G	0	0	0	0	0	DIST SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	150	0	
			Bay							
	07/21/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	100	0	
			Bay	F	0	0	0	0	0	
	07/24/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
		Rod Campbell	Mouth	G	0	0	0	1,500	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
07/27/1997 Rod Campbell	Stream	G	0	0	0	250	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
07/29/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: 2 SKIFFS ON BEACH - DID NOT SEE ANY GILLNETS IN BOATS OR WATER		
	Mouth	G	0	0	0	150	0			
	Bay	G	0	0	0	0	0			
08/07/1997 Rod Campbell	Stream	F	0	0	0	100	0	DISTANCE SURVEYED: ALL PINKS IN STREAM JUST ABOVE MOUTH, 1000 PINKS IN BAY COUNT, WERE ALL ALONG THE BEACH. BAY CHOPPY		
	Mouth	F	0	0	0	50	0			
	Bay	F	0	0	0	1,000	0			
08/12/1997 Jim Cofske	Stream	E	0	0	0	200	0	DISTANCE SURVEYED: EXCELLENT CONDITIONS IN STREAM AND MOUTH		
	Mouth	E	0	0	0	2,000	0			
	Bay	G	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	1,000	0			
	Bay	G	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	G	0	0	0	8,000	0	DISTANCE SURVEYED:		
	Mouth	E	0	0	0	100	0			
	Bay	E	0	0	0	5,000	0			
08/22/1997 Rod Campbell	Stream	F	0	0	0	8,000	0	DISTANCE SURVEYED: UPPER 1/2 OF STREAM OVER GROWN WITH VEGETATION.		
	Mouth	G	0	0	0	2,500	0			
	Bay	G	0	0	0	500	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	6,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN STREAM, UPPER 1/2 OF STREAM OVER GROWN WITH VEGETATION - COUNT PROBABLY LOW PLUS 2000 SALMON CARCASSES - MAY HAVE BEEN SOME CHUMS - DIFFICULT TO ID SPECIES.		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
Ne Unga Is., 282-1017 07/11/1997 Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS, NO FISH SEEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Humboldt Creek-popof, 282-1018	08/19/1997	Rod Campbell	Stream	G	0	0	0	150	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	50	0	
			Bay							
	08/26/1997	Jim Cofske	Stream	G	0	2	0	179	0	DISTANCE SURVEYED: GOOD CONDITIONS IN STREAM TWO SOCKEYE SEEN IN POOL BELOW CULVERT.
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
Red Cove-popof, 282-1020	08/07/1997	Rod Campbell	Stream	F	0	0	0	0	0	DISTANCE SURVEYED: MOUTH APPEARS TO BE BLOCKED, BAY CHOPPY, NO FISH SEEN
			Mouth	F	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITION, NO FISH SEEN, THE STREAM IS FLOWING INTO THE BAY NOT VERY DEEP THOUGH
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/19/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: MOUTH STILL OPEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	09/03/1997	Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & LAKE CHOPPY
			Mouth	F	0	0	300	0	0	
			Bay		0	0	0	0	0	
	09/10/1997	Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - MOUTH & OUTSIDE BEACH. VERY TURBULENT.
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	200	0	0	
Salmon Ranch-popof, 282-1101	08/12/1997	Jim Cofske	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	1,000	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/19/1997 Rod Campbell	Stream	F	0	0	0	500	0	DISTANCE SURVEYED: STREAM OVERGROWN WITH VEGETATION DIFFICULT TO SEE FISH		
	Mouth	E	0	0	0	1,000	0			
	Bay	E	0	0	0	5,000	0			
08/24/1997 Rod Campbell	Stream	F	0	0	0	2,500	0	DISTANCE SURVEYED: STREAM OVERGROWN WITH VEGETATION.		
	Mouth	G	0	0	0	300	0			
	Bay	G	0	0	0	1,500	0			
09/03/1997 Rod Campbell	Stream	F	0	0	0	2,500	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS & UPPER SECTION OF STREAM OVERGROWN WITH VEGETATION COUNT PROBABLY LOW - PLUS 450 PINK CARCASSES		
	Mouth	F	0	0	0	1,000	0			
	Bay	F	0	0	0	2,000	0			
Fox Hole-popof, 282-1103 08/12/1997 Jim Cofske	Stream	G	0	0	0	1,000	0	DISTANCE SURVEYED: LOST OF OVER GROWTH ABOVE THE STREAM. GOOD CONDITIONS		
	Mouth	G	0	0	0	2,000	0			
	Bay	G	0	0	0	4,000	0			
08/19/1997 Rod Campbell	Stream	G	0	0	0	4,500	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	100	0			
	Bay	G	0	0	0	2,500	0			
09/03/1997 Rod Campbell	Stream	F	0	0	0	6,500	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS PLUS 500 PINK CARCASSES		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	1,500	0			
09/12/1997 Rod Campbell	Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED: FRESH FISH AT MOUTH PLUS 1000 PINK CARCASSES.		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	0	0			
W Side Korovin Bay, 282-1105 08/12/1997 Jim Cofske	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	G	0	0	0	500	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	200	0			
	Bay	G	0	0	0	2,000	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
09/03/1997 Rod Campbell	Stream	F	0	0	0	1,500	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS PLUS 500 PINK CARCASSES		
	Mouth	F	0	0	0	100	0			
	Bay	F	0	0	0	150	0			
09/12/1997 Rod Campbell	Stream	F	0	0	0	2,000	0	DISTANCE SURVEYED: PLUS 500 PINK CARCASSES DARK STREAM BED - COUNT MAYBE LOW.		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
Korovin Lake, 282-1106 08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOG JAM AT MOUTH		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/19/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH BLOCKED		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
09/03/1997 Rod Campbell	Stream	F	0	800	0	0	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS ALL REDS IN LAKE MADE IT THROUGH THE LOG JAM		
	Mouth	F	0	0	50	250	0			
	Bay	F	0	0	0	0	0			
09/12/1997 Rod Campbell	Stream	G	0	2,800	0	250	0	DISTANCE SURVEYED: 2500 OF REDS WERE IN THE LAKE PLUS 250 CARCASSES		
	Mouth	G	0	0	150	50	0			
	Bay	G	0	0	0	0	0			
Coal Harbor West, 282-1201 07/07/1997 Rod Campbell	Stream							DIST SURVEY: PARTIAL SURVEY BAY & MOUTH ONLY, LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
07/11/1997 Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
07/29/1997 Rod Campbell	Stream							DISTANCE SURVEYED: PINKS ALONG BEACH AND OFF MOUTHS OF STREAM 1201 THROUGH 1210 BAY ONLY		
	Mouth									
	Bay	G	0	0	0	10,000	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS; NO FISH SEEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Zachary Bay 1202, 282-1202	07/07/1997	Rod Campbell	Stream							DIST SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	50	
			Bay	G	0	0	0	0	0	
	07/11/1997	Matt Ford	Stream							PARTIAL SURVEY BAY AND MOUTH ONLY
			Mouth	G	0	0	0	0	100	
			Bay	G	0	0	0	0	0	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: 20 CARCASSES AT MOUTH, NO LIVE FISH SPOTTED
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Zachary Bay 1203, 282-1203	07/07/1997	Rod Campbell	Stream							DIST SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	50	
			Bay	G	0	0	0	0	0	
	07/11/1997	Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	500	
			Bay	G	0	0	0	0	0	
	07/22/1997	Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY; 1203,1204,1205,1206,1207,1208 5,000 PINKS IN THE BAY OFF OF THE MOUTHS OF THESE CREEKS.
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	07/24/1997	Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY - BAY ONLY, SALMON OFF MOUTHS OF 1203,.04, .05,.06, .07, .08, .09
			Mouth							
			Bay	G	0	0	0	6,000	0	
	08/07/1997	Rod Campbell	Stream							DISTANCE SURVEYED: PARTIAL SURVEY BAY ONLY - PINKS ALONG BEACH BETWEEN 1203 & 1210. BAY CHOPPY
			Mouth							
			Bay	P	0	0	0	3,000	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/12/1997		Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS
	Jim Cofske	Mouth	G	0	0	0	150	0		
		Bay	G	0	0	0	0	0		
Zachary Bay 1204, 282-1204	07/07/1997		Stream							DIST SURVEY: PARTIAL SURVEY BAY & MOUTH ONLY, NO FISH OBSERVED
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	07/11/1997		Stream							PARTIAL SURVEY BAY AND MOUTH ONLY, 1204 - 05-06-07, 1000 CHUMS IN THE BAY OFF THE MOUTHS OF THESE CREEKS.
	Matt Ford	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	08/12/1997		Stream	G	0	0	0	3,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
	Jim Cofske	Mouth	G	0	0	0	3,000	0		
		Bay	G	0	0	0	0	0		
Zachary Bay 1205, 282-1205	07/07/1997		Stream							DIST SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY, NO FISH OBSERVED
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	07/11/1997		Stream							PARTIAL SURVEYED BAY AND MOUTH ONLY
	Matt Ford	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	08/12/1997		Stream	G	0	0	0	10,000	0	DISTANCE SURVEYED: GOOD CONDITIONS
	Jim Cofske	Mouth	G	0	0	0	3,000	0		
		Bay	G	0	0	0	0	0		
Zachary Bay 1206, 282-1206	07/07/1997		Stream							DIST SURVEY: PARTIAL SURVEY BAY & MOUTH ONLY NO FISH OBSERVED
	Rod Campbell	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		
	07/11/1997		Stream							PARTIAL SURVEY BAY & MOUTH ONLY
	Matt Ford	Mouth	G	0	0	0	0	0		
		Bay	G	0	0	0	0	0		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	1,000	0	DISTANCE SURVEYED: LOTS OF OVER GROWTH OVER THE STREAM
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Zachary Bay 1207, 282-1207	07/07/1997	Rod Campbell	Stream							DIST SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	50	
			Bay	G	0	0	0	0	0	
	07/11/1997	Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	4,000	0	
			Bay	G	0	0	0	0	0	
2nd Str S. Of Qtz Pt. 282-1208	07/07/1997	Rod Campbell	Stream							DIST SURVEYED; PARTIAL SURVEY BAY & MOUTH ONLY, PLUS 300 CHUM ALONG BEACH BETWEEN 12.08 & 12.07
			Mouth	G	0	0	0	0	100	
			Bay	G	0	0	0	0	0	
	07/11/1997	Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
	08/12/1997	Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS
			Mouth	G	0	0	0	500	0	
			Bay	G	0	0	0	0	0	
1st Str S. Of Qtz Pt. 282-1209	07/07/1997	Rod Campbell	Stream							DIST SURVEYED; PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	300	
			Bay	G	0	0	0	0	0	
	07/11/1997	Matt Ford	Stream							PARTIAL SURVEY BAY & MOUTH ONLY
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/12/1997 Jim Cofske	Stream	G	0	0	0	300	0	DISTANCE SURVEYED: STREAM COVERED WITH OVER GROWTH		
	Mouth	G	0	0	0	200	0			
	Bay	G	0	0	0	0	0			
Zachary Bay 1210, 282-1210 07/07/1997 Rod Campbell	Stream							DIST SURVEYED: PARTIAL SURVEY BAY & MOUTH ONLY NO FISH OBSERVED		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	20	0			
Dry Lagoon, 282-1302 07/07/1997 Rod Campbell	Stream	G	0	0	0	0	0	DIST SURVEYED: NO FISH OBSERVED, LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay									
07/11/1997 Matt Ford	Stream	G	0	0	0	0	0	LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
07/21/1997 Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: LOW WATER NO FISH		
	Mouth	G	0	0	0	0	0			
	Bay	F	0	0	0	0	0			
07/22/1997 Matt Ford	Stream	G	0	0	0	100	0	HIGH WATER - NO FISH ALL PINKS WERE IN THE LAGOON		
	Mouth	G	0	0	0	0	0			
	Bay									
08/07/1997 Rod Campbell	Stream	P	0	0	0	4,500	0	DISTANCE SURVEYED: LOW LIGHT, DARK STREAM BED, LOW WATER BAY CHOPPY		
	Mouth	F	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/12/1997 Jim Cofske	Stream	G	0	0	0	2,500	0	DISTANCE SURVEYED: GOOD CONDITIONS MOST FISH SEEN IN UPPER STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	5,700	0	DISTANCE SURVEYED: MOST FISH IN UPPER STREAM, GOOD CONDITIONS IN MOUTH AND STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	G	0	0	0	38,000	1,500	DISTANCE SURVEYED: LOOKS GOOD, A FEW CARCASSAS		
	Mouth	G	0	0	0	200	0			
	Bay	G	0	0	0	500	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	35,000	0	DISTANCE SURVEYED: LOW LIGHT (CLOUDS) AND DARK STREAM BED MAY HAVE BEEN SOME CHUM MIXED WITH PINKS. DIFFICULT TO ID SPECIES PLUS 200 PINK CARCASSES.		
	Mouth	F	0	0	0	100	0			
	Bay	F	0	0	0	0	0			
233 Bay Point, 282-1303 07/07/1997 Rod Campbell	Stream	G	0	0	0	0	0	DIST SURVEYED: NO FISH OBSERVED LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay									
07/11/1997 Matt Ford	Stream	G	0	0	0	0	100	LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
07/21/1997 Rod Campbell	Stream	G	0	0	0	0	50	DISTANCE SURVEYED: LOW WATER - 500 CHUM ALONG BEACH INCLUDED IN BAY COUNT		
	Mouth	G	0	0	0	0	0			
	Bay	F	0	0	0	0	500			
07/22/1997 Matt Ford	Stream	G	0	0	0	100	0	PARTIAL SURVEY, LAGOON AND LOWER STREAM		
	Mouth	G	0	0	0	2,900	0			
	Bay									
07/24/1997 Rod Campbell	Stream	G	0	0	0	500	0	DISTANCE SURVEYED: PLUS 1500 PINKS ALONG OUTSIDE BEACH		
	Mouth	G	0	0	0	3,000	0			
	Bay	G	0	0	0	0	0			
07/27/1997 Rod Campbell	Stream	G	0	0	0	200	0	DISTANCE SURVEYED: LOW WATER PLUS 500 PINKS ALONG BEACH AND 3000 PINKS IN LAGOON		
	Mouth	G	0	0	0	500	0			
	Bay									

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
07/29/1997 Rod Campbell	Stream	G	0	0	0	11,200	0	DISTANCE SURVEYED: FISH HAVE MOVED UP INTO STREAM STILL 3,000 REMAIN IN LAGOON		
	Mouth	G	0	0	0	300	0			
	Bay	G	0	0	0	200	0			
08/07/1997 Rod Campbell	Stream	F	0	0	0	22,500	0	DISTANCE SURVEYED: JUMPERS ALONG OUTSIDE BEACH PLUS 3000 PINKS IN BAY COUNT. 5000 PINKS IN STREAM COUNT WERE IN THE LAGOON. BAY CHOPPY		
	Mouth	F	0	0	0	2,500	0			
	Bay	P	0	0	0	3,000	0			
08/12/1997 Jim Cofske	Stream	G	0	0	0	7,000	3,000	DISTANCE SURVEYED: CHUMS SEEN IN THE LAGOON		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	10,000	0	DISTANCE SURVEYED: 4000 PINKS IN LAGOON, GOOD CONDITIONS IN MOUTH AND STREAM		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	F	0	0	0	50,000	5,000	DISTANCE SURVEYED: LOW LIGHT CONDITIONS AND DARK STREAM BED - STREAM COUNT INCLUDES 3500 PINKS IN LAGOON A FEW CARCASSES		
	Mouth	G	0	0	0	500	0			
	Bay	G	0	0	0	2,500	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	27,000	0	DISTANCE SURVEYED: LOW LIGHT (CLOUDS) AND DARK STREAM BED. SPECIES ID DIFFICULT - MAY HAVE BEEN SOME CHUM MIXED WITH PINKS. PLUS 10,000 (PLUS) SALMON CARCASSES.		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	0	0			
Pinnacle Point Strm., 282-1304 07/07/1997 Rod Campbell	Stream	G	0	0	0	0	0	DIST SURVEYED: NO FISH OBSERVED LOW WATER		
	Mouth	G	0	0	0	0	0			
	Bay									
08/07/1997 Rod Campbell	Stream	P	0	0	0	25	0	DISTANCE SURVEYED: LOW LIGHT, DARK STREAM, BED, LOW WATER BAY CHOPPY		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/12/1997 Jim Cofske	Stream	G	0	0	0	1,500	0	DISTANCE SURVEYED: GOOD CONDITIONS IN STREAM, FISH SEEN IN LOWER PORTION OF STREAM		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/16/1997 Jim Cofske	Stream	G	0	0	0	3,000	0	DISTANCE SURVEYED: FISH WERE CLOSE TO THE MOUTH		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	G	0	0	0	2,500	0	DISTANCE SURVEYED: LARGE ESCAPEMENT		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
09/10/1997 Rod Campbell	Stream	F	0	0	0	20,000	0	DISTANCE SURVEYED: LOW LIGHT (CLOUDS) AND DARK STREAM BED PLUS 5000 PINK CARCASSES.		
	Mouth	F	0	0	0	500	0			
	Bay	F	0	0	0	0	0			
2nd Str S Of Pinn Pt, 282-1305 08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: POOR CONDITIONS AT MOUTH AND BAY DUE TO TOO MUCH SURF		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: GOOD CONDITIONS IN MOUTH AND STREAM. NO FISH SEEN		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/22/1997 Rod Campbell	Stream	P	0	0	0	500	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS - STREAM OVER GROWN WITH VEGETATION		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
09/10/1997 Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: LOW LIGHT, DARK STREAM BED - OVER GROWN WITH VEGETATION. HIGH SURF AT STREAM MOUTH.		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
3rd Str S Of Pinn Pt, 282-1306 08/12/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: POOR CONDITIONS AT MOUTH, DUE TO TOO MUCH SURF		
	Mouth	P	0	0	0	0	0			
	Bay	P	0	0	0	0	0			
08/16/1997 Jim Cofske	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: TOO MUCH SURF IN BAY		
	Mouth	G	0	0	0	0	0			
	Bay	P	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/22/1997	Rod Campbell	Stream	P	0	0	0	0	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS - STREAM OVERGROWN WITH VEGETATION
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	09/10/1997	Rod Campbell	Stream	F	0	0	0	150	0	DISTANCE SURVEYED: LOW LIGHT CONDITIONS AND DARK STREAM BED.
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
, 282-2001	09/12/1997	Rod Campbell	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH BLOCKED - NO FISH OR CARCASSES SEEN
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
, 282-2002	09/12/1997	Rod Campbell	Stream	G	0	0	50	100	0	DISTANCE SURVEYED: JUMPERS IN BAY - ALL FISH SEEN WERE IN THE LAGOON
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	0	0	
Lagoon Lk. Sanborn H, 282-2003	09/12/1997	Rod Campbell	Stream	E	0	0	0	3,000	1,000	DISTANCE SURVEYED: PLUS 500 SALMON CARCASSES
			Mouth	E	0	0	0	0	0	
			Bay	E	0	0	0	100	0	
Head Of Sanborn Hbr, 282-2004	09/12/1997	Rod Campbell	Stream	E	0	0	0	20,000	0	DISTANCE SURVEYED: STREAM IS PLUGGED; PLUS 5000 PINK CARCASSES
			Mouth	E	0	0	0	150	0	
			Bay	E	0	0	0	500	0	
Head Falmouth Hbr, 282-2005	09/12/1997	Rod Campbell	Stream	E	0	0	0	10,000	300	DISTANCE SURVEYED: PLUS 1000 SALMON CARCASSES, 250 PINKS IN BAY COUNT WERE NEAR MOUTH OF UNNAMED STREAM WEST OF 282-2005
			Mouth	E	0	0	0	0	0	
			Bay	E	0	0	0	250	0	
, 282-2006	09/12/1997	Rod Campbell	Stream	E	0	0	0	1,500	0	DISTANCE SURVEYED: PLUS 1000 PINK CARCASSES
			Mouth	E	0	0	0	100	0	
			Bay	E	0	0	0	0	0	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
. 282-2008	09/12/1997	Rod Campbell	Stream	E	0	0	0	0	0	DISTANCE SURVEYED: STREAM MOUTH BLOCKED - NO FISH OR CARCASSES SEEN
			Mouth	E	0	0	0	0	0	
			Bay	E	0	0	0	0	0	
Now Numb: 283-2006, 283-2006	07/08/1997	Arnie Shaul	Stream			300				DISTANCE SURVEYED: GOOD VISIBILITY IN UPPER LAGOON, FAIR IN LOWER. THREE HOURS PAST LOW WATER.
			Mouth							
	08/26/1997	Arnie Shaul	Stream	F	0	8,300				DISTANCE SURVEYED: REDS COLORED UP. 1-200 CARCASSES ON FLATS. ABOUT 1550 COUNTED THROUGH WEIR BEFORE IT WAS PULLED ON AUG 24.
			Mouth							
Now Numb: 283-3102, 283-3102	08/26/1997	Arnie Shaul	Stream	G	0	0	0	9,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	4,000	0	
			Bay							
Now Numb: 283-3403, 283-3403	10/08/1997	Dan Connolly	Stream	G		2	878		11	DISTANCE SURVEYED: REDS, PINKS, AND 250 COHO WERE BELOW BRIDGE. SURVEYED LOWER TWO MILES, PROBABLY MORE REDS AND PINKS ABOVE.
			Mouth							
			Bay							
Sw. Strm, Long J.lgn, 283-6102	08/19/1997	Arnie Shaul	Stream	G	0	0	0	300	1,400	DISTANCE SURVEYED: AN ADDITIONAL 4500 CH'S IN LAGOON.
			Mouth	E	0	0	0	0	1,000	
			Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	5,500	3,700	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	2,500	
			Bay							
Long John Lgn, 2 S., 283-6103	09/03/1997	Arnie Shaul	Stream	G	0	0	0	300	300	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	300	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Spring Fed Lakes, 283-6104										
	08/01/1997	Arnie Shaul	Stream	E	0	400	0	0	0	DISTANCE SURVEYED: CHUMS AT MOUTH AND A ADDITIONAL 500 CH'S IN LUX END OF LAGOON WILL PROBABLY GOO INTO 6102
			Mouth Bay	G	0	200	0	0	300	
	08/19/1997	Arnie Shaul	Stream	G	0	700	0	400	0	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	0	0	
	09/03/1997	Arnie Shaul	Stream	E	0	300	0	1,500	300	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	0	0	
Long John Lagoon, 283-6105										
	09/03/1997	Arnie Shaul	Stream	G	0	0	600	0	0	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	200	0	0	
Cape Tolstoi, 283-6201										
	08/28/1997	Jim Cofske	Stream	F	0	0	0	5,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN STREAM. LOW OVERCAST 4000 CARCASSES SEEN
			Mouth Bay	G	0	0	0	3,000	0	
Coal Bay 6202, 283-6202										
	08/28/1997	Jim Cofske	Stream	F	0	0	0	11,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN STREAM. LOW OVERCAST AND HARD TO DISTINGUISH BETWEEN ROCKS. 500 CARCASSES SEEN.
			Mouth Bay	G	0	0	0	0	0	
Coal Bay 6203, 283-6203										
	08/28/1997	Jim Cofske	Stream	F	0	0	0	14,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN STREAM. LOW OVERCAST AND HARD TO DISTINGUISH BETWEEN ROCKS. 1500 CARCASSES SEEN.
			Mouth Bay	G	0	0	0	0	0	
Coal Bay Unnamed, 283-6204										
	08/07/1997	Arnie Shaul	Stream	G	0	0	0	13,000	0	DISTANCE SURVEYED:
			Mouth Bay	P P						

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/28/1997	Jim Cofske	Stream	F	0	0	0	49,000	0	DISTANCE SURVEYED: FAIR CONDITIONS IN THE STREAM. LOW OVERCAST AND HARD TO DISTINGUISH BETWEEN ROCKS. 1,000 CARCASSES SEEN
			Mouth	G	0	0	0	0	0	
			Bay							
Coal Bay Main Stream, 283-6205	07/24/1997	Arnie Shaul	Stream	E	0	0	0	200	0	DISTANCE SURVEYED: TURBULENT AT MOUTH
			Mouth							
			Bay							
	07/29/1997	Rod Campbell	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED: LOTS OF JUMPERS IN BAY AND ALONG THE BEACH
			Mouth	G	0	0	0	200	0	
			Bay	G	0	0	0	15,000	0	
	08/01/1997	Arnie Shaul	Stream	E	0	0	0	2,200		DISTANCE SURVEYED: NEEDS RAIN
			Mouth	G	0	0	0	5,000		
			Bay							
	08/07/1997	Arnie Shaul	Stream	G	0	0	0	67,000	0	DISTANCE SURVEYED: GOOD WATER FLOW
			Mouth	G	0	0	0	20,000	0	
			Bay	P						
	08/28/1997	Jim Cofske	Stream	G	0	0	0	74,000	0	DISTANCE SURVEYED: GOOD CONDITIONS, 10000 CARCASSES SEEN.
			Mouth	G	0	0	0	3,000	0	
			Bay					0	0	
Strm S Of Chinaman L, 283-6304	08/19/1997	Arnie Shaul	Stream	F	0	0	0	100	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	3,000	
			Bay							
	08/26/1997	Arnie Shaul	Stream	P	0	0	0	0	300	DISTANCE SURVEYED: LOWER PART OF CREEK TOO MUDDY, POOR LIGHT IN UPPER.
			Mouth	G	0	0	0	0	2,000	
			Bay							
Lower Chinaman Lgn, 283-6305	08/19/1997	Arnie Shaul	Stream	G	0	0	0	0	300	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	6,000	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/26/1997	Arnie Shaul	Stream	F	0	0	0	0	800	DISTANCE SURVEYED: POOR LIGHT IN CREEK.
			Mouth	G	0	0	0	0	5,000	
			Bay							
Chinaman Lgn Main, 283-6310	08/19/1997	Arnie Shaul	Stream							DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	10,000	
			Bay							
	08/26/1997	Arnie Shaul	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	7,000	
			Bay							
Chinaman Lgn North, 283-6311	08/26/1997	Arnie Shaul	Stream							DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	700	
			Bay							
Ruby's Lagoon, 283-6313	08/19/1997	Arnie Shaul	Stream	G	0	0	0	0	7,000	DISTANCE SURVEYED: ALL WERE IN LAGOON.
			Mouth							
			Bay							
	08/26/1997	Arnie Shaul	Stream	G	0	150	0	0	10,800	DISTANCE SURVEYED: 9000 OF THE CHUMS WERE IN LGN REDS WERE SCHOOLED IN LAKE.
			Mouth	G	0	0	0	0	0	
			Bay							
Middle Creek, 283-6315	07/14/1997	Arnie Shaul	Stream	E				200		DISTANCE SURVEYED: ; WATER CRITICALLY LOW
			Mouth	G				100		
			Bay							
	07/20/1997	Arnie Shaul	Stream	G	0	0	0	1,100	0	DISTANCE SURVEYED: NOTHING ABOVE FORKS.
			Mouth	F	0	0	0	0	0	
			Bay							
	07/24/1997	Arnie Shaul	Stream	E	0	0	0	2,700	0	DISTANCE SURVEYED:
			Mouth	P						
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
07/29/1997 Rod Campbell	Stream	P	0	0	0	5,700	0	DISTANCE SURVEYED: LOW LIGHT DIFFICULT TO SEE FISH AGAINST DARK STREAM BED		
	Mouth	P	0	0	0	0	0			
	Bay									
08/01/1997 Arnie Shaul	Stream	G	0	0	0	17,000	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	4,000	0			
	Bay									
08/07/1997 Arnie Shaul	Stream	G	0	0	0	100,000	0	DISTANCE SURVEYED: GOOD WATER FLOW		
	Mouth	F	0	0	0	5,000	0			
	Bay									
08/28/1997 Jim Cofske	Stream	G	0	0	0	99,000	0	DISTANCE SURVEYED: GOOD CONDITIONS, UPPER PART OF STREAM A LITTLE DARK FOR COUNTING, LOWER PART OF RIVER FULL OF FISH. 8,000 CARCASSES MOSTLY IN UPPER PORTION OF STREAM		
	Mouth	G	0	0	0	3,000	0			
	Bay									
Settlement Point, 283-6316 07/14/1997 Arnie Shaul	Stream	E	0	0	0	500	0	DISTANCE SURVEYED: ; WATER CRITICALLY LOW		
	Mouth	G	0	0	0	500	0			
	Bay									
07/20/1997 Arnie Shaul	Stream	E	0	0	0	2,500	0	DISTANCE SURVEYED: 1,000 WERE ABOVE FORKS.		
	Mouth	P	0	0	0	0	0			
	Bay									
07/24/1997 Arnie Shaul	Stream	E	0	0	0	4,300	0	DISTANCE SURVEYED: IN BAD NEED OF RAIN		
	Mouth	P								
	Bay									
07/29/1997 Rod Campbell	Stream	G	0	0	0	40,000	0	DISTANCE SURVEYED:		
	Mouth	G	0	0	0	5,000	0			
	Bay	G	0	0	0	15,000	0			
08/01/1997 Arnie Shaul	Stream	E	0	0	0	70,000	0	DISTANCE SURVEYED: DIDN'T FLY RIGHT FORK. PROB ANOTHER 5000 OR SO NEEDS RAIN		
	Mouth	G	0	0	0	5,000	0			
	Bay									

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/07/1997	Arnie Shaul	Stream	G	0	0	0	244,000	0	DISTANCE SURVEYED:
			Mouth	F	0	0	0	5,000	0	
			Bay							
	08/28/1997	Jim Cofske	Stream	G	0	0	0	230,000	0	DISTANCE SURVEYED: GOOD CONDITIONS, 24000 CARASSES WERE SEEN
			Mouth	G	0	0	0	5,000	0	
			Bay							
Bluff Point Creek, 283-6405	08/01/1997	Arnie Shaul	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
			Mouth	E	0	0	0	0	10,000	
			Bay							
	08/07/1997	Arnie Shaul	Stream	G	0	0	0	700	1,300	DISTANCE SURVEYED:
			Mouth	P						
			Bay	P						
	08/19/1997	Rod Campbell	Stream	F	0	0	0	26,000	4,500	DISTANCE SURVEYED: LOWER 1 MILE OF STREAM, MUDDY PLUS 200 PINK CARCASSES
			Mouth	F	0	0	0	0	0	
			Bay	F	0	0	0	0	0	
Canoe Bay River, 283-6406	07/07/1997	Rod Campbell	Stream	G	0	200	0	0	3,700	DIST SURVEYED: ; NO LARGE CONCENTRATION OF FISH, SEALS IN INNER BAY - 300 CHUMS ALONG NORTH SHORE OF INNER BAY
			Mouth	G	0	0	0	0	100	
			Bay	G	0	0	0	0	0	
	07/14/1997	Arnie Shaul	Stream	E		1,000			4,000	DISTANCE SURVEYED: WATER VERY LOW. ADDITIONAL 500 CHUMS ON FLATS. POOR VIS AT DROP OFF
			Mouth	P						
			Bay	F	0	0	0	0	2,000	
	07/20/1997	Arnie Shaul	Stream	E	0	1,500	0	0	5,700	DISTANCE SURVEYED: ;
			Mouth	G	0	0	0	0	2,000	
			Bay	F	0	0	0	0	1,000	
	07/24/1997	Arnie Shaul	Stream	E	0	1,800	0	0	12,100	DISTANCE SURVEYED: INNER BAY CH'S OBSERVED ALONG BLUFF POINT FLATS.
			Mouth	P	0	0	0	0	2,000	
			Bay	P	0	0	0	0	2,000	

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/01/1997 Arnie Shaul	Stream	E	0	1,000	0	0	14,000	DISTANCE SURVEYED: 10000 OF THE 12000 CH'S SEEN IN THE INNER BAY WERE OFF BLUFF PT CR BUT MAY GO INTO 6406		
	Mouth	E	0	0	0	0	63,000			
	Bay	G	0	0	0	0	12,000			
08/19/1997 Rod Campbell	Stream	G	0	0	0	40,000	200,000	DISTANCE SURVEYED: BAY FULL OF FISH PLUS 10000 CARCASSES STREAM INCLUDES 25000 CHUMS IN FOUR BEAR CREEK.		
	Mouth	G	0	0	0	5,000	10,000			
	Bay	G	0	0	0	150,000	0			
Wolverine Gulch, 283-6407 08/19/1997 Rod Campbell	Stream	G	0	0	0	17,000	500	DISTANCE SURVEYED: ; PLUS 200 PINK CARCASSES		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
Entrance Creek, 283-6408 08/01/1997 Arnie Shaul	Stream	E	0	0	0	200	0	DISTANCE SURVEYED: DESPERATE NEED OF RAIN		
	Mouth	G	0	0	0	0	0			
	Bay									
08/07/1997 Arnie Shaul	Stream	G	0	0	0	11,000	400	DISTANCE SURVEYED: JUMPERS AT MOUTH. GOOD WATER FLOW		
	Mouth	P								
	Bay	P								
08/19/1997 Rod Campbell	Stream	G	0	0	0	125,000	0	DISTANCE SURVEYED: ; PLUS 1500 PINK CARCASSES STREAM MURKY BELOW FORKS.		
	Mouth	G	0	0	0	0	0			
	Bay	G	0	0	0	0	0			
Inner Canoe,s Side, 283-6409 08/19/1997 Rod Campbell	Stream	G	0	0	0	0	3,500	DISTANCE SURVEYED: ; PLUS 1500 CHUM CARCASSES		
	Mouth	G	0	0	0	0	1,500			
	Bay	G	0	0	0	0	0			
Ness Creek, 283-6410 08/07/1997 Arnie Shaul	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED;		
	Mouth	P								
	Bay	P								
08/19/1997 Rod Campbell	Stream	G	0	0	0	25,000	0	DISTANCE SURVEYED: PLUS 1000 PINK CARCASSES		
	Mouth	G	0	0	0	5,000	0			
	Bay	G	0	0	0	5,000	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Mino Creek, 283-7001										
	07/20/1997	Armie Shaul	Stream	E	0	0	0	7,200	500	DISTANCE SURVEYED:
			Mouth	P	0	0	0	0	0	
			Bay							
	07/24/1997	Armie Shaul	Stream	E	0	0	0	19,200	1,000	DISTANCE SURVEYED:
			Mouth	P	0	0	0	0	0	
			Bay							
	07/29/1997	Rod Campbell	Stream	G	0	0	0	90,000	0	DISTANCE SURVEYED: 85000 WERE BELOW EAST FORK
			Mouth	G	0	0	0	10,000	0	
			Bay							
	08/01/1997	Armie Shaul	Stream	E	0	0	0	95,000	0	DISTANCE SURVEYED: 81000 WERE BELOW FORK E.
			Mouth	E	0	0	0	20,000	0	
			Bay							
	08/07/1997	Armie Shaul	Stream	G	0	0	0	238,000	0	DISTANCE SURVEYED: 188,000 BELOW FORK E.
			Mouth	P						
			Bay	P						
	08/28/1997	Jim Cofske	Stream	G	0	2,500	0	263,000	0	DISTANCE SURVEYED: GOOD CONDITIONS 2000 REDS SEEN IN LAKE WEST OF MINO. 500 REDS SEEN IN LAKE EAST OF MINO. A=47000 PINKS, B=100 PINKS, C=26000 PINKS, D=7000 P: 500 CARCASSES, E=106000 P: 13000 CARCASSES, F=77000 P: 10000 CARCASSES
			Mouth	G	0	0	0	0	0	
			Bay							
E. Of Mino Creek, 283-7002										
	07/29/1997	Rod Campbell	Stream	G	0	0	0	2,800	0	DISTANCE SURVEYED: BAY AND OUTSIDE BEACH MURKY. 2000 OF PINKS IN HOLE JUST ABOVE THE STREAM MOUTH
			Mouth	G	0	0	0	150	0	
			Bay	P	0	0	0	0	0	
	08/01/1997	Armie Shaul	Stream	E	0	0	0	13,600	0	DISTANCE SURVEYED: ; NEEDS RAIN
			Mouth	G	0	0	0	2,000	0	
			Bay							
	08/07/1997	Armie Shaul	Stream	G	0	0	0	68,000	0	DISTANCE SURVEYED:
			Mouth	P						
			Bay	P						

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/13/1997	Jim Cofske	Stream	G	0	0	0	74,000	0	DISTANCE SURVEYED: TOO MUCH SURF AT MOUTH AND BAY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/28/1997	Jim Cofske	Stream	G	0	0	0	80,000	0	DISTANCE SURVEYED: GOOD CONDITIONS, 2500 CARCASSES SEEN. LOOKED LIKE LOTS OF FISH IN STREAM CLOSE TO THE MOUTH TOO CLOUDY TO ESTIMATE.
			Mouth	G	0	0	0	0	0	
			Bay							
Mcginty's Point, 283-7003	07/29/1997	Rod Campbell	Stream	G	0	0	0	900	0	DISTANCE SURVEYED: WATER LEVEL GOOD IN LOWER HALF OF STREAM - LOW IN UPPER HALF
			Mouth	G	0	0	0	150	0	
			Bay	G	0	0	0	500	0	
245	08/01/1997	Amie Shaul	Stream	B	0	0	0	1,000	0	DISTANCE SURVEYED: NEEDS RAIN
			Mouth	G	0	0	0	500	0	
			Bay							
	08/07/1997	Amie Shaul	Stream	G	0	0	0	12,500	0	DISTANCE SURVEYED:
			Mouth	P						
			Bay	P						
	08/13/1997	Jim Cofske	Stream	G	0	0	0	20,000	0	DISTANCE SURVEYED: TOO MUCH SURF AT MOUTH AND BAY
			Mouth	P	0	0	0	0	0	
			Bay	P	0	0	0	0	0	
	08/28/1997	Jim Cofske	Stream	G	0	0	0	61,100	0	DISTANCE SURVEYED: GOOD CONDITIONS, 1000 CARCASSES SEEN.
			Mouth	G	0	0	0	0	0	
			Bay							
Near Egg Island, 284-1101	08/13/1997	Amie Shaul	Stream	E				5,000	300	DISTANCE SURVEYED:
			Mouth	P						
			Bay							
	08/27/1997	Amie Shaul	Stream	G	0	0	0	14,000	300	DISTANCE SURVEYED:
			Mouth	G	0	0	0	3,000	0	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks	
					Chinook	Sockeye	Coho	Pink	Chum		
Hansen's Creek, 284-1201											
	08/07/1997	Arnie Shaul	Stream	G	0	0	0	300	0	DISTANCE SURVEYED:	
			Mouth	G	0	0	0	500	0		
			Bay								
	08/13/1997	Arnie Shaul	Stream	G	0	70	0	800	0	DISTANCE SURVEYED:	
			Mouth	G	0	0	0	1,500	0		
			Bay								
	08/27/1997	Arnie Shaul	Stream	F	0	200	0	3,000	0	DISTANCE SURVEYED:	
			Mouth	G	0	0	0	2,000	0		
			Bay								
	, 284-1204										
	08/07/1997	Arnie Shaul	Stream	F		3,000				DISTANCE SURVEYED: RED'S WERE CONCENTRATED ONE BIG SCHOOL IN OUTLET. GOOD SHOWING BUT IMPOSSIBLE TO GET COUNT	
			Mouth								
			Bay								
Middle Lagoon, 284-1205											
	07/03/1997	Arnie Shaul	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: SURVEYED OUTLET ONLY. ONE HOUR AFTER LOW WATER.	
			Mouth			0	0	0	0		
			Bay			0	0	0	0		
	07/09/1997	Arnie Shaul	Stream			200				DISTANCE SURVEYED: SURVEYED LOWER END OF LAGOON. POOR LIGHT, HIGH TIDE. ALL FISH OBSERVED WRE ABOUT 1/4 MILE BELOW WEIR SITE.	
			Mouth								
			Bay								
	07/14/1997	Arnie Shaul	Stream	G	0	800	0	0	0	DISTANCE SURVEYED: SURVEYED BELOW WEIR	
			Mouth			0	0	0	0		
			Bay								
	07/20/1997	Arnie Shaul	Stream	G	0	700	0	0	0	DISTANCE SURVEYED: SURVEYED BELOW WEIR SITE	
			Mouth			0	0	0	0		
			Bay								
	07/24/1997	Arnie Shaul	Stream	G	0	200	0	0	0	DISTANCE SURVEYED:	
			Mouth								
			Bay								

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	sockeye	Coho	Pink	Chum	
	07/26/1997	Arnie Shaul	Stream Mouth Bay	E	0	1,500	0	0	0	DISTANCE SURVEYED:
	08/13/1997	Arnie Shaul	Stream Mouth Bay	G	0	3,500	0	0	0	DISTANCE SURVEYED: SURVEYED BELOW WEIR
	08/27/1997	Arnie Shaul	Stream Mouth Bay	F	0	300	0	0	0	DISTANCE SURVEYED: SURVEYED LAKE ONLY. ALL WERE SPAWNING ON SE SHORE.
	09/02/1997	Arnie Shaul	Stream Mouth Bay	F	0	3,000	0	0	0	DISTANCE SURVEYED: SURVEYED LAKE AND OUTLET ONLY. 200 WERE SPAWNING IN OUTLET.
	09/19/1997	Arnie Shaul	Stream Mouth Bay	F	0	10,400	0	0	0	DISTANCE SURVEYED: SURVEYED MORZHVOI LAKE NAD OUTLET ONLY. 400 WERE SPAWNING IN OUTLET.
	10/03/1997	Arnie Shaul	Stream Mouth Bay	G	0	10,100	0	0	0	DISTANCE SURVEYED: SURVEYED LAKE OUTLET AND SPAWNING GROUNDS OF LAKE ONLY. 500 WERE SPAWNING IN OUTLET.
Cannery Creek, 284-1211	08/27/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	1,500	400	DISTANCE SURVEYED:
Little John Lgn Sspt, 284-1212	08/27/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	0 0	0 1,000	DISTANCE SURVEYED:
Little John Lgn Strm, 284-1213	08/13/1997	Arnie Shaul	Stream Mouth Bay	E G F	0 0 0	5 0 0	0 0 0	400 0 0	500 2,000 0	DISTANCE SURVEYED:

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/18/1997	Arnie Shaul	Stream	E	0	0	0	300	2,600	DISTANCE SURVEYED: ADDITIONAL 1500 CH'S SEEN IN LAGOON, WHICH WAS CHOPPY
			Mouth Bay	G	0	0	0	0	800	
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	1,000	5,300	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	0	5,000	
Sandy Cove Stream, 284-2001	08/07/1997	Arnie Shaul	Stream	G	0	0	0	0	700	DISTANCE SURVEYED: GOOD SHOW OF CH'S AT MOUTH BUT COULDN'T GET COUNT
			Mouth Bay	P						
	08/13/1997	Arnie Shaul	Stream	E	0	0	0	0	3,600	DISTANCE SURVEYED:
			Mouth Bay	P	0	0	0	0	5,000	
	08/27/1997	Arnie Shaul	Stream	E	0	0	0	2,000	16,000	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	0	400	
, 284-2002	08/13/1997	Arnie Shaul	Stream	G	0	0	0	45,000	0	DISTANCE SURVEYED:
			Mouth Bay	P						
Mcginty's Creek, 284-2003	08/07/1997	Arnie Shaul	Stream	G	0	0	0	28,000	0	DISTANCE SURVEYED: LOOKS GOOD
			Mouth Bay	P						
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	32,000	0	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	10,000	0	
Sw Bight Creek, 284-2004	08/07/1997	Arnie Shaul	Stream	G	0	0	0	2,300	0	DISTANCE SURVEYED:
			Mouth Bay	P						

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/13/1997 Arnie Shaul	Stream	E	0	0	0	6,500	0	DISTANCE SURVEYED:		
	Mouth Bay	G	0	0	0	5,000	0			
08/27/1997 Arnie Shaul	Stream	G	0	0	0	10,000	0	DISTANCE SURVEYED:		
	Mouth Bay	G	0	0	0	0	0			
, 284-2005 08/18/1997 Arnie Shaul	Stream Mouth Bay	G	0	400	0	0	0	DISTANCE SURVEYED: BELOW WEIR SITE		
Thin Pt Lgn & Entr., 284-2006 07/02/1997 Arnie Shaul	Stream	G	0	0	0	0	0	DISTANCE SURVEYED: ; NOTHING		
	Mouth	F	0	0	0	0	0			
	Bay		0	0	0	0	0			
07/14/1997 Arnie Shaul	Stream	G	0	1,000	0	0	0	DISTANCE SURVEYED: ; JUMPERS IN MOUTH		
	Mouth Bay	P	0	0	0	0	0			
07/20/1997 Arnie Shaul	Stream	G		1,000				DISTANCE SURVEYED: ;		
	Mouth Bay	P	0	0	0	0	0			
07/24/1997 Arnie Shaul	Stream Mouth Bay	G	0	1,400	0	0	0	DISTANCE SURVEYED:		
07/26/1997 Arnie Shaul	Stream	G	0	1,800	0	0	0	DISTANCE SURVEYED: A FEW STARTING TO MOVE OVER FLATS. NORTH - SOUTH CHANNEL FILLING IN.		
	Mouth	F	0	0	0	0	0			
	Bay	F	0	1,000	0	0	0			
07/31/1997 Arnie Shaul	Stream	G	0	4,000	0	0	0	DISTANCE SURVEYED: TIDE GOING OUT, MAY HAVE MISSED SOME THAT BACKED OUT		
	Mouth Bay	P	0	0	0	0	0			

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/07/1997	Arnie Shaul	Stream	F	0	7,500	0	0	0	DISTANCE SURVEYED: MANY COLORED UP. STILL NOTHING THROUGH WEIR. COUNT LOW DUE TO POOR VISIBILITY IN LAKE END.
			Mouth	P						
			Bay							
	08/09/1997	Arnie Shaul	Stream	F	0	9,500	0	0	0	DISTANCE SURVEYED: POOR VISIBILITY IN LOWER END, FAIR ABOVE
			Mouth	P						
			Bay	P						
	08/18/1997	Arnie Shaul	Stream	F	0	7,000		0	0	DISTANCE SURVEYED: LOWER END TOO MURKY. 5,000 WERE IN N-S CHANNEL.
			Mouth							
			Bay							
	09/02/1997	Arnie Shaul	Stream	P	0	4,600	0	0	0	DISTANCE SURVEYED: MURKY, COULD ONLY SEE COLORED FISH, GOOD WATER FLOW, SOME FISH APPEAR TO HAVE MADE IT OVER THE FLATS
			Mouth							
			Bay							
	09/03/1997	Arnie Shaul	Stream	F			1,800			DISTANCE SURVEYED: LOOKED FOR COHO ONLY. ROUGH ESTIMATE. BETTER CONDITIONS THEN ON 9/2 IN LWR PORTION
			Mouth							
			Bay							
	09/10/1997	Arnie Shaul	Stream	F	0	0	3,500	0	0	DISTANCE SURVEYED: GOOD WATER FLOW OVER FLATS. R'S GONE AND SOME CO APPEAR TO BE MOVING UP TO LAKE.
			Mouth							
			Bay							
	09/19/1997	Arnie Shaul	Stream	F	0	0	1,500	0	0	DISTANCE SURVEYED: GOOD WATER FLOW OVER FLATS MOST COHO SEEN EARLIER MUST HAVE MOVED UP.
			Mouth							
			Bay							
Thin Pt. Lake Strm, 284-2009	09/19/1997	Arnie Shaul	Stream	G		2,000				DISTANCE SURVEYED: ALL SPAWNING
			Mouth	P						
			Bay							
Fox Island Anc. East, 284-3101	08/07/1997	Arnie Shaul	Stream	G	0	0	0	10,300	0	DISTANCE SURVEYED:
			Mouth	F	0	0	0	3,000	0	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/09/1997	Armie Shaul	Stream	G	0	0	0	15,000	0	DISTANCE SURVEYED:
	Mouth		F	0	0	0	5,000	0		
	Bay									
	08/26/1997	Armie Shaul	Stream	G	0	0	0	98,000		DISTANCE SURVEYED: FAR MORE FISH THAN NEEDED
	Mouth		G	0	0	0	12,000			
	Bay									
Fox Island Anc. Ctr., 284-3102	08/07/1997	Armie Shaul	Stream	G	0	0	0	3,300	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	1,500	0		
	Bay									
Fox Island Anc. West, 284-3103	07/31/1997	Armie Shaul	Stream	E	0	0	0	17,000	0	DISTANCE SURVEYED: VERY FEW IN LOWER PORTION, PERHAPS DUE TO WARM WATER. LOOKS GOOD FOR THIS DATE.
	Mouth		G	0	0	0	1,000	0		
	Bay									
	08/07/1997	Armie Shaul	Stream	G	0	0	0	86,000	0	DISTANCE SURVEYED:
	Mouth		F	0	0	0	7,000	0		
	Bay									
	08/26/1997	Armie Shaul	Stream	G	0	0	0	104,000	0	DISTANCE SURVEYED: REALLY LOADED!
	Mouth		F	0	0	0	4,000	0		
	Bay									
Paw Cape (deer Isl.), 284-3105	08/07/1997	Armie Shaul	Stream	G	0	0	0	1,500	0	DISTANCE SURVEYED:
	Mouth		P							
	Bay									
	08/26/1997	Armie Shaul	Stream	G	0	0	0	20,000	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	4,000	0		
	Bay									
Southern Creek, 284-3106	07/20/1997	Armie Shaul	Stream	E	0	0	0	1,800	0	DISTANCE SURVEYED: ;
	Mouth		P	0	0	0	0	0		
	Bay									

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/24/1997	Arnie Shaul	Stream Mouth Bay	E	0	0	0	10,200	0	DISTANCE SURVEYED:
	07/26/1997	Arnie Shaul	Stream Mouth Bay	E				8,000		DISTANCE SURVEYED: VERY FEW IN LOWER HALF MILE
	07/31/1997	Arnie Shaul	Stream Mouth Bay	E P	0 0	0 0	0 0	28,000 0	0 0	DISTANCE SURVEYED: VERY FEW IN LOWER PORTION, PERHAPS DUE TO WARM WATER TEMPERATURES.
	08/07/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	122,000	0	DISTANCE SURVEYED: DJDNT SURVEY INTO CANYON. LIKELY ANOTHER 10-20,000
	08/26/1997	Arnie Shaul	Stream Mouth Bay	E P	0	0	0	21,500	0	DISTANCE SURVEYED:
Eastern Creek, 284-3110	07/20/1997	Arnie Shaul	Stream Mouth Bay	E G	0 0	0 0	0 0	200 300	0 0	DISTANCE SURVEYED: ;
	07/24/1997	Arnie Shaul	Stream Mouth Bay	E P	0	0	0	2,000	0	DISTANCE SURVEYED: ALL IN HOLE BELOW FIRST BEND
	07/26/1997	Arnie Shaul	Stream Mouth Bay	E G	0 0	0 0	0 0	3,000 1,500	0 0	DISTANCE SURVEYED: NOTHING ABOVE FIRST HOLE, CRITICAL NEED FOR RAIN.
	07/31/1997	Arnie Shaul	Stream Mouth Bay	G F	0 0	0 0	0 0	10,400 2,000	0 0	DISTANCE SURVEYED: 10000 WERE IN FIRST HOLE. FISH DONT WANT TO MOVE UP, NEED MORE RAIN
	08/07/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	17,000	0	DISTANCE SURVEYED: 10,000 WERE STILL IN FIRST HOLE.

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
08/09/1997 Arnie Shaul			Stream	E	0	0	0	30,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	10,000	0	
			Bay							
08/26/1997 Arnie Shaul			Stream	E	0	0	0	40,500	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	15,000	0	
			Bay							
Old Man's Lagoon Str, 284-3201 07/14/1997 Arnie Shaul			Stream	E						DISTANCE SURVEYED: ; NOTHING
			Mouth	G						
			Bay							
08/07/1997 Arnie Shaul			Stream	G	0	10	0	0	900	DISTANCE SURVEYED: MOST WERE SPAWNING
			Mouth Bay	P						
08/18/1997 Arnie Shaul			Stream	G	0	10	0	0	1,000	DISTANCE SURVEYED: ALL SPAWNING
			Mouth Bay							
09/02/1997 Arnie Shaul			Stream	G	0	900	0	0	500	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	0	
			Bay							
W Side King Cove Lgn, 284-3303 09/03/1997 Arnie Shaul			Stream	G	0	0	0	100	200	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	500	
			Bay							
Head King Cove Lgn, 284-3304 09/03/1997 Arnie Shaul			Stream	G	0	0	0	0	1,000	DISTANCE SURVEYED:
			Mouth	F	0	0	0	0	12,000	
			Bay	F	0	0	0	0	0	
Ram's Creek, 284-3305 08/09/1997 Arnie Shaul			Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED: 1,500 WERE ABOVE CULVERT
			Mouth	F	0	0	0	5,000	0	
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/18/1997	Arnie Shaul	Stream	F	0	0	0	10,500	0	DISTANCE SURVEYED: LOTS OF JUMPERS ALONG BEACH TO SOUTH. POOR LIGHT, 9:45PM.
			Mouth Bay	G	0	0	0	5,000	0	
	08/20/1997	Arnie Shaul	Stream	G	0	0	0	12,800	0	DISTANCE SURVEYED: 4800 ABOVE CULVERT BETTER CONDITIONS THAN ON AUGUST 18.
			Mouth Bay	G	0	0	0	12,000	0	
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	26,400	1,000	DISTANCE SURVEYED: SPECIES ID VERY ROUGH
			Mouth	G	0	0	0	2,000	0	
			Bay	G	0	0	0	7,000	0	
Mortensen Lagoon, 284-3401			Stream	E	0	20	0	0	DISTANCE SURVEYED: SURVEYED ONLY SPAWNING CREEK AND IT'S MOUTH	
08/09/1997	Arnie Shaul	Mouth Bay		G	0	600	0	0		
	08/20/1997	Arnie Shaul	Stream	F	0	200	0	0	DISTANCE SURVEYED: SURVEYED SPAWNING STREAM ONLY, ADDITIONAL 2,500 R'S AT CREEK MOUTH.	
			Mouth Bay							
	09/02/1997	Arnie Shaul	Stream	G	0	1,300	0	0	DISTANCE SURVEYED:	
			Mouth Bay	G	0	1,800	0	0		
	09/19/1997	Arnie Shaul	Stream	G	0	1,200	0	0	DISTANCE SURVEYED: CURVEYED CRBEK ONLY, AN ADDITIONAL 50 R'S AT MOUTH	
			Mouth Bay							
	10/03/1997	Arnie Shaul	Stream	G	0	900	0	0	DISTANCE SURVEYED: 100 WERE SPAWNING IN LAKE, SURVEYED CREEK AND SPAWNING GROUNDS OF LAKE	
			Mouth Bay							
Russel Creek, 284-3402			Stream	E	0	0	0	2,000	DISTANCE SURVEYED: ; ALL BELOW HATCHERY	
07/14/1997	Arnie Shaul	Mouth Bay		G	0	0	0	300		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	07/20/1997	Arnie Shaul	Stream	E	0	0	0	0	3,200	DISTANCE SURVEYED: 400 WERE ABOVE HATCHERY
			Mouth Bay	P	0	0	0	0	0	
	07/24/1997	Arnie Shaul	Stream Mouth Bay	E	0	0	0	0	8,100	DISTANCE SURVEYED: 900 ABOVE HATCHERY, A FEW SPAWNING
	08/07/1997	Arnie Shaul	Stream Mouth Bay	F P	0	0	0	0	18,000	DISTANCE SURVEYED: 9000 ABOVE HATCHERY
	08/13/1997	Arnie Shaul	Stream Mouth Bay	E P	0	0	0	0	20,000	DISTANCE SURVEYED: 8000 WERE ABOVE HATCHERY
	08/18/1997	Arnie Shaul	Stream Mouth Bay	F P	0	0	0	0	24,000	DISTANCE SURVEYED: 9000 WERE ABOVE HATCHERY, SOME ADDITIONAL CARCASSES
	08/26/1997	Arnie Shaul	Stream Mouth Bay	G	0	200	0	0	34,000	DISTANCE SURVEYED: REDS IN LAKE, 16000 CHUMS ABOVE HATCHERY
	10/03/1997	Arnie Shaul	Stream Mouth Bay	G	0	0	2,000	0	0	DISTANCE SURVEYED: IN SMALL SCHOOLS, ROUGHLY HALF ABOVE HATCHERY, TURNING COLOR.
Trout Creek, 284-3403	08/27/1997	Arnie Shaul	Stream	G	0	100	600	0	100	DISTANCE SURVEYED: CHUMS SPAWNING REDS SPAWNING IN SOUTH FORK LAKE. COHO'S BELOW ROAD
			Mouth Bay	F	0	0	0	0	0	
Kinzarof Lagoon, 284-3407	08/27/1997	Arnie Shaul	Stream Mouth Bay	G	0	600	0	0	0	DISTANCE SURVEYED: SURVEYED LAKES ONLY

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Barney's Creek, 284-3409										
	08/09/1997	Arnie Shaul	Stream	G	0	0	0	7,000	0	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	30,000	1,000	
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	20,000	0	DISTANCE SURVEYED: SOME MAY HAVE BEEN CHUMS IN
			Mouth Bay	G	0	0	0	12,000	0	LWR END OR AT MOUTH TRUBULENT.
	09/03/1997	Arnie Shaul	Stream	G					1,500	DISTANCE SURVEYED: COUNTED CH'S ONLY. SAW NO P'S
			Mouth Bay	G					1,000	AT MOUTH
Delta Crk. Lenard Hb, 284-3410										
	08/01/1997	Arnie Shaul	Stream							DISTANCE SUREYED:
			Mouth Bay	E	0	0	0	0	10,000	
	08/09/1997	Arnie Shaul	Stream	F	0	0	0	0	900	DISTANCE SURVEYED:
			Mouth Bay	P						
	08/20/1997	Arnie Shaul	Stream	F	0	0	0	800	5,900	DISTANCE SURVEYED: MAIN STREAM MURKY
			Mouth Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	2,000	11,000	DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	0	1,000	
	09/11/1997	Arnie Shaul	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED: NEW SALMON STREAM
			Mouth Bay							
Lenard Hbr. South, 284-3411										
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	8,000		DISTANCE SURVEYED:
			Mouth Bay	G	0	0	0	15,000		

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/11/1997	Arnie Shaul	Stream Mouth Bay	G	0	0	0	200	0	DISTANCE SURVEYED: NEW SALMON STREAM
Belkofski Village Cr, 284-4101	08/01/1997	Arnie Shaul	Stream Mouth Bay	E G	0 0	0 0	0 0	1,400 500	0 0	DISTANCE SURVEYED:
	08/07/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	8,000 2,000	0 0	DISTANCE SURVEYED:
	08/09/1997	Arnie Shaul	Stream Mouth Bay	G F	0 0	0 0	0 0	7,000 2,000	0 0	DISTANCE SURVEYED: NOT AS GOOD CONDITIONS AS PREVIOUS SURVEY. NO FLAPS!
	08/20/1997	Arnie Shaul	Stream Mouth Bay	E G				18,000 5,000		DISTANCE SURVEYED: WHAT HAPPENED TO LARGE NUMBER OF P'S SEEN AT MOUTH ON 8/12?
	08/26/1997	Arnie Shaul	Stream Mouth Bay	E G	0 0	0 0	0 0	29,000 20,000	0 0	DISTANCE SURVEYED:
Indian Head, 284-4203	08/18/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	5,900 10,000	0 0	DISTANCE SURVEYED:
	08/20/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	3,000 9,000		DISTANCE SURVEYED: BETTER CONDITIONS THAN ON AUGUST 18.
	09/03/1997	Arnie Shaul	Stream Mouth Bay	E G G	0 0 0	0 0 0	0 0 0	9,000 10,000 4,000	0 0 0	DISTANCE SURVEYED:

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Belkofski Bay, West, 284-4205										
	08/09/1997	Arnie Shaul	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	3,000	0	
			Bay							
	08/20/1997	Arnie Shaul	Stream	G	0	0	0	2,200	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	1,500	0	
			Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	12,500	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	0	
			Bay	G	0	0	0	200	0	
Belkofski Bay Beach, 284-4206										
	08/09/1997	Arnie Shaul	Stream	G	0	0	0	200	0	DISTANCE SURVEYED:
			Mouth	P						
			Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	2,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	300	0	
			Bay							
Belkofski Bay River, 284-4207										
	08/09/1997	Arnie Shaul	Stream	G	0	0	0	100	2,000	DISTANCE SURVEYED: SURVEYED ONLY ABOVE GLACIAL TRIB. LOWER END TOO MURKY.
			Mouth	P						
			Bay							
	08/18/1997	Arnie Shaul	Stream	F	0	0	0	1,000	11,000	DISTANCE SURVEYED: ADDITIONAL 9000 CH'S IN CAPTAINS HARBOR.
			Mouth	F	0	0	0	0	25,000	
			Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	3,000	32,000	DISTANCE SURVEYED: ADDITIONAL 2000 CH'S AT MOUTH
			Mouth	G	0	0	0	0	2,000	
			Bay							
Captain's Harbor, 284-4209										
	08/20/1997	Arnie Shaul	Stream	G	0	0	0	700	100	DISTANCE SURVEYED:
			Mouth							
			Bay							

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997	Armie Shaul	Stream	G	0	0	0	9,000	300	DISTANCE SURVEYED:
	Mouth		F	0	0	0	0	2,000		
	Bay									
Kitchen Anchorage, 284-4210	08/20/1997	Armie Shaul	Stream	E	0	0	0	900	0	DISTANCE SURVEYED: JUMPERS OUTSIDE MARKERS
	Mouth		G	0	0	0	25,000	0		
	Bay									
	09/03/1997	Armie Shaul	Stream	G	0	0	0	6,000	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	13,000	0		
	Bay									
Rocky River, 284-4212	08/01/1997	Armie Shaul	Stream	E	0	0	0	0	0	DISTANCE SURVEYED: CREEK IN DESPERATE NEED OF RAIN
	Mouth		G	0	0	0	10,000	0		
	Bay									
	08/07/1997	Armie Shaul	Stream		0	0	0	7,000		DISTANCE SURVEYED: SURVEYED BALOW CANYON, LIKELY ANOTHER 4-5000 IN CANYON
	Mouth		P							
	Bay									
	08/09/1997	Armie Shaul	Stream	G	0	0	0	8,000	0	DISTANCE SURVEYED: HIGH SPEED, NO FLAPS!
	Mouth		G	0	0	0	5,000	0		
	Bay									
	08/26/1997	Armie Shaul	Stream	G	0	0	0	13,000	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	10,000	0		
	Bay									
Dolgoi Hbr, Nw, 284-5103	09/03/1997	Armie Shaul	Stream	G	0	0	0	1,500	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	0		
	Bay									
Dolgoi Hbr, South, 284-5105	09/03/1997	Armie Shaul	Stream	G	0	0	0	500	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	0		
	Bay									

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
Dolgoi Hbr, Sw, 284-5106										
	08/01/1997	Arnie Shaul	Stream Mouth Bay	E	0	0	0	4,000	0	DISTANCE SURVEYED:
	08/07/1997	Arnie Shaul	Stream Mouth Bay	G G P	0 0	0 0	0 0	1,000 5,000	0 0	DISTANCE SURVEYED:
	09/03/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	6,500 4,000	0 0	DISTANCE SURVEYED:
Nikolaski, 284-5201										
	08/09/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	700	0	DISTANCE SURVEYED:
	08/20/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	5,000 4,000	0 0	DISTANCE SURVEYED:
	08/26/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	17,000 5,000	0 0	DISTANCE SURVEYED:
Little Bear Bay, 284-5203										
	08/20/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	0 1,000	0 10,000	DISTANCE SURVEYED:
	09/03/1997	Arnie Shaul	Stream Mouth Bay	G G G	0 0 0	0 0 0	0 0 0	1,400 0 0	100 7,000 13,000	DISTANCE SURVEYED:
Stub Creek, 284-5204										
	08/20/1997	Arnie Shaul	Stream Mouth Bay	G G	0 0	0 0	0 0	0 6,000	0 0	DISTANCE SURVEYED:

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	5,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	4,000	0	
			Bay							
Stream Guard Creek, 284-5205	09/03/1997	Arnie Shaul	Stream	G	0	0	0	200	500	DISTANCE SURVEYED: MOST CH'S AT MOUTH PROBABLY GOING TO OTHER VOLCANO BAY STREAMS
			Mouth	G	0	0	0	0	10,000	
			Bay		0	0	0	0	0	
West Spring Holes, 284-5206	08/09/1997	Arnie Shaul	Stream	G	0	0	0	400	500	DISTANCE SURVEYED:
			Mouth	P						
			Bay							
	08/18/1997	Arnie Shaul	Stream							DISTANCE SURVEYED:
			Mouth	F	0	0	0	0	10,000	
			Bay							
	08/19/1997	Arnie Shaul	Stream	E	0	0	0	1,900	600	DISTANCE SURVEYED: MOST OF THE CHUMS AT MOUTH MUST BE DESTINED FOR 5207 & 08
			Mouth	E	0	0	0	0	28,000	
			Bay							
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	14,000	5,000	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	7,000	
			Bay							
Volcano Sloughs-ctr, 284-5207	08/09/1997	Arnie Shaul	Stream	G	0	0	0	0	0	DISTANCE SURVEYED:
			Mouth	F	0	0	0	0	11,000	
			Bay							
	08/18/1997	Arnie Shaul	Stream							DISTANCE SURVEYED: POOR LIGHT. 9:15 PM
			Mouth	F	0	0	0	0	19,000	
			Bay							
	08/19/1997	Arnie Shaul	Stream	E	0	0	0	300	500	DISTANCE SURVEYED: LOTS OF FISH IN THE DEEP
			Mouth	E	0	0	0	0	13,000	
			Bay							

-Continued-

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	2,000	4,000	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	20,000		
	Bay									
Volcano River, 284-5208	08/09/1997	Arnie Shaul	Stream	G	0	0	0	900	900	DISTANCE SURVEYED:
	Mouth		F	0	0	0	0	0		
	Bay									
	08/18/1997	Arnie Shaul	Stream	F	0	0	0	800	5,000	DISTANCE SURVEYED: POOR LIGHT, 9:15 PM.
	Mouth		F	0	0	0	0	5,000		
	Bay									
	08/19/1997	Arnie Shaul	Stream	E	0	0	0	2,000	4,700	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	6,000		
	Bay									
	09/03/1997	Arnie Shaul	Stream	G	0	0	0	9,000	12,000	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	4,000		
	Bay		F	0	0	0	0	3,000		
	09/11/1997	Arnie Shaul	Stream	G	0	0	0	2,000	13,500	DISTANCE SURVEYED:
	Mouth		G	0	0	0	0	2,000		
	Bay		F	0	0	0	0	12,000		
Katan Pt Stream, 284-6001	08/13/1997	Arnie Shaul	Stream	G	0	0	0	2,500	100	DISTANCE SURVEYED:
	Mouth		P	0	0	0	0	300		
	Bay									
	08/27/1997	Arnie Shaul	Stream	E	0	0	0	4,000	0	DISTANCE SURVEYED:
	Mouth		P							
	Bay									
Swede's Lake, 284-6003	08/13/1997	Arnie Shaul	Stream	G	0	0	0	150	0	DISTANCE SURVEYED:
	Mouth		G	0	0	0	200	0		
	Bay									

-Continued-

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Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	Sockeye	Coho	Pink	Chum	
	08/27/1997	Arnie Shaul	Stream	G	0	180	0	300		DISTANCE SURVEYED: 50R'S STILL SCHOOLED
			Mouth	G	0	0	0	0	0	
			Bay							
Ikatan River, 284-6004	08/27/1997	Arnie Shaul	Stream	G				3,000	200	DISTANCE SURVEYED: SURVEYED CLEAR TRIBUTARY ONLY
			Mouth	P						
			Bay							
Whirl Point, 284-6005	08/07/1997	Arnie Shaul	Stream	G	0	0	0	200	0	DISTANCE SURVEYED:
			Mouth	P	0	0	0	0	0	
			Bay							
	08/13/1997	Arnie Shaul	Stream	E	0	0	0	400	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	8,000	0	
			Bay							
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	5,000	0	DISTANCE SURVEYED:
			Mouth	G	0	0	0	8,000	0	
			Bay							
Sankin Bay Creek, 284-6006	08/13/1997	Arnie Shaul	Stream	G					300	DISTANCE SURVEYED:
			Mouth	P						
			Bay							
	08/27/1997	Arnie Shaul	Stream	G	0	0	0	1,500	500	DISTANCE SURVEYED:
			Mouth	G	0	0	0	0	100	
			Bay							
Deadman's Cove, 284-6008	08/07/1997	Arnie Shaul	Stream	G	0	300	0	500	0	DISTANCE SURVEYED: R'S IN LAKE, P'S IN LWR QUARTER MILE
			Mouth	P						
			Bay							
	08/13/1997	Arnie Shaul	Stream	G	0	300	0	7,600	0	DISTANCE SURVEYED:
			Mouth	P						
			Bay							

-Continued-

Stream	Date	Observer	Location	Visi- bility	Species					Observer Remarks
					Chinook	sockeye	Coho	Pink	Chum	
	08/27/1997	Arnie Shaul	Stream Mouth Bay	G P	0	500	0	16,000	0	DISTANCE SURVEYED: TURBULENT IN LWR END
, 285-40	08/07/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	0	200	DISTANCE SURVEYED:
Otter Cove, East, 285-4008	08/13/1997	Arnie Shaul	Stream Mouth Bay	G				700	600	DISTANCE SURVEYED:
	08/27/1997	Arnie Shaul	Stream Mouth Bay	G F	0 0	0 0	0 0	12,000 0	2,000 200	DISTANCE SURVEYED: AMAZING PINK ESCAPEMENT FOR ODD NUMBERED YEAR
Otter Cove, West, 285-4009	08/07/1997	Arnie Shaul	Stream Mouth Bay	G P	0	0	0	0	200	DISTANCE SURVEYED:
	08/13/1997	Arnie Shaul	Stream Mouth Bay	E P	0	0	0	8,800	700	DISTANCE SURVEYED: VERY GOOD FOR ODD YR. CYCLE
	08/27/1997	Arnie Shaul	Stream Mouth Bay	E P	0	0	0	20,000	0	DISTANCE SURVEYED: AMAZING ESCAPEMENT FOR ODD NUMBERD YEAR

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:

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.

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.

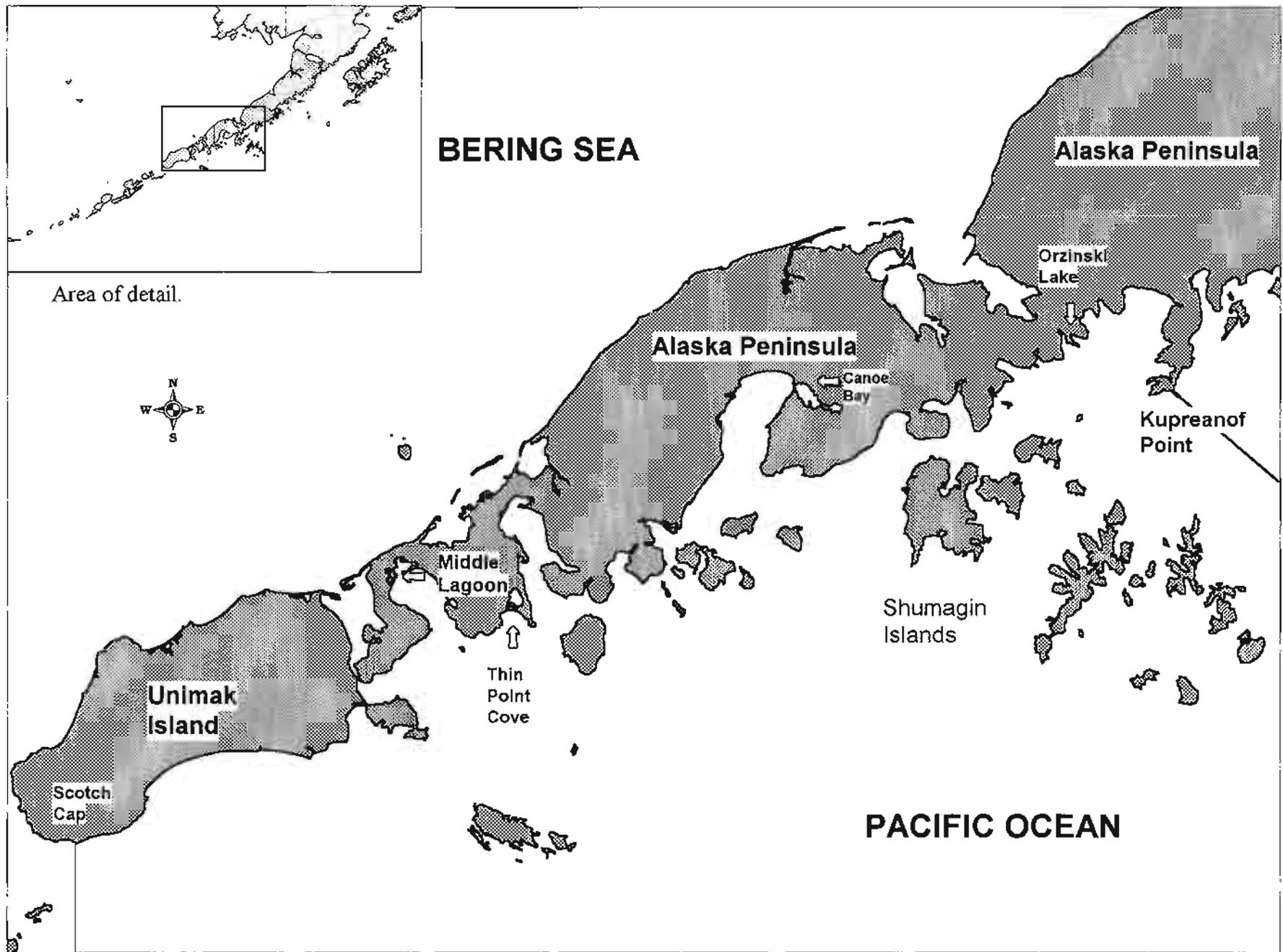
Pink and Chum Salmon: An approximate 21-day stream life is used to calculate total pink and chum escapements. Fish in saltwater during the final survey are added:

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	

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, 1962-97.

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
1997	104,440		5,243,275	809,050	6,156,765
Average 1962-76 ^b	27,813		957,887	294,400	1,280,100

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Average 1977-97 ^b	74,638	87,500	2,780,538	520,890	3,376,065
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Average 1988-97	99,710	87,500	3,344,909	520,658	3,965,277
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^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.

Weir Locations	Dates		Salmon Species Enumerated				Total
	Installed	Removed	Sockeye	Coho	Pink	Chum	
1. Orzinski	12-Jun	26-Jul	24,938	0	5	3	24,946
2. Thin Point	7-Aug	24-Aug	1,488	0	0	0	1,488
Totals			26,426	0	5	3	26,434

Appendix F.6. Sockeye salmon daily and cumulative escapement counts through the Orzinski Lake weir, 1997.

Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
June 12-15	0	0	0	0	0	0
16-Jun	12	0	12	12	0	12
17-Jun	16	1	17	28	1	29
18-Jun	0	0	0	28	1	29
19-Jun	8	0	8	36	1	37
20-Jun	0	0	0	36	1	37
21-Jun	20	0	20	56	1	57
22-Jun	17	0	17	73	1	74
23-Jun	127	1	128	200	2	202
24-Jun	8	0	8	208	2	210
25-Jun	0	0	0	208	2	210
26-Jun	8	0	8	216	2	218
27-Jun	11	5	16	227	7	234
28-Jun	867	10	877	1,094	17	1,111
29-Jun	68	2	70	1,162	19	1,181
30-Jun	82	4	86	1,244	23	1,267
1-Jul	33	0	33	1,277	23	1,300
2-Jul	55	4	59	1,332	27	1,359
3-Jul	1,691	47	1,738	3,023	74	3,097
4-Jul	2,974	76	3,050	5,997	150	6,147
5-Jul	10	0	10	6,007	150	6,157
6-Jul	5,174	34	5,208	11,181	184	11,365
7-Jul	2,495	9	2,504	13,676	193	13,869
8-Jul	245	1	246	13,921	194	14,115
9-Jul	375	3	378	14,296	197	14,493
10-Jul	299	6	305	14,595	203	14,798
11-Jul	50	7	57	14,645	210	14,855
12-Jul	96	3	99	14,741	213	14,954
13-Jul	130	5	135	14,871	218	15,089
14-Jul	35	1	36	14,906	219	15,125
15-Jul	1,180	28	1,208	16,086	247	16,333
16-Jul	933	31	964	17,019	278	17,297
17-Jul	306	42	348	17,325	320	17,645
18-Jul	1,369	80	1,449	18,694	400	19,094

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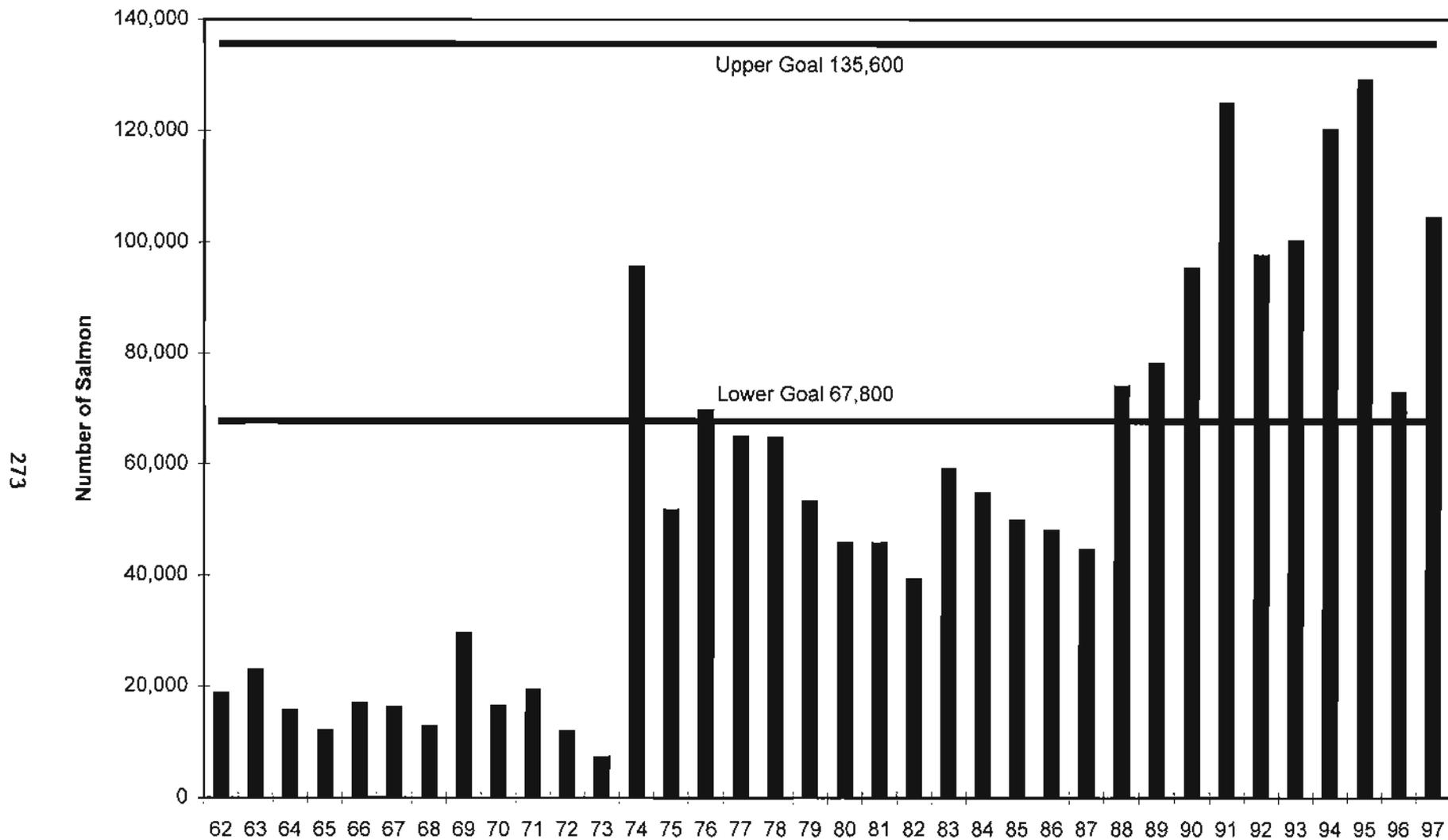
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Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
19-Jul	1,208	43	1,251	19,902	443	20,345
20-Jul	1,010	42	1,052	20,912	485	21,397
21-Jul	1,703	38	1,741	22,615	523	23,138
22-Jul	1,253	22	1,275	23,868	545	24,413
23-Jul	326	6	332	24,194	551	24,745
24-Jul	9	0	9	24,203	551	24,754
25-Jul	44	0	44	24,247	551	24,798
26-Jul	122	18	140	24,369	569	24,938
Post July 26 ^a	9,790	272	10,062	34,159	841	35,000
Total	34,159	841	35,000	34,159	841	35,000

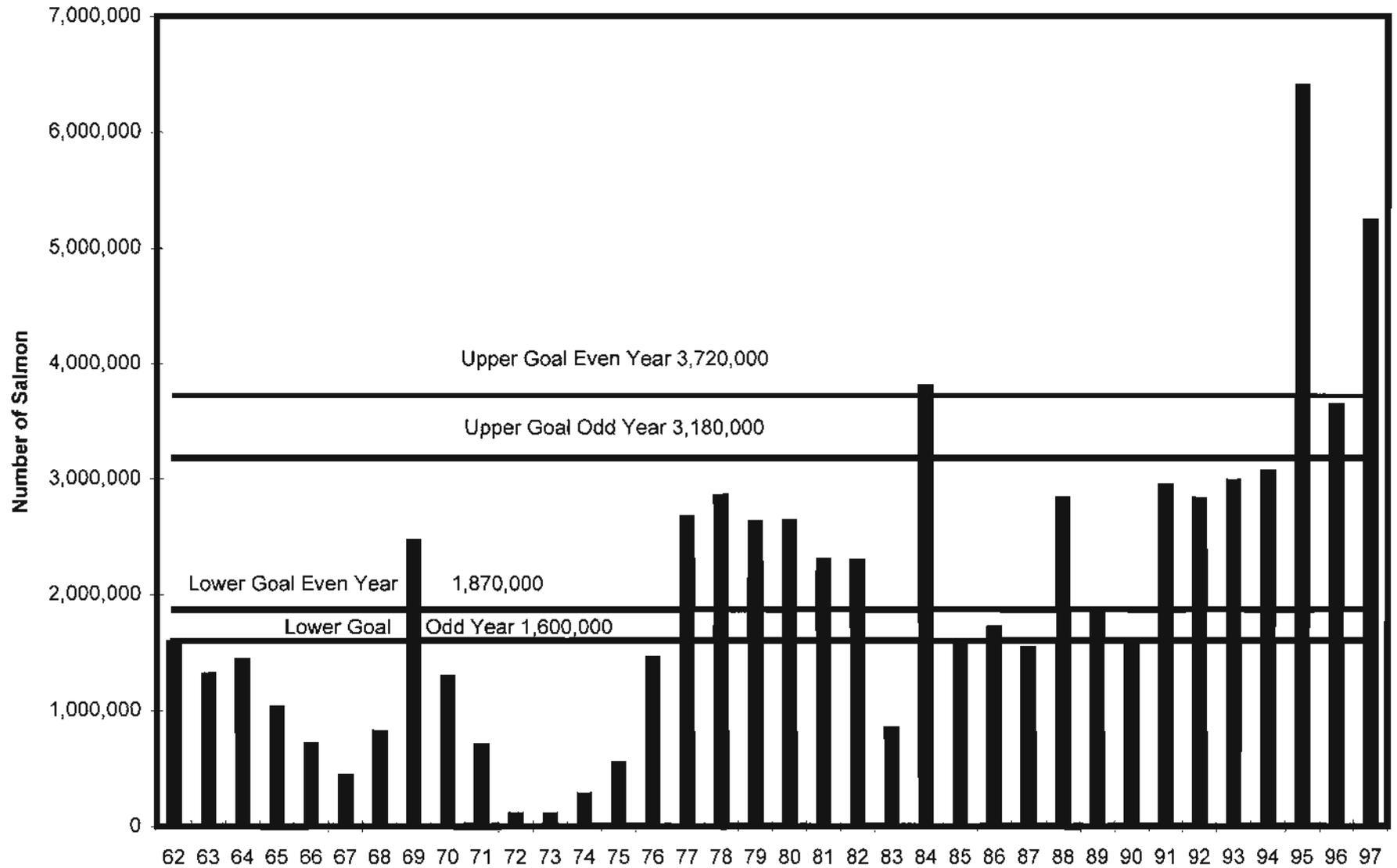
^a July 26 was the last day salmon were counted through the weir. Post July 26 escapement was based on aerial surveys and adult to jack salmon ratios for the week of July 20-26.

Appendix F.7. Sockeye salmon daily and cumulative escapement counts through the Thin Point Lake weir, 1997.

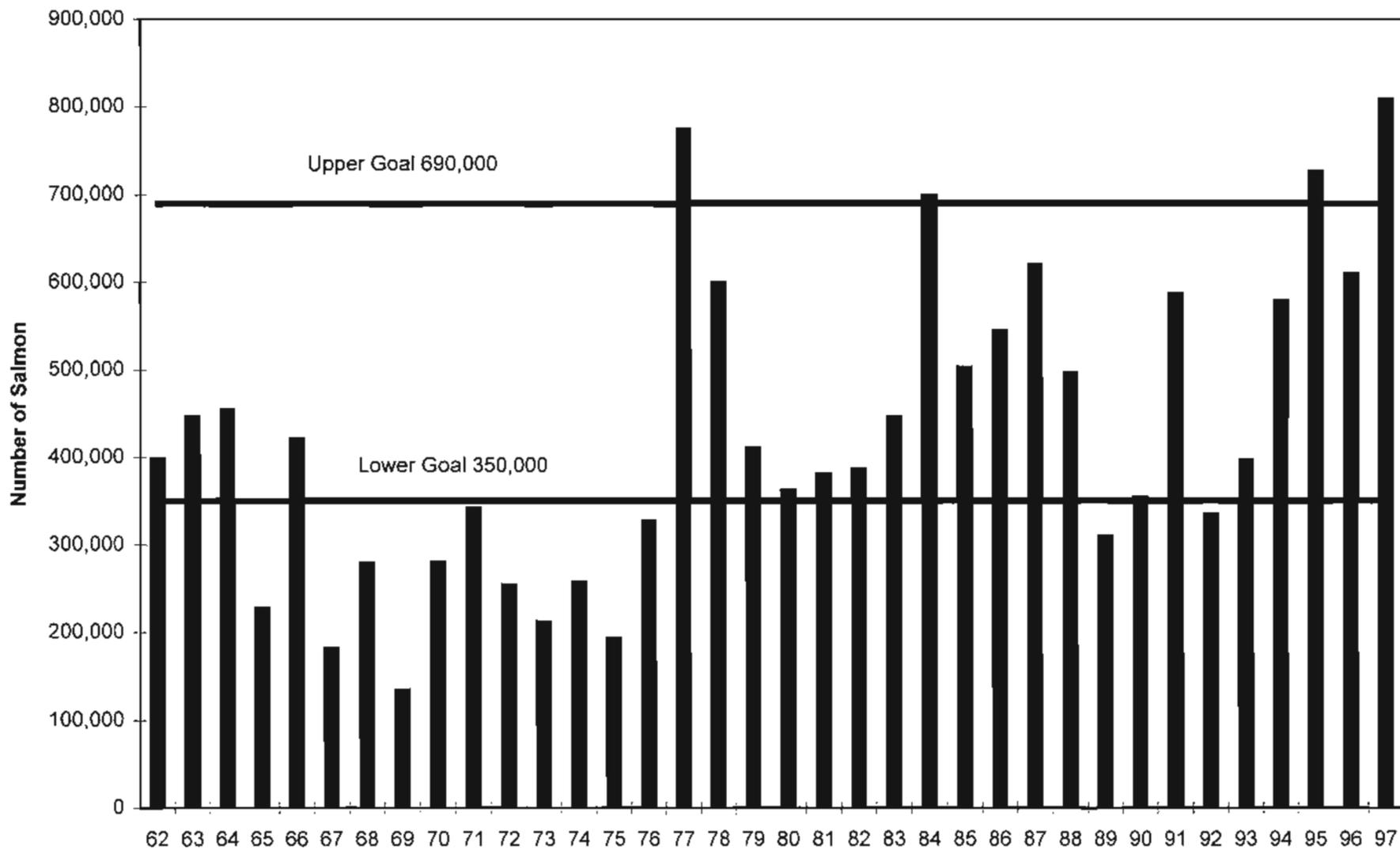
Date	Daily			Cumulative			Daily Percent		Cumulative Percent		
	Adults	Jacks	Total	Adults	Jacks	Total	Adults	Jacks	Adults	Jacks	Total
May 29 to											
August 7	0	0	0	0	0	0	0.0	0.0	0.0%	0.0%	0.0%
8	3	0	3	3	0	3	100%	0%	0.2%	0.0%	0.2%
9	0	0	0	3	0	3	0%	0%	0.2%	0.0%	0.2%
10	0	0	0	3	0	3	0%	0%	0.2%	0.0%	0.2%
11	0	0	0	3	0	3	0%	0%	0.2%	0.0%	0.2%
12	1	0	1	4	0	4	100%	0%	0.3%	0.0%	0.3%
13	0	0	0	4	0	4	0%	0%	0.3%	0.0%	0.3%
14	33	0	33	37	0	37	100%	0%	2.5%	0.0%	2.5%
15	191	2	193	228	2	230	99%	1%	15.3%	0.1%	15.5%
16	539	23	562	767	25	792	96%	4%	51.6%	1.7%	53.3%
17	174	8	182	941	33	974	96%	4%	63.3%	2.2%	65.5%
18	17	0	17	958	33	991	100%	0%	64.4%	2.2%	66.6%
19	26	2	28	984	35	1,019	93%	7%	66.2%	2.4%	68.5%
20	372	18	390	1,356	53	1,409	95%	5%	91.2%	3.6%	94.8%
21	15	0	15	1,371	53	1,424	100%	0%	92.2%	3.6%	95.8%
22	0	0	0	1,371	53	1,424	0%	0%	92.2%	3.6%	95.8%
23	62	0	62	1,433	53	1,486	100%	0%	96.4%	3.6%	99.9%
24	1	0	1	1,434	53	1,487	100%	0%	96.4%	3.6%	100.0%
Total	1,434	53	1,487								
Post Weir Escapement						8,512					
Total						10,000					



Appendix F.8. South Peninsula total indexed sockeye salmon escapement by year, 1962-97.



Appendix F. 9. South Peninsula total indexed pink salmon escapement by year, 1962-97.



Appendix F. 10. South Peninsula total indexed chum escapement by year, 1962-97.

Appendix F.11. South Peninsula total indexed salmon escapements by species and districts, 1997^a.

District	Sockeye	Pink	Chum	Total
Southeastern	50,350	1,745,175	267,650	2,063,175
South Central	5,450	2,276,200	274,400	2,556,050
Southwestern	42,640	1,178,200	263,700	1,484,540
Unimak	6,000	43,700	3,300	53,000
Totals	104,440	5,243,275	809,050	6,156,765

^a No escapement data is available for coho salmon.

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