

# SOUTH PENINSULA ANNUAL SALMON MANAGEMENT REPORT, 2001

By

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and  
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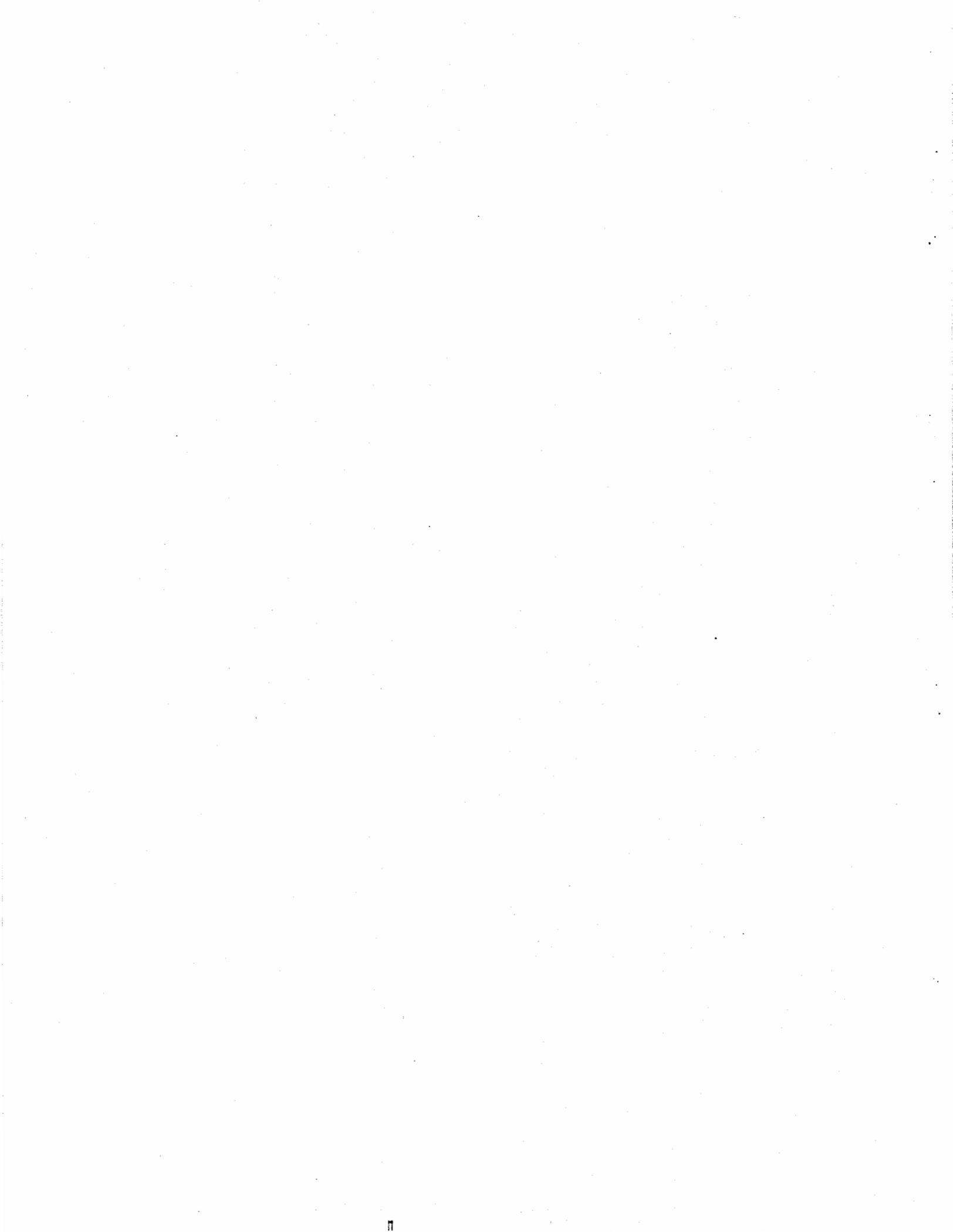
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## ABSTRACT

A price dispute resulted in much reduced fishing effort during the June fishery on the South Peninsula. During the 2001 Shumagin Islands June fishery, 29,085 sockeye salmon *Oncorhynchus nerka* and 11,402 chum salmon *O. keta* were harvested. The 2001 South Unimak fishery harvest included 121,547 sockeye salmon and 36,099 chum salmon. The combined South Unimak and Shumagin Island salmon harvest included 150,632 sockeye and 48,350 chum salmon.

Only a few landings were made in the Southeastern District Mainland (SEDM) fishery prior to the cessation of price negotiations on July 8. The SEDM harvest prior to July 25 was 106,607 sockeye salmon. Price negotiations in the SEDM and the Chignik Management Area (CMA) necessitated the department to estimate foregone harvest in both areas to adhere to established sockeye allocation guidelines. The estimated Chignik bound component of SEDM harvest, both actual and foregone, was 79,037 sockeye salmon. This harvest constituted 5.5% (6.0% allocation) of the total Chignik bound sockeye salmon harvest through July 25. The total harvest for the Northwest Stepovak Section through July 25 (including Orzinski Bay) was 42,681 sockeye salmon.

Test fishing in the Shumagin Island Section on July 5 indicated a low enough abundance of immature salmon to allow a fishery on July 6. However, an ongoing price dispute resulted in no harvest effort on that date. Subsequent test fishing on July 7-14 indicated increased immature salmon abundance above the regulatory threshold and the fishery remained closed until July 17.

The post-June non-terminal harvest during the July 6-21 period included 520 chinook *O. tshawytscha*, 86,599 sockeye, 67,192 coho *O. kisutch*, 213,551 pink *O. gorbscha*, and 76,302 chum salmon. Additional fishing time was permitted in designated terminal areas as escapement warranted. The July 6-21 harvest from terminal areas included 0 chinook, 322 sockeye, 34 coho, 41,189 pink, and 54,491 chum salmon.

The July 22-31, non-terminal harvest included 339 chinook, 39,473 sockeye, 60,079 coho, 457,218 pink, and 78,141 chum salmon. Due to a relatively high abundance of coho salmon in late July, fishing time and area reductions were necessary to avoid exceeding the 60,000 coho salmon cap. Fishing effort in terminal areas was allowed as escapements warranted and salmon harvest included 13 chinook, 8,812 sockeye, 284 coho, 274,893 pink, and 70,184 chum salmon.

During August 2001, pink and chum salmon runs on the South Peninsula were generally strong and there was relatively little fishing effort and weak markets. Total harvest during August included 892 chinook, 116,518 sockeye, 62,924 coho, 2,712,141 pink, and 494,206 chum salmon.

The weak salmon markets resulted in no effort in the fall fishery (beginning September 1) outside of the Southeastern District. The salmon harvest for September in the Southeastern District included 16 chinook, 97,717 sockeye, 17,317 coho, 1,824 pink, and 2,894 chum salmon.

Escapements for sockeye, pink, and chum salmon were within or above the desired optimum ranges in most South Peninsula streams in 2001.

## INTRODUCTION

The Alaska Peninsula Salmon Management Area includes waters of the North Peninsula from Cape Mensehikof west to Cape Sarichef, and waters of the South Peninsula from Kupreanof Point west to Scotch Cap on Unimak Island (Appendix A.1). This report describes those commercial salmon fisheries located on the South Peninsula, which are further divided into four districts: (1) the Southeastern District, consisting of waters between Kupreanof Point and McGinty Point; (2) the South Central District, consisting of waters between McGinty Point and Arch Point Light; (3) the Southwestern District, consisting of waters between Arch Point Light, False Pass, and Cape Pankof; and (4) the 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 that 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 Stepovak, Balboa, and Beaver Bays (Appendix A.3).

Five species of Pacific salmon are commercially harvested in the Alaska Peninsula Salmon Management Area (Area M): chinook salmon *Oncorhynchus tshawytscha*, sockeye salmon *O. nerka*, coho salmon *O. kisutch*, pink salmon *O. gorbuscha*, and chum salmon *O. keta*. 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 2001). Drift gillnet gear is excluded from a portion of South Peninsula waters. Of those Area M permits that fished in 2001, most were utilized in South Peninsula waters at some time during 2001. In 2001, 64 of 121 available purse seine permits recorded landings in South Peninsula waters (lowest since 1975), as did 99 of 160 drift gillnet permits, and 78 of 115 set gillnet permits (Appendix A.7).

The underlying information in this report is organized in five series of appendix tables. Appendix A (Appendix A.1-A.14) contains areawide harvest, management, and geographic information in tables and maps. Appendix B (Appendix B.1-B.23) contains harvest information specific to the South Unimak and Shumagin Islands June Fisheries. Appendix C (Appendix C.1-C.13) includes harvest information specific to the Southeastern District Mainland Fishery. Appendix D (Appendix D.1-D.24) contains harvest information concerning the South Peninsula post-June fishery. Appendix E (Appendix E.1-E.9) includes information concerning salmon escapement in South Peninsula streams.

During recent years, most of the purse seine and set gillnet permit holders fished South Peninsula waters throughout the season, while most of the drift gillnet permit holders fished South Unimak waters during June and North Peninsula waters from July into September (Murphy et al. 2000). In South Peninsula waters, drift gillnet gear is only allowed by regulation in the Unimak District and the Ikatán Bay Section of the Southwestern District (Appendix A.8). 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.

The Alaska Department of Fish and Game (ADF&G) staff stationed at Sand Point and Cold Bay (Appendix A.2) offices manage the South Peninsula commercial salmon fisheries. In 1990, the

Sand Point staff assumed responsibility for managing salmon fisheries in the Southeastern District. The rest of the South Peninsula salmon fisheries are managed from Cold Bay.

### *South Peninsula Areawide Information*

#### **Introduction**

Commercial salmon fisheries in South Peninsula waters date back to at least 1888, when canneries were operated at Orzinski (Orzenoi) Bay and Thin Point Cove, but catch records are not available prior to 1908. Computerized fish ticket data has been available since 1970.

#### **Historical Salmon Production, 1908-2000**

Historically, South Peninsula salmon production has fluctuated dramatically for all species. Pink and chum salmon are the most abundant salmon species in the South Peninsula (Appendix A.9). Since 1962, annual pink salmon catch and escapement (excluding June migrants) has ranged from a low of 149,300 in 1973 to a high of 22,530,258 in 1995 (Appendix A.10). Since 1962, annual chum salmon catch and escapement (excluding June migrants) has ranged from a low of 223,228 in 1975 to a high of 2,172,690 in 1994 (Appendix A.11).

The 1947-1977 South Peninsula annual harvests for all species (including migrants) averaged approximately 2,896,285 salmon composed of 2,567 chinook, 591,844 sockeye, 26,747 coho, 1,523,900 pink, and 751,226 chum salmon (Appendix A.12). From 1978 through 2000, the South Peninsula annual harvest averaged 10,507,144 salmon composed of 9,008 chinook, 2,249,059 sockeye, 257,739 coho, 6,672,991 pink, and 1,318,346 chum salmon. From 1991 through 2000, the South Peninsula annual harvest has averaged 12,048,850 salmon composed of 8,662 chinook, 2,558,537 sockeye, 248,921 coho, 8,040,306 pink, and 1,192,424 chum salmon (Appendix A.12).

#### **Commercial Salmon Harvests for the 2001 Season**

In 2001, industry price negotiations during June resulted in delayed and drastically reduced fishing effort in South Peninsula districts. The first South Peninsula commercial salmon landing occurred on June 13, and the last landing was recorded on September 24 (Appendix A.13). The 2001 South Peninsula commercial harvest was 5,475,194 salmon composed of 2,302 chinook, 606,680 sockeye, 209,146 coho, 3,782,287 pink, and 874,779 chum salmon. Most salmon were harvested in the Southeastern District (2,910,182 or 53.2%), while the South Central, Southwestern, and Unimak Districts accounted for 820,603 (15.0%), 1,675,273 (30.6%), and 69,136 (1.3%) respectively (Appendix A.14). During 2001 in the South Peninsula, purse seine permit holders harvested 80.1% of the total harvest while drift gillnet permit holders harvested 4.3% and set gillnet permit holders harvested 15.6% (Appendix A.15). The specific openings and closures, as directed by emergency order, are summarized in Appendix A.16.

## *South Unimak and Shumagin Islands June Fisheries*

### **Introduction**

The first documented commercial harvests from the South Unimak and Shumagin Islands June fisheries occurred in 1911 (Appendix B.1). Sockeye salmon bound for Bristol Bay were and continue to be the dominant stock harvested in these fisheries (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). From 1967 through 1971, the fisheries were open seven days per week regardless of the Bristol Bay sockeye salmon run strength. Special regulatory meetings were held annually resulting in different regulations every year from 1972 through 1974.

In 1975, the Alaska Board of Fisheries (BOF) implemented an allocation plan in which the South Unimak and Shumagin Islands June fisheries would be granted an annual guideline harvest level (GHL) based on the projected Bristol Bay inshore sockeye salmon harvest. Based on historical 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 June fishery. Portions of the GHL were assigned to discrete time periods so that the harvest would be spread throughout the month of June. Concerns over large chum salmon harvests in the early 1980s, and a weak fall Yukon River chum salmon run resulted in a chum salmon cap that, if reached, would close the fishery for the remainder of June. Since its inception in 1986, the chum salmon cap has been as high as 700,000 fish (1992-1997) and as low as 350,000 to 400,000 fish (1998-2000).

Since 1984, various opening date restrictions have been placed on the fishery. From 1984 through 1989 a limit was placed on the duration of fishing periods and the total number of days fished within a seven-day period. In 1990, several gear restrictions went into effect to further restrict harvest. Test fishing was used by the department from 1990 through 2000 at the Shumagin Islands and, from 1994 through 2000 at South Unimak, to determine sockeye to chum salmon ratios and to help manage for minimal chum salmon harvest.

The South Unimak and Shumagin Islands June fishery management plan in effect from 1998 through 2000 included a "floating" GHL for chum salmon that ranged from 350,000 to 650,000 fish. This GHL was determined annually, based on an Arctic-Yukon-Kuskokwim (AYK) summer chum salmon harvest projection that was calculated from the previous year's harvest of summer chum salmon in AYK. The AYK summer chum salmon index group includes chum salmon harvested during Yukon River summer commercial and subsistence fisheries, the Kotzebue, Norton Sound, and Kuskokwim commercial fisheries. Management concerns for specific chum salmon stocks in AYK were also a factor in determining the GHL.

This plan also included the possibility of commercial test fishing for all gear types as early as June 10. Seine and drift gillnet permit holders were initially allowed a six-hour fishing period while set gillnet permit holders were allowed a minimum of 16 hours. If the sockeye to chum salmon ratio was 2:1 or greater, fishing could have been extended for seine and drift gillnet permit holders. The set gillnet fishing period could be extended if the set gillnet sockeye to chum salmon ratio was equal to or greater than the most recent 10-year average, regardless of the seine and drift gillnet ratios.

## **2001 Management Plan**

In January of 2001, the BOF modified the South Unimak and Shumagin Islands June salmon fishery management plan. These modifications included the elimination of the sockeye salmon GHL and the chum salmon harvest cap (GHL). Fishing time was reduced to a maximum of 16 hours per day by any gear group. Fishing time by seine and drift gillnet gear was limited to a maximum of 48 hours in a floating seven day period with no more than two 16-hour periods on consecutive days in any seven day period.

From June 10 through June 24, set gillnet gear may fish on consecutive days for 16-hour fishing periods as long as the sockeye to chum salmon ratio in the set gillnet harvest fell below the recent 10-year average in each fishery. If the set gillnet sockeye to chum salmon ratio fell below the recent 10-year average in either of the fisheries, that fishery was closed for one period. From June 10 through June 24, daily fishing periods for set gillnet gear were from 6:00 AM until 10:00 PM. Purse seine and drift gillnet fishing periods through June 24 occurred at the same time in the South Unimak and Shumagin Islands fisheries.

After June 24, in either the South Unimak or Shumagin Islands fisheries, if the ratio of sockeye to chum salmon, by all gear combined, was 2:1 or less on any day, the next fishing period was six hours in duration for all gear in that fishery. If the ratio of sockeye to chum salmon was two to one or less for 2 consecutive fishing periods in either fishery, the season shall close for the remainder of June, for all gear groups. If the sockeye to chum salmon ratio was greater than two to one, a six-hour fishing period could be extended to a maximum of 16 hours.

For further details on 2001 regulations refer to the 2001-2004 regulation book (ADF&G 2001). For further details on historical harvests and allocations, see Appendices B.4 - B.10. For a more detailed regulatory history, see Appendix B.3.

## **2001 Season Summary**

The 2001 June fishery harvest and effort was much reduced due to industry price negotiations that remained unresolved throughout June. A commercial fishing period, for set gillnet gear only, was announced for June 10 and a fishing period for all legal gear was allowed on June 11. Initiation of fishing effort did not occur until June 13 when 4 purse seine deliveries were made to one processor. Price negotiations continued and the majority of the fleet did not fish in June.

The 2001, despite the establishment of open fishing periods almost daily in the South Unimak fishery (Appendix A.16), fishing effort and harvest were almost non-existent (Appendix B.12). A total of 105 permit holders of all three gear types combined, harvested 121,547 sockeye salmon and 36,099 chum salmon.

During the 2001 Shumagin Islands June fishery, 23 permit holders harvested 29,085 sockeye and 12,251 chum salmon (Appendix B.13). Only fourteen purse seine permit holders harvested 24,705 sockeye and 11,402 chum salmon (Appendix B.14), and nine set gillnet permit holders harvested 4,380 sockeye and 849 chum salmon (Appendix B.15).

Purse seine permit holders harvested 14.1% of the sockeye and 15.8% of the chum salmon at South Unimak, and 84.9% of the sockeye and 93.1% of the chum salmon in the Shumagin Islands Section (Appendix B.17 through B.20). Drift gillnet permit holders harvested 78.6% of the sockeye and 79.4% of the chum salmon at South Unimak (Appendix B.17 and B.18). Set gillnet permit holders harvested 7.3% of the sockeye and 4.8% of the chum salmon at South Unimak, and 15.1% of the sockeye and 6.9% of the chum salmon in the Shumagin Islands Section (Appendix B.17 through B.20).

The June fisheries overall sockeye to chum salmon harvest ratios were about 3.4:1.0 at South Unimak and 2.4:1.0 in the Shumagin Islands Section (Appendix B.21). The overall ratio for both fisheries combined, was about 3.1:1.0. In the South Unimak fishery, the sockeye to chum salmon ratio was 3.0 to 1.0 for purse seine, 3.3:1.0 for drift gillnet, and 5.1:1.0 for set gillnet permit holders (Appendix B.22). In the Shumagin Islands fishery, the sockeye to chum salmon ratio was 2.2 to 1.0 for purse seine, and 5.2:1.0 for set gillnet permit holders. In 2001, 25 purse seine, 85 drift gillnet, and 18 set gillnet permit holders fished commercially for salmon in the South Unimak and Shumagin Islands June fisheries (Appendix B.23).

The total 2001 South Unimak and Shumagin Islands combined June sockeye salmon harvest was 150,632 fish (Appendix B.1). The 2001 South Unimak and Shumagin Islands combined June chum salmon harvest was 48,350 fish. The 2001 harvest for both species was the lowest since 1974 when the fishery was closed for the entire season.

### *Southeastern District Mainland Fishery*

#### **Introduction**

The Southeastern District Mainland (SEDM) fishery takes place on the south side of the Alaska Peninsula, in Beaver, Balboa, and Stepovak Bays (Appendix C.1). Included in this fishery are the East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections. The BOF originally established the SEDM salmon management plan in 1985 and updated it in 1991, 1996, and 1998 (Appendix C.2; Campbell and Witteveen 1999). Fishery harvest averages that reflect the separate revisions of the management plan (i.e. 1985-91, 1992-95, 1996-97, and 1998-2000) are compared throughout Appendix C. Detailed historical harvest and allocation information is in Appendices C.3 through C.8. The original SEDM management plan was based on the Cape Igvak Salmon Management Plan in the Kodiak Management Area (KMA). The SEDM fishery is currently allocated 6% of the total sockeye salmon harvest considered to be bound for the Chignik River systems through July 25. The sockeye salmon considered to be bound for the Chignik River systems by regulation include 100% of the sockeye salmon caught in the Chignik Management Area (CMA) through July 25, 80% of the sockeye salmon caught in the Cape Igvak Section of the Kodiak Management Area (KMA) through July 25, and 80% of the sockeye salmon caught in the SEDM on the Alaska Peninsula through July 25 (excluding the Northwest Stepovak Section harvest beginning July 1; ADF&G. 2001).

## **Effort Levels**

Since 1978, set gillnet effort has increased in the SEDM fishery. The number of set gillnet permits fished through July 25 increased from 23 in 1978 to a high of 64 permits in 1993, 1996 and 2000 (Appendix C.5). Previously, many fishermen participated in both set gillnet and purse seine fishing, and received a limited entry permit for each gear type. During the late 1970s and 1980s, many of the multiple permit holders sold or transferred their set gillnet permit and retained their purse seine permit. This action increased effort in the SEDM fishery since many permits previously used part-time were now fished full-time. The number of SEDM set gillnet permits fished through July 25 averaged 59 from 1992-95, dropped to 45 during 1998 and increased to 64 in 2000 (Appendix C.5 and C.8). In 2001, 51 set gillnet permits were fished prior to July 25 in the SEDM, a 20 percent decline in effort from the previous year.

Purse seine effort through July 25 has also fluctuated dramatically since 1986, and ranged from zero in 1994 to a high of 69 in 1990. The number of purse seine permits fished in the SEDM, through July 25, averaged 21 from 1992-95, dropped to 16 in 1997, rebounded to 27 in 1999 and declined to 16 in 2001 (Appendix C.8).

## **2001 Management Plan**

Under the 2001 SEDM management plan:

- 1) Prior to July 1, the SEDM was 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) and 80% of the sockeye salmon caught will be considered Chignik bound. However, beginning July 1, all sockeye salmon caught in the Northwest Stepovak Section were considered 100% local fish and not counted toward the Chignik allocation. The Northwest Stepovak Section, outside Orzinski Bay, could open to commercial salmon fishing during July 1 through July 25 if the Orzinski Lake sockeye salmon escapement goals were being met, and the CMA sockeye salmon harvest was expected to be more than 600,000 through July 25. The BOF mandated fishing schedule for the Northwest Stepovak Section, excluding Orzinski Bay, from July 1 through July 25 would not exceed four days during a seven-day period. The maximum number of consecutive fishing days allowed was two.
- 2) Beginning July 1, Orzinski Bay was managed entirely on local stocks. The Stepovak Flats Section was to be managed for chum salmon returning to Stepovak Flats streams throughout the entire season. Eighty percent of the sockeye salmon caught in this section through July 25 were considered Chignik bound fish (Appendix C.1).
- 3) The BOF allocated 6% of the total Chignik bound sockeye salmon harvest through July 25 to the SEDM fishery. The BOF established this percentage during their January 1996 meeting 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 (the entire Northwest Stepovak Section) for local Orzinski Lake sockeye salmon.
- 4) The BOF directed the department to consider an extension of the Kupreanof Point closed waters area, as described in 5 AAC 09.350 (37), through October 31, by emergency order

(Appendix C.7). The Kupreanof Point closed waters extension remained in effect if the waters specified in 5 AAC 15.350(20) are closed to conserve coho salmon in the CMA.

The total Chignik sockeye salmon harvest through July 25 was calculated by adding 100% of the CMA sockeye salmon harvest, 80% of the Cape Igvak Section (KMA) and 80% of the SEDM sockeye salmon harvests through July 25, excluding 100% of the sockeye caught within the Northwest Stepovak Section from July 1 through July 25 (ADF&G, 2001).

There are two distinct sockeye salmon runs into the Chignik Lakes system, the Black Lake and the Chignik Lake runs. The Black and Chignik Lakes sockeye salmon runs overlap (transition period) during late June to early July (Pappas, 2001). During the transition period, the strength of the second run (Chignik Lake) cannot be adequately evaluated. In order to prevent overharvest of the second run during the transition, the Cape Igvak and SEDM fisheries (except the Northwest Stepovak Section beginning July 1) are usually closed. However, fishing could be allowed in the CMA to harvest excess first run (Black Lake) sockeye salmon, even though second run fish are present (Pappas 2001).

### **Local Stocks Fisheries**

***Northwest Stepovak Section.*** Prior to July 1, the entire SEDM, including the Northwest Stepovak Section, is managed on the basis of the strength of the Chignik Lakes sockeye salmon runs. The Northwest Stepovak Section is managed on the strength of the Orzinski Lake sockeye salmon run from July 1 through July 25. However, the strength of Chignik Lakes sockeye salmon runs must be considered when establishing fishing periods in the Northwest Stepovak Section through July 25. Beginning July 1, all sockeye salmon caught within the Northwest Stepovak Section are considered to be Orzinski Lake stock. Eighty percent of those sockeye salmon caught through July 25 in the remainder of the SEDM fishery are considered to be from the Chignik Lakes system's runs. After July 25, management of the area shifts to predominately local pink salmon; however, other local stocks (sockeye, chum, and coho salmon) may be considered when establishing fishing periods.

Orzinski Lake sockeye salmon escapements were assessed using a weir from 1935 through 1941 and most recently from 1990 through 2001 (Appendix E.2 and E.9). Orzinski Lake sockeye salmon escapement requirements were developed by time periods using historical aerial surveys and weir counts. The Orzinski Lake sockeye salmon escapement goal range is 15,000-20,000 adult fish. The escapement goal was first implemented during the 1991 season. From 1990 through 2000, the sockeye salmon escapement averaged about 27,000 (25,000 adults), and ranged from a high of 40,000 in 1991 to a low of about 15,000 in 1990 and 1999 (Appendix E.9). Since 1990, July 10 has been the average date when 50% of the total escapement of adult sockeye salmon has been achieved. In 2001, the Orzinski Lake weir was operated from June 5 through July 31 and 26,982 sockeye salmon were counted through the weir (Appendix E.5). An escapement of 4,218 additional sockeye salmon were estimated after the weir was pulled for the season. This produced a total estimated sockeye salmon escapement of 31,200 including 21,978 adult sockeye salmon counted during weir operations.

***Stepovak Flats Section.*** Commercial salmon fishing in the Stepovak Flats Section is managed on the basis of chum salmon returning to Stepovak Flats streams. However, 80% of the sockeye salmon harvested in this section through July 25 are considered bound for the Chignik Lakes

system, and are included in the 6.0% allocation criteria stated in the current SEDM salmon management plan (ADF&G, 2001). The entire Stepovak Flats Section is closed to salmon fishing by regulation beginning July 29 to protect schooling chum salmon, which are usually needed to achieve escapement requirements.

## **2001 Season Summary**

The 2001 preseason forecast for the total harvest of Chignik-bound sockeye salmon was 604,000 salmon for the first run (Black Lake) and 661,000 salmon for the second run (Chignik Lake; Pappas 2001). The forecast indicated that a fishery could occur in the SEDM targeting Chignik-bound sockeye salmon since a harvest of at least 600,000 sockeye salmon was expected in the CMA. Unresolved price negotiations between the commercial salmon fleet and local processors in both the CMA and the SEDM resulted in drastically reduced salmon harvests during June and July. This under exploitation of harvestable fish required the department to estimate foregone harvest in both areas to adhere to allocative guidelines for sockeye salmon considered to be Chignik bound by regulation. This foregone harvest estimation was based on Chignik Lakes system sockeye salmon escapement that was in excess to escapement goals. Based on CMA estimated foregone and actual harvest, the SEDM opened to commercial salmon fishing for 42 hours at 6:00 AM on June 24. Due to ongoing price negotiations, fishing effort was negligible during the June 24-25 fishing period (Appendix C.10). The estimated SEDM foregone sockeye salmon harvest considered Chignik bound through June 25 was 27,896 fish.

A total of 18 landings were made in the SEDM fishery prior to the termination of price negotiations. The majority of the fleet began fishing July 8 and harvested 106,607 sockeye salmon through July 25 in the entire SEDM, including the Northwest Stepovak Section (Appendix C.10).

Fishing effort outside the Northwest Stepovak Section, resulted in a harvest of sockeye salmon, 80% of which were considered Chignik bound, during two 48-hour periods beginning July 8 and 12. During 2001, the estimated Chignik component of the actual SEDM harvest was 51,141 sockeye salmon (Appendix C.4). An additional 27,896 sockeye salmon were estimated as foregone harvest in the SEDM during the price negotiations. The total estimated Chignik component of the SEDM harvest (including foregone harvest) was 79,037 sockeye salmon which is 5.5% of the total CMA-bound sockeye salmon harvest through July 25 (Appendix C.4 and C.6). The 2001 Northwest Stepovak Section sockeye salmon harvest through July 25 was 42,681 fish (Appendix C.9), all harvested in July and considered local by regulation, with 8,496 harvested in Orzinski Bay.

The 2001 SEDM annual salmon harvest (entire season) was 334 chinook, 272,011 sockeye, 30,130 coho, 980,728 pink, and 188,857 chum salmon (Appendix C.10). Purse seine permit holders harvested 174 chinook, 21,514 sockeye, 6,365 coho, 793,290 pink, and 86,278 chum salmon (Appendix C.11). Set gillnet permit holders harvested 160 chinook, 250,497 sockeye, 23,765 coho, 187,438 pink, and 102,579 chum salmon (Appendix C.12). The purse seine harvest accounted for 7.9%, and set gillnet 92.1% of the 2001 SEDM sockeye salmon harvest (Appendix C.13).

## *South Peninsula Post-June Fisheries*

### **Introduction**

The South Peninsula post-June salmon fishery takes place in the Southeastern (excluding the Southeastern District Mainland through July 25), South Central, Southwestern, and Unimak Districts from July 1 through the end of the season (Appendix D.1).

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

In November 1991, the BOF established the Post-June Salmon Management Plan for the South Alaska Peninsula (5 AAC 09.366; McCullough 1995). 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 harvests and escapements. The balance of the South Peninsula, which during previous seasons opened in post-June fisheries, would remain closed (Appendix D.2). The BOF decided that local pink and chum salmon could be caught in terminal areas early in the season, without sacrificing product quality, while still allowing migratory salmon to pass through South Peninsula waters. The terminal areas included Zachary Bay, the northern portion of Pavlof Bay, and the Cold Bay, Thin Point, Canoe Bay, and Morzhovoi Bay Sections (Appendix D.3). The BOF concluded that after July 19, South Peninsula fishermen needed to harvest pink salmon in their traditional cape fishing areas to maintain product quality. From July 20 until the close of the 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 South 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, management of the post-June fisheries reverted back to pre 1992 regulations (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. That version of the Post-June Salmon Management Plan was fully implemented during the 1993 through 1997 commercial fishing seasons (Shaul and Campbell, 1997). The Post-June Salmon Management Plan was revised in January 1998.

### **2001 Management Plan**

During their January 1998 meeting, the BOF made the following changes affecting the Post-June Salmon Management Plan:

1. For the period from July 6 through 21: six 24-hour fishing periods could be permitted, each fishing period must be followed by a closure of at least 48-hours in non-terminal locations outside of the Southeastern District Mainland (Appendix D.5). The terminal areas for July 6 through 21 included the northern portion of Pavlof Bay (north of the latitude of Black Point), the southern portion of Zachary Bay (282-35), and the Cold Bay, Morzhovoi Bay, Thin Point, and Canoe Bay Sections.
2. For the period from July 22 through 31: fishing time was limited in non-terminal areas, outside of the Southeastern District Mainland (prior to July 26), to three periods not to exceed 36 hours in duration and interspersed by closures of at least 48 hours. The terminal areas during the July 22 through 31 time period included the northern portion of Pavlof Bay (north of the latitude of Black Point), the southern portion of Zachary Bay (282-35), the Cold Bay, Morzhovoi Bay, Thin Point, Canoe Bay, Deer Island, Belkofski Bay, and Mino Creek-Little Coal Bay Sections, the Stepovak Flats Section from July 26 through 28, and the area near Suzy Creek (281-65) after July 25. The amount of fishing area considered "terminal" was increased during this period. Fishing in non-terminal areas could not begin before noon on July 23 (during this period) (Appendix D.6).
3. A 60,000 coho salmon harvest cap was established for non-terminal areas during July 22 through 31.

The BOF made only minor changes to the Post-June Salmon Management Plan for the South Alaska Peninsula during the January 2001 meeting. The BOF clarified the definition of immature salmon during the early July department conducted immature test fishery. For the purposes of the test fishery, immature salmon were defined as those chinook, sockeye, coho and chum salmon that were gilled in the seine web during the test fishery. Also changed was the southern boundary of the Suzy Creek terminal harvest area. It was modified to be consistent with the southern boundary of the NWSS at 57°37.33' N lat.

For this section of the report, non-conventional periods are used to average harvest figures. The authors feel these dates better represent the historical nature of the South Peninsula post-June fisheries. The 1978 through 1992, 1993 through 1997, and 1998 through 2000 periods are used for most historical average harvests, and are compared to the 2001 harvests. The 1978-92 average harvests represent catches after Alaska salmon populations had recovered from low runs during the 1960s and early 1970s. The 1993-97 averages are used because during those years only a few terminal harvest areas were open in post-June fisheries from July 1-19. The current management plan went into effect in 1998 and was used in 1998 through 2001.

## **Immature Salmon Concerns**

The 1991 BOF decision to allow commercial salmon fishing only in limited areas within South Peninsula waters was made partially due to concerns for immature chinook, sockeye, and chum salmon which are inadvertently gilled in normal purse seine gear fishing operations (McCullough and Shaul 1992).

The department first became aware of immature salmon catches in 1963. The presence of immature salmon in South Peninsula waters has warranted restrictions to commercial fishing in some years. These restrictions were 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 1999 seasons (Witteveen, et al. 2001a).

Immature salmon have been most prevalent in the Shumagin Islands Section where 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 2001). Set gillnet gear has larger mesh size (minimum of 5-1/4 inches) which allows immature salmon to pass through. 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, an ADF&G 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 those areas (Appendix D.4).

## **2001 Season Summary**

During their January 1998 meeting, the BOF changed the earliest general opening date of the post-June fishery in non-terminal areas from July 20 to July 6. Therefore, in 1998 through 2001, the ADF&G test fish program in the Shumagin Islands, to assess the presence of immature salmon, was conducted in early, instead of mid, July as had been done prior to 1998.

The test fishing results on July 4 and 5 indicated that the abundance of immature salmon (Appendix D.7) was slightly below the BOF mandated threshold of 100 per set that would have necessitated a restriction in fishing (ADF&G 2001). The South Peninsula fishery was opened on July 6 with no restrictions but fishing effort was absent due to continuing industry price negotiations. Test fishing continued on July 7 and 8 with immature salmon abundance exceeding the regulatory threshold. The department closed the Shumagin Islands Section to purse seine gear during the commercial fishing period beginning July 8 due to the high number of immature salmon observed in the test fishery. As indicated by July 10-16 test fishery results, immature salmon remained in the Shumagin Islands at abundance exceeding the regulatory threshold until July 16. Seine vessels were permitted to fish in the Shumagin Islands on July 17.

In accordance with the current Post-June Salmon Management Plan for the South Alaska Peninsula (Witteveen et al. 2001b) and exclusive of the SEDM fishery, most of the South Peninsula opened to

commercial salmon fishing on July 6 for 21 hours, from 12:01 AM until 9:00 PM. The five subsequent fishing periods in non-terminal areas through July 21 were for 24 hours each from 9:00 PM until 9:00 PM. The July 6 through July 21 commercial salmon harvest from non-terminal areas was composed of 520 chinook, 86,599 sockeye, 67,192 coho, 213,551 pink, and 76,302 chum salmon (Appendix D.8). The 2001 South Peninsula July 6-21 salmon harvest from terminal areas was composed of 0 chinook, 322 sockeye, 34 coho, 41,189 pink, and 54,491 chum salmon (Appendix D.8).

From July 22-31, commercial salmon fishing in the South Peninsula, outside “terminal areas” and outside the SEDM from July 22 through July 25, may be allowed for a maximum of three 36-hour fishing periods interspersed by 48-hour closures. In addition, a 60,000 coho salmon harvest cap was in effect from July 22 through July 31 in the entire South Peninsula except for those areas designated as terminal harvest locations and the SEDM through July 25.

Historically, large numbers of coho salmon have been caught during late July in South Peninsula fisheries. Due to the high coho salmon harvest on June 21, 2001, the department anticipated the 60,000 coho salmon cap could be surpassed in a 36-hour fishing period. Therefore the first fishing period under the cap, on July 23, was set at only 24 hours. During this period, 53,868 coho salmon were caught in the non-terminal areas of the South Peninsula (Appendix D.9). Most of these were caught in the Shumagin Islands. The department anticipated that coho salmon catches in non-terminal areas during the subsequent fishing period would stay under the 60,000 coho salmon cap if the Shumagin Islands remained closed and fishing time was reduced. Fishing time was restricted to a 24-hour period on July 26-27 in non-terminal areas outside of the Shumagin Island Section. This fishing period resulted in 3,735 coho salmon in the harvest, which brought the cumulative coho salmon catch during the July 22-31 period to 57,603 coho salmon. Due to the lower harvest rate of coho salmon in the second opening, a third short opening (only 8 hours) was allowed in non-terminal areas outside of the Shumagin Island Section on July 30. The coho salmon harvest during this opening was 2,476 fish bringing the cumulative harvest in non-terminal areas since July 22 to 60,079 coho salmon.

The entire South Peninsula (including the SEDM catches from July 26-31) non-terminal harvest during July 22-31 included 339 chinook, 39,473 sockeye, 60,079 coho, 457,218 pink, and 78,141 chum salmon (Appendix D.9). The South Peninsula (including the SEDM terminal areas after July 25) terminal area harvest during July 22-31 included 13 chinook, 8,812 sockeye, 284 coho, 274,893 pink, and 70,184 chum salmon (Appendix D.9).

During August 2001, pink and chum salmon runs on the South Peninsula were generally strong and there was relatively little harvest effort and weak markets. Total harvest during August included 892 chinook, 116,518 sockeye, 62,924 coho, 2,712,141 pink, and 494,206 chum salmon (Appendix D.10).

Historically, the South Peninsula fall fishery opens September 1 and commercial salmon fishing periods are primarily based on local coho salmon catch per unit effort (CPUE) and in some areas on late chum salmon runs. From 1991 through 2000, the South Peninsula fall fishery harvest averaged 114,026 salmon composed of 20 chinook, 49,896 sockeye, 26,174 coho, 2,588 pink, and 35,348 chum salmon (Appendix D.11 and A.13). In 2001, the weak salmon markets resulted in no effort in the fall fishery outside of the Southeastern District. The salmon harvest for September in the

Southeastern District included 16 chinook, 97,717 sockeye, 17,317 coho, 1,824 pink, and 2,894 chum salmon with the last delivery of the season occurring on September 24.

The 2001 South Peninsula (minus the SEDM July 1-25 harvest) post-June (July 1-September 24) commercial salmon harvest was composed of 1,780 chinook, 349,441 sockeye, 207,830 coho, 3,700,816 pink, and 776,218 chum salmon (Appendix D.12).

### **Commercial Salmon Effort Levels and Harvests, July 1-October 31**

Most South Peninsula post-June fishing periods are based on local pink and chum salmon run strengths. However, fishing time in the SEDM (after July 25), Thin Point Cove, Morzhovoi Bay, and during the fall fisheries are also determined by the strength of local sockeye and coho salmon runs.

The number of CFEC permits fished in South Peninsula waters (including the SEDM) during the period from July 1-October 31 more than doubled between 1978 (123 permits) and 1989 (274 permits; Appendix D.13). However, the number of permit holders who fished declined steadily from the peak year of 1989 (274) to a low in 1997 (168) with a slight rebound in 1998 (209) followed by a declining trend. In 2001, 177 CFEC permits were fished between July 1-October 31.

Since 1992, the South Peninsula, including the SEDM, post-June average harvests of sockeye have increased, while the chinook, coho, pink, and chum salmon average harvests have generally decreased (Appendix D.14). The South Peninsula post-June total salmon harvest declined dramatically in 1996. All harvests except sockeye salmon (due to a large catch in the SEDM) declined even further in 1997, rebounded in 1998 and 1999, and declined slightly in 2000. The 2001 South Peninsula post-June (July 1-end of season; including SEDM July 1-25) total harvest was 5,234,231 salmon and was composed of 1,957 chinook, 453,736 sockeye, 209,144 coho, 3,743,036 pink, and 826,358 chum salmon (Appendix D.14).

**Chinook.** The 2001 South Peninsula post-June chinook salmon harvest of 1,957 fish was less than the 1978-92 of 4,004 salmon, and comparable to the 1993-97, and 1998-2000 respective average harvests of 2,316, and 1,965 salmon (Appendix D.15). The largest reported chinook salmon harvest of 12,833 occurred in 1983.

**Sockeye.** The 2001 South Peninsula post-June sockeye salmon harvest of 453,736 fish was below the 1978-92 average harvest of 521,634 fish, the 1993-97 average harvest of 605,449 fish, and the 1998-2000 average harvest of 979,882 fish (Appendix D.16).

**Coho.** In the South Peninsula, coho salmon is the only species which has pre statehood post-June harvest records available (Appendix D.14). Historically, South Peninsula coho salmon catches have demonstrated long periods of varying abundance. From 1923 through 1946, coho salmon catches fluctuated but maintained a relatively high level. From 1947 through 1958, the average was about one third of the 1923-46 harvest level. The 1959-77 harvests were very low, with only 66 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 258,340 fish from 1981-2000 (Appendix D.17). The largest reported coho salmon catch was 505,278 in 1988.

The 2001 South Peninsula post-June coho salmon harvest of 209,144 fish was below the 1978-92 and 1993-97 average harvests of 277,093 and 219,609 fish, but slightly above the 1998-2000 average harvest of 201,005 fish (Appendix D.17).

**Pink.** Pink salmon are the most abundant salmon species produced in South Peninsula streams (Murphy 1992, McCullough 1995). The 2001 South Peninsula post-June pink salmon harvest of 3,743,036 fish was below the respective 1978-92, 1993-97, and 1998-2000 average harvests of 5,728,901, 7,224,956, and 6,389,536 fish (Appendix D.18).

During 1996-2001, very low prices and smaller than expected pink salmon runs led to reduced fishing effort and a drastic reduction of pink and chum salmon harvests. The 2001 post-June pink salmon harvest of 3,743,036 fish was below the 6,000,000 fish harvest projection. Low prices and limited markets continued to restrict pink salmon harvests. Future pink and chum 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, McCullough 1995). The 2001 South Peninsula post-June chum salmon harvest of 826,358 fish was below the 1978-92 average harvest of 919,953 salmon, but above the respective 1993-97 and 1998-2000 average harvests of 795,129 and 615,938 salmon (Appendix D.19). The largest reported chum salmon harvest of 1,593,590 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. During 2001, low prices and limited markets continued to result in under utilization of chum salmon runs.

### ***Shumagin Islands Section 2001 Post-June Harvest Summary***

A weak market and continuing price dispute resulted in limited fishing effort and harvest in 2001, especially in early July. The 2001 Shumagin Islands Section post-June (July 1-September 24) total salmon harvest of 1,385,988 was composed of 1,592 chinook, 100,451 sockeye, 144,572 coho, 1,009,398 pink, and 129,975 chum salmon (Appendix D.20). The 2001 Shumagin Islands post-June chinook salmon harvest of 1,592 fish was similar to the 1993-97 average harvest of 1,502 fish and the 1998-2000 average harvest of 1,618 fish. The 2001 Shumagin Island post-June sockeye salmon catch of 100,451 fish was well below the 1993-97 and 1998-2000 respective average harvests of 168,951 and 455,687 fish. The post-June coho salmon harvest was slightly above the 1993-97 and 1998-2000 respective average harvests of 136,035 and 134,215 fish. The 2001 Shumagin Islands post-June pink salmon catch was below the 1993-97 and 1998-2000 average respective harvests of 2,133,313 and 2,115,967 fish). The 2001 post-June chum salmon harvest was below both the 1993-97 average respective harvests of 166,888 and 212,476 fish.

From the mid-1970s through 1989, effort levels and the number of landings increased for all gear types in the Shumagin Islands Section post-June fishery and generally have declined since (Appendix D.20). Both effort levels and the number of landings declined during the 1996 and 1997 seasons, but rebounded slightly during 1998 through 2000. Effort levels averaged 105 permits from 1993 through 1997, and 104 permits from 1998 through 2000. During the 2001 season, only 85 permit holders participated in the Shumagin Islands Section post-June fishery.

### ***Southeastern District 2001 Post-June Harvest Summary***

The Southeastern District (minus the SEDM July 1-25) post-June harvests from 1978–92 averaged 3,173 chinook, 309,200 sockeye, 218,147 coho, 2,656,108 pink, and 427,796 chum salmon (Appendix D.21). The 1993 through 1997 harvests averaged 1,814 chinook, 298,438 sockeye, 170,147 coho, 3,179,405 pink, and 246,479 chum salmon. Much of the increased harvest was the result of a record harvest of almost 7,400,000 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 pink salmon runs increased during 1998 and 1999, but decreased in 2000. The 2001 Southeastern District (minus the SEDM July 1-25) post-June salmon harvest was 2,660,667 salmon and was composed of 1,749 chinook, 268,342 sockeye, 174,037 coho, 1,947,906 pink, and 268,633 chum salmon.

The 2001 Southeastern District fall fishery opened on September 1, and the last landing was recorded on September 24. The 2001 Southeastern District fall fishery harvest was 16 chinook, 97,717 sockeye, 17,317 coho, 1,824 pink, and 2,894 chum salmon. Chinook, pink, and chum salmon harvests were below the most recent 10-year (1991-2000) average (Appendix D.22). Sockeye salmon harvest was almost double the recent 10-year average and coho salmon harvest was about average.

### ***South Central, Southwestern, and Unimak Districts 2001 Post-June Harvest Summary***

The 2001 South Central, Southwestern, and Unimak Districts combined post-June harvest of 2,375,418 salmon was composed of 31 chinook, 81,099 sockeye, 33,793 coho, 1,752,910 pink, and 507,585 chum salmon (Appendix D.23). The 2001 chinook, sockeye, coho, and pink salmon harvests were below the most recent 10-year (1991-2000) average while the 2001 chum salmon harvest was above the most recent 10-year average. The last delivery in the South Central, Southwestern, and Unimak Districts was from Volcano Bay on August 30. An overall weak to non-existent market and declining fish quality resulted in declining harvest effort in August. Beginning September 1, the fall fishing season began in the South Central, Southwestern, and Unimak Districts, but there was no fishing effort due to the lack of a market (Appendix D.24).

## ***Salmon Escapements***

### **Introduction**

There are approximately 224 salmon spawning systems in the South Peninsula area, with sockeye salmon found in 37, pink salmon in at least 204, and chum salmon in 136; coho salmon have been documented in 81 stream systems (McCullough 2001). Most salmon escapements are monitored by aerial observations using small fixed-wing aircraft. The coho salmon escapement count is incomplete because budget restrictions and adverse weather conditions limit late season aerial survey opportunities. The Orzinski Lake system is monitored with a fish weir operated by ADF&G employees; foot surveys may also be conducted in certain areas. Salmon escapements, except for the sockeye salmon systems of Orzinski Lake, Thin Point Lake, Mortensen's Lagoon, and Middle

Lagoon (where Estimated Total Escapement are used) are estimated using an indexed total escapement method (Appendix E.1).

Alaska salmon production was low during the 1960s and early 1970s. The Alaska salmon runs began to rebuild in the mid-1970s and most Alaska Peninsula salmon escapements recovered by 1977. Therefore, the 1962-76 and 1977-2000 time periods will be used for comparison of 2001 escapements with the past to better represent average historical escapements. 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 E.3). From 1977 through 2000, the South Peninsula total indexed salmon escapement averaged 3,633,317 salmon composed of 75,807 sockeye, 2,952,806 pink, and 538,666 chum salmon. There are no chinook salmon spawning streams along the South Peninsula waters and coho salmon escapement data is not collected annually for most of the area.

It is beyond the scope of this report to publish detailed escapement goals for each species and the methodology for their development. Additional information on escapement goals, including the escapements by stream or district used in the discussion to follow can be found in a separate report (Nelson and Denby 2001).

### **Escapement by Species**

**Sockeye.** The 2001 South Peninsula estimated total sockeye salmon escapement of 161,630 fish was the highest on record (Appendix E.3 and E.4), (since 1962) and well above the escapement goal range of 62,250 to 115,200 fish.

In 2001, ADF&G personnel operated a fish weir at Orzinski Lake to enumerate salmon escapements. Orzinski Lake is located in the Southeastern District and had an adult sockeye salmon escapement of 24,000 fish (based on weir and aerial counts) (Appendix E.5), which exceeded the upper end of the 15,000 to 20,000 escapement goal range. Thin Point Lake in the Southwestern District had an estimated sockeye salmon escapement of 47,900 fish, based on aerial counts, which was well above the upper end of the 14,000 to 28,000 escapement goal range. Middle Lagoon, also located in the Southwestern District, had an estimated sockeye salmon escapement of 45,600 fish (based on aerial counts), which was well above the 16,000 to 32,000 fish escapement range.

United States Fish and Wildlife Service installed and operated a weir at Mortensen's Lagoon for the first time in 2001. The weir was operated from July 1 through October 26 and counted a total of 4,266 sockeye salmon and 5,279 coho salmon (Appendix E.10). Just after installation, some salmon were observed getting over the weir and some of the earlier daily counts were probably incomplete. Estimated total sockeye escapement, based on aerial survey data for Mortensen's Creek, was 9,100 fish.

**Coho.** The 2001 South Peninsula coho salmon indexed escapement was not calculated due to limited survey data. A total of 82,000 coho salmon were counted in 50 streams on the South Peninsula in 2001. However many streams were not surveyed, only surveyed once, or were not surveyed during peak abundance. During 1994 through 2001, Thin Point Lake was the only major coho producing area consistently surveyed for coho salmon. The highest coho aerial survey count

occurred in 2001 with a count of 28,000 salmon (Appendix F.1) which was well above the escapement goal range of 3,000 to 6,000 salmon.

**Pink.** The 2001 South Peninsula total indexed pink salmon escapement of 2,965,120 was slightly higher than the 2000 escapement and within the odd year escapement goal range of 1,637,800 to 3,275,700 fish (Appendix E.3 and E.6). From 1981 through 2000, the pink salmon indexed escapement ranged from 851,200 in 1983 to 6,406,300 in 1995 (Appendix E.3). From 1991 through 2000, the South Peninsula total pink salmon indexed escapement averaged 3,961,624 fish (Appendix E.3).

**Chum.** The 2001 South Peninsula total indexed chum salmon escapement of 751,221 fish was the highest since 1997 and was above the escapement goal range of 335,400 to 670,800 fish (Appendix E.3 and E.7). From 1981 through 2000, the chum salmon indexed escapement ranged from 310,500 fish in 1989 to 809,050 fish in 1997 (Appendix E.3). From 1991 through 2000, the chum salmon indexed escapement averaged 603,429 fish (Appendix E.3).

### **Escapement by District**

The 2001 Southeastern District indexed total escapement was composed of 33,700 sockeye, 847,120 pink, and 318,300 chum salmon (Appendix E.8; coho salmon data are not available). The pink salmon escapement was within the escapement goal range of 562,600 to 1,125,300 fish for the Southeastern District streams. The chum salmon escapement was well above the escapement goal range of 111,200 to 222,400 fish for Southeastern District streams. The sockeye escapement was above the upper goal for the Southeastern District streams of 23,200 fish.

The 2001 South Central District indexed escapement was 5,320 sockeye, 1,193,000 pink, and 155,500 chum salmon (Appendix E.8). Sockeye and pink salmon escapements were within respective escapement goal ranges of 3,600 to 7,200 fish sockeye salmon, and 687,200 to 1,374,400 fish (odd year) pink salmon. Chum salmon escapement was also within the escapement goal range of 89,800 to 179,600 fish. The department has not established indexed escapement goals for coho salmon in the South Central District.

The 2001 Southwestern District indexed escapement was 116,650 sockeye, 919,116 pink, and 277,021 chum salmon (Appendix E.8). Pink salmon escapement exceeded its upper escapement goal of 756,000 fish. The sockeye salmon escapement was well above the upper goal of 73,200 fish. The chum salmon escapement was just above the upper goal of 266,800 fish. The department has not established indexed escapement goals for coho salmon in the Southwestern District.

The 2001 Unimak District indexed escapement of 5,960 sockeye salmon which was within the escapement goal range of 4,800 to 9,600 fish (Appendix E.8). Pink and chum salmon escapements were 5,900 and 400 fish respectively and were below the goal ranges of 10,000 to 20,000 fish (pink salmon) and 800 to 1,600 fish (chum salmon). The department has not established indexed escapement goals for coho salmon in the Unimak District.

A separate report summarizes the Alaska Peninsula Management Area escapement and catch-sampling program, which annually samples salmon catch and escapement for biological characteristics (age, length, and sex: Bouwens et al. *in press*). Also, annual salmon management

plans provide overviews of the South Alaska Peninsula (Shaul, et al. 2001; Witteveen et al. 2001b; Witteveen and Connolly, 2001), Aleutian Islands and Atka-Amlia Management Areas (Shaul 2001), and the North Alaska Peninsula (Murphy and Shaul, 2001) commercial, subsistence, and personal use salmon fisheries.

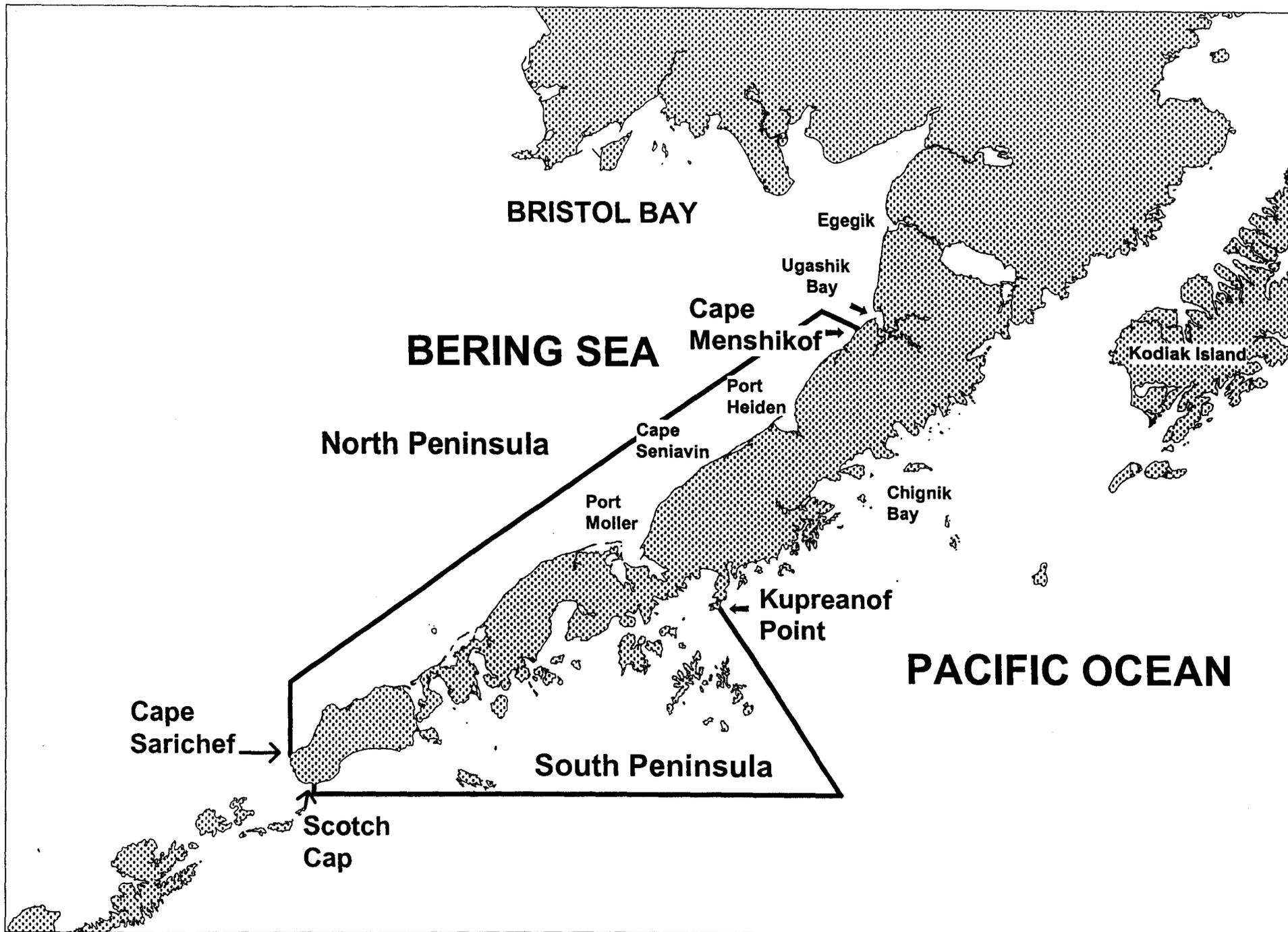
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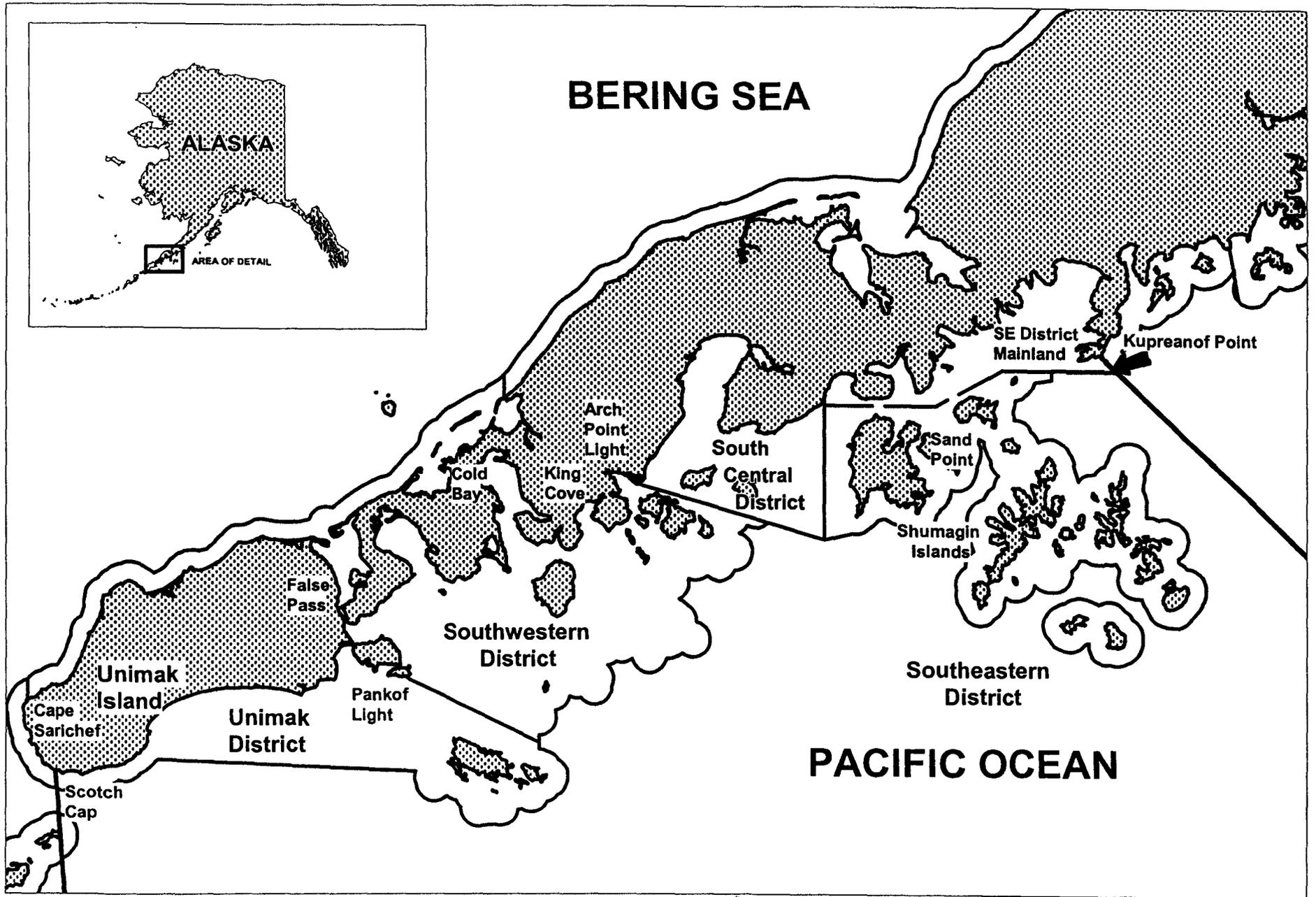
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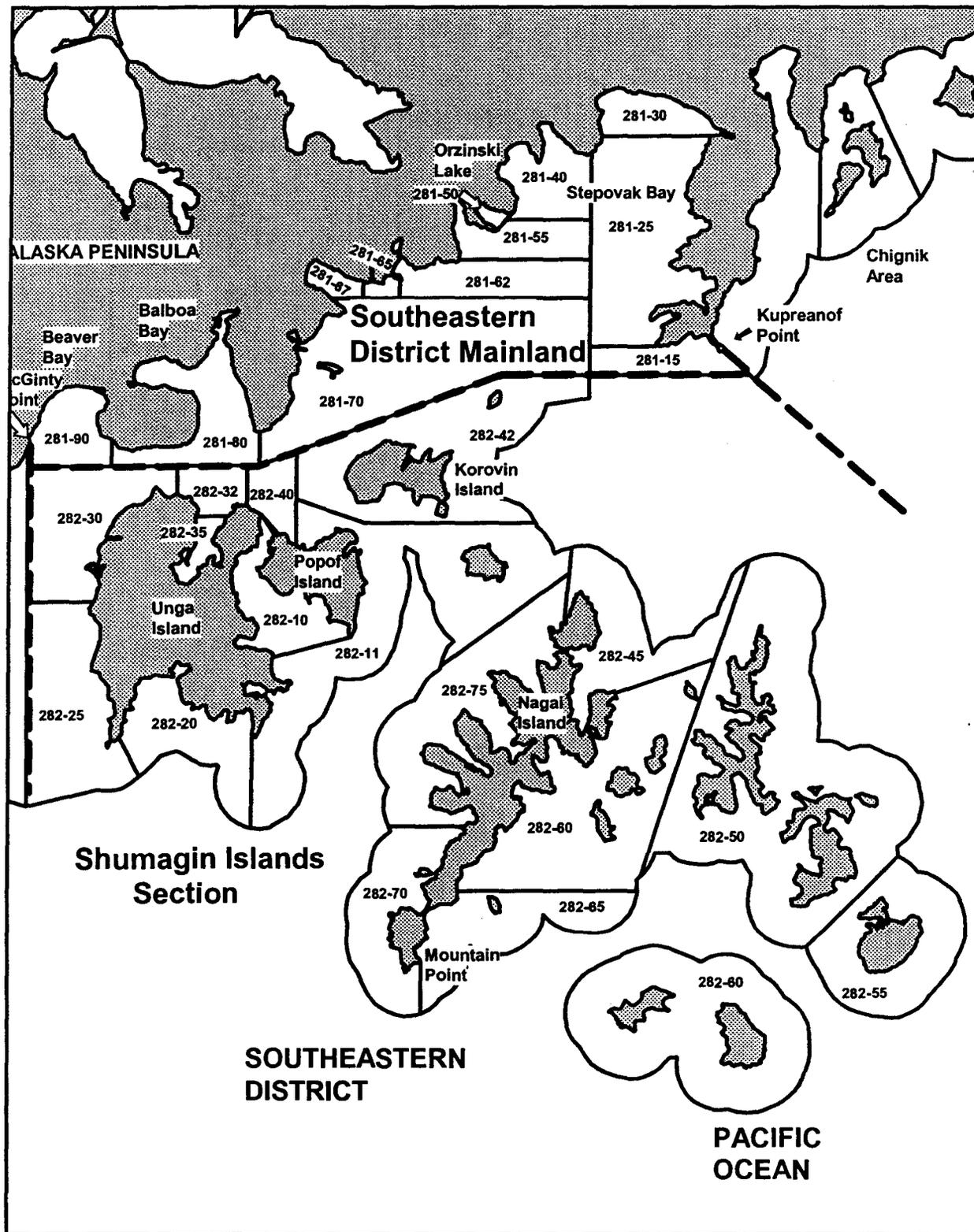
**APPENDIX**



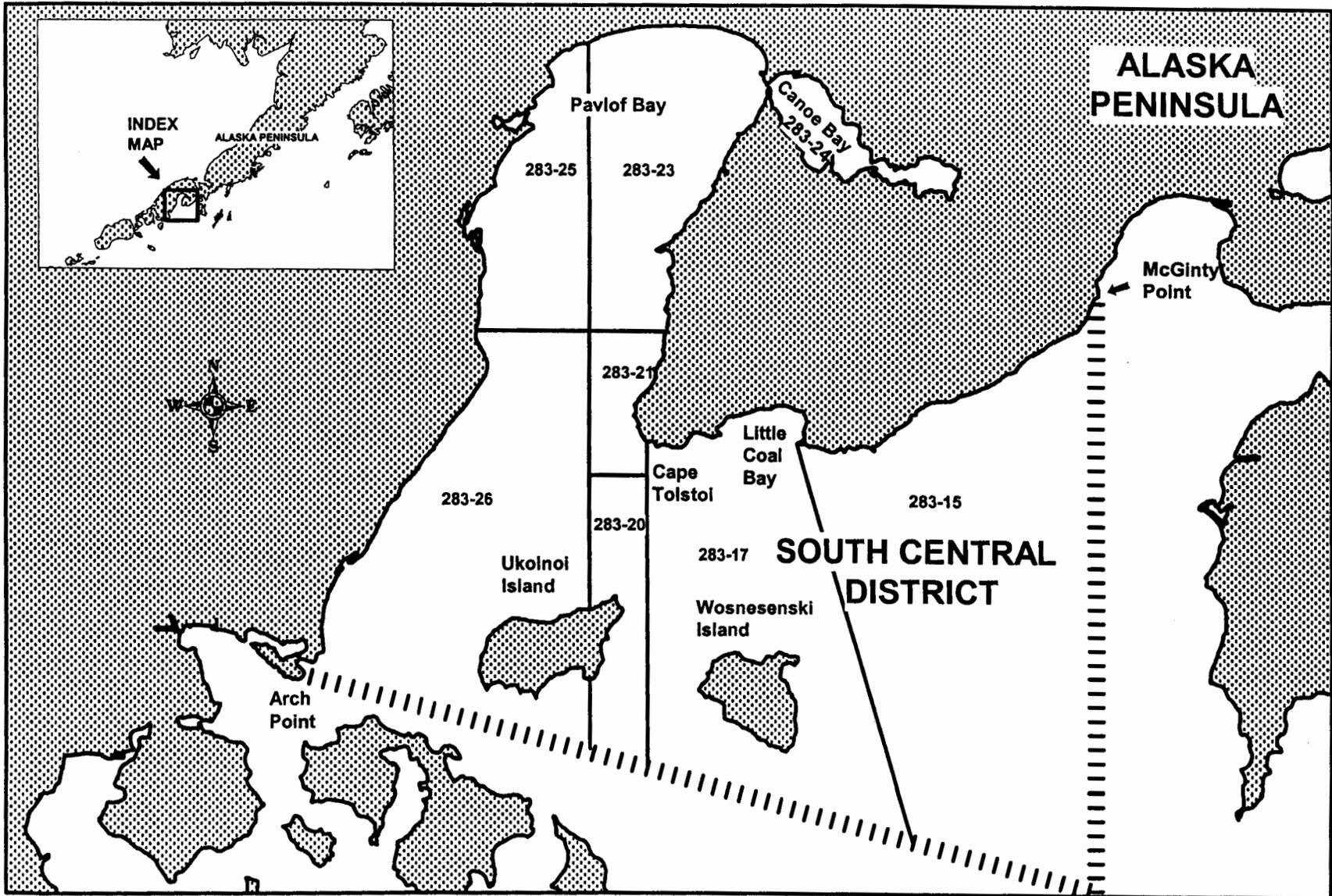
Appendix A.1. Map of the Alaska Peninsula Management Area, with the North and South Peninsula defined.



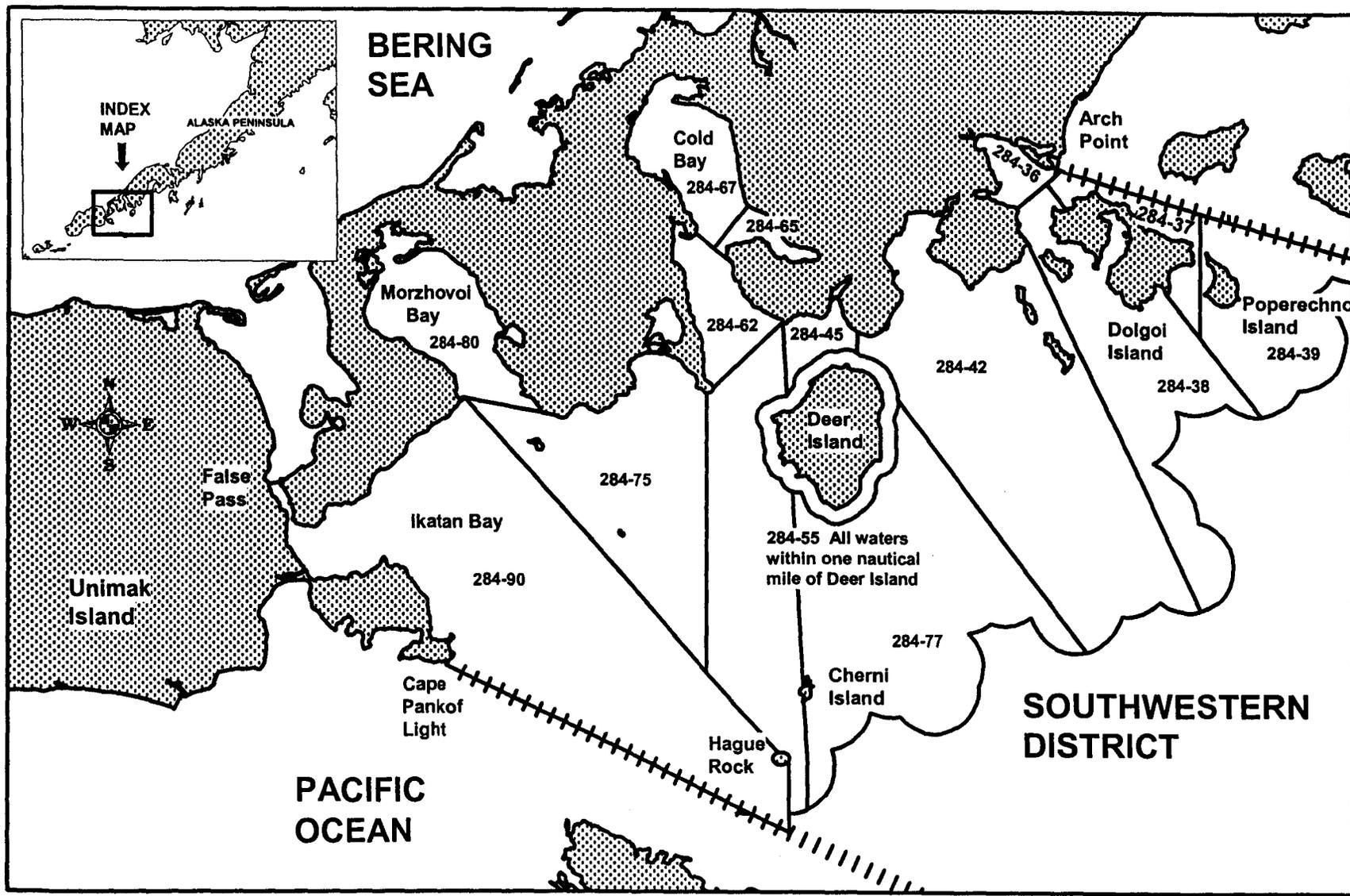
Appendix A.2. Map of the Alaska Peninsula Management Area from Kupreanof Point to Scotch Cap with the South Peninsula salmon fishing districts defined.



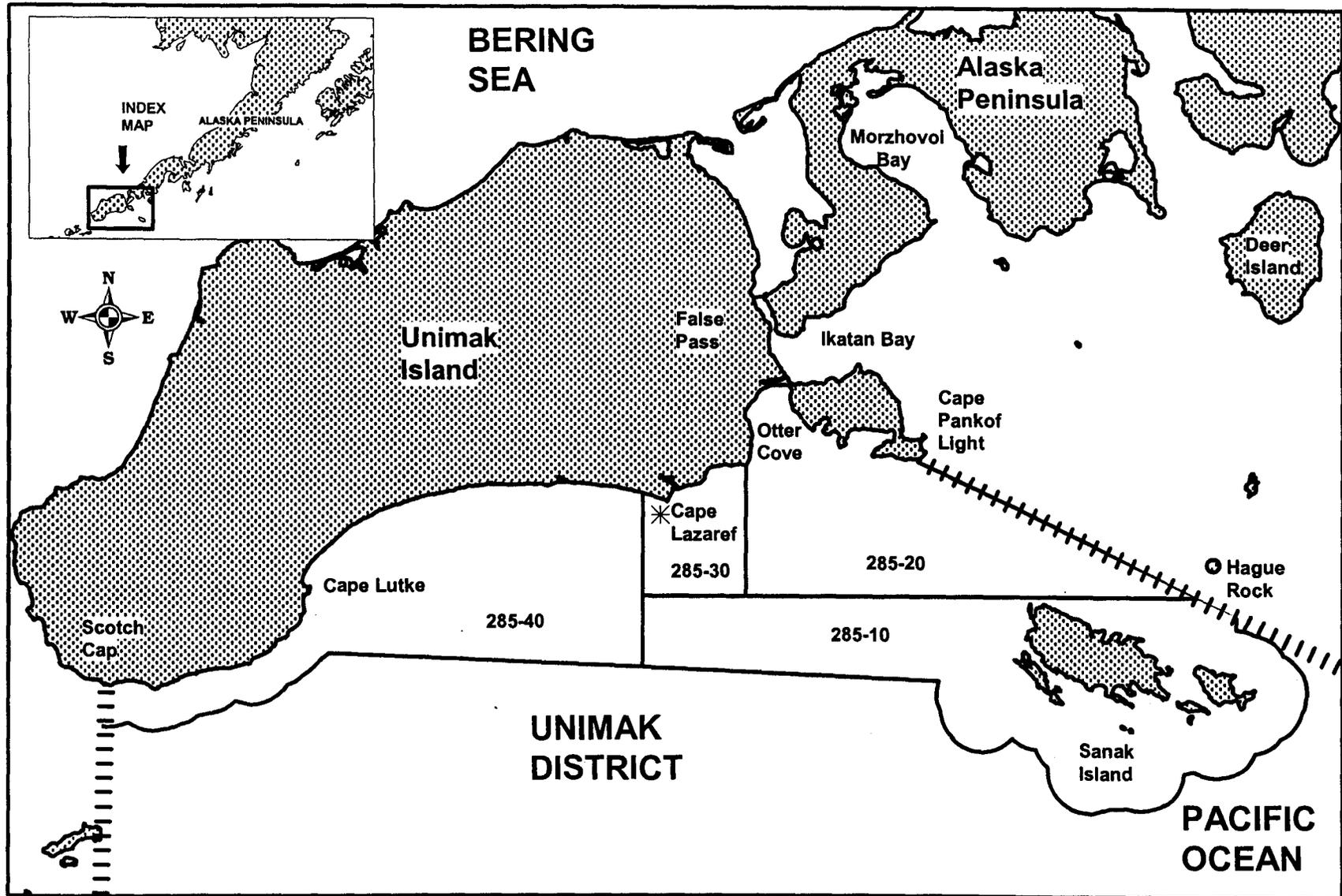
Appendix A.3. Map of the Alaska Peninsula Area from Kupreanof Point to McGinty Point (Southeastern District) with the statistical salmon fishing areas shown.



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.

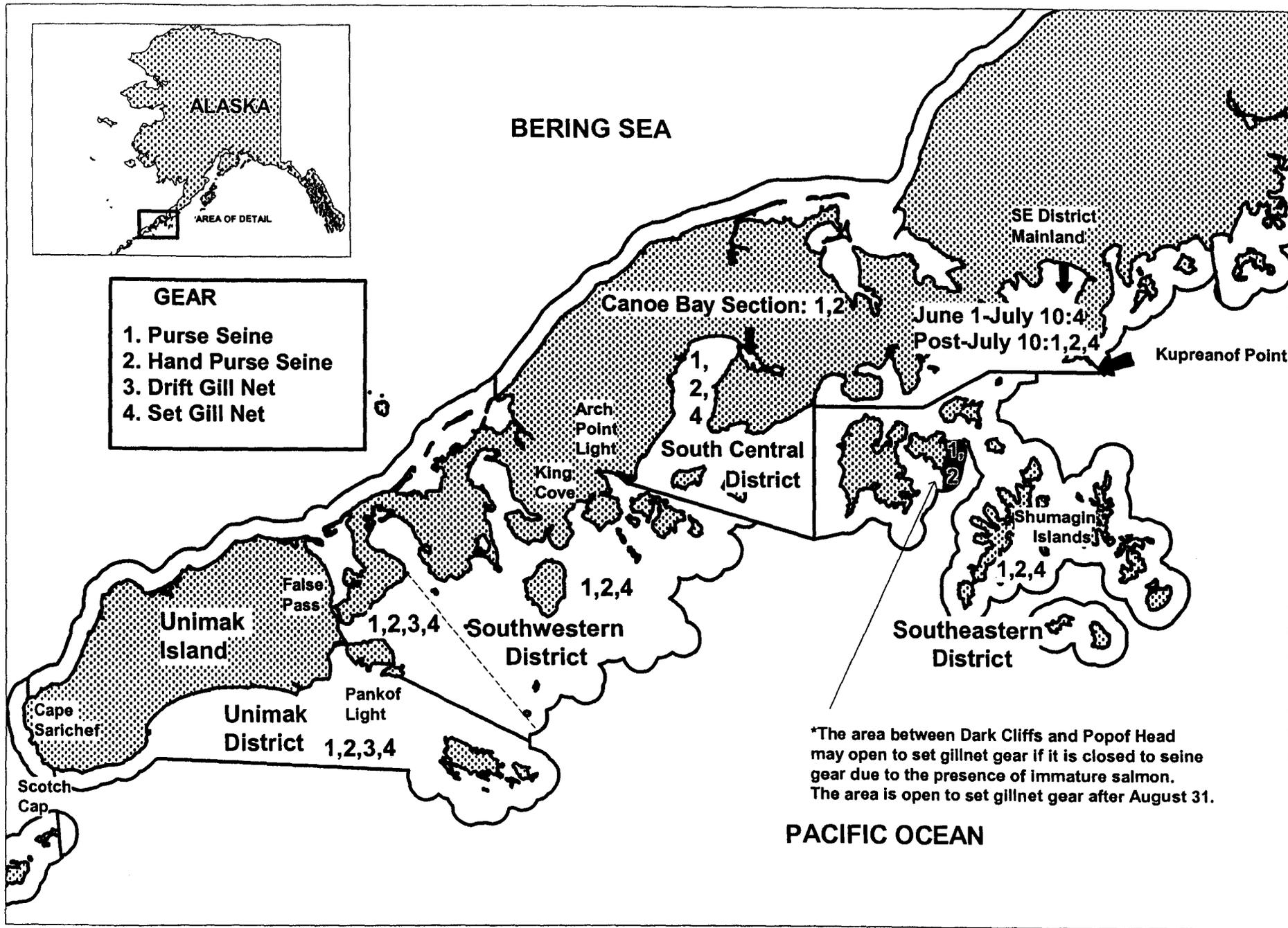


Appendix A.6. Map of the Alaska Peninsula Area from Hague Rock to Unimak Pass (Unimak District) with the statistical salmon fishing areas shown.

Appendix A.7. Number of limited entry permits and fishing effort in the South Peninsula, 1970-2001.

Year	Purse Seine		Drift Gillnet		Set Gillnet	
	Permits Available	Permits Fished	Permits 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
1998	122	79	164	145	115	86
1999	121	74	164	153	115	82
2000	121	76	161	149	115	84
2001	121	64	160	99	115	78
1981-2000 Average						
	124	109	164	147	114	74
1991-2000 Average						
	124	101	164	148	114	82

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 catch and escapement by species and year,  
1962-2001.

Year		Chinook <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a,b</sup>	Pink <sup>a</sup>	Chum <sup>a</sup>
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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Appendix A.9. (page 2 of 4)

Year		Chinook <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a,b</sup>	Pink <sup>a</sup>	Chum <sup>a</sup>
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

-Continued-

Appendix A.9. (page 3 of 4)

Year		Chinook <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a,b</sup>	Pink <sup>a</sup>	Chum <sup>a</sup>
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) <sup>c</sup>	1,598,400	354,700
	Total	16,522	2,482,144	367.2-397.2 <sup>c</sup>	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	-	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	-	5,852,644	1,403,979

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Year		Chinook <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a,b</sup>	Pink <sup>a</sup>	Chum <sup>a</sup>
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	-	7,464,646	1,437,046
1998	Catch	4,919	2,183,195	154,194	8,047,998	721,068
	Escapement	0	85,440	-	4,668,065	742,235
	Total	4,919	2,268,635	-	12,716,063	1,463,303
1999	Catch	5,074	2,991,819	192,503	8,456,449	840,030
	Escapement	0	96,800	-	5,015,310	725,180
	Total	5,074	3,088,619	-	13,471,759	1,565,210
2000	Catch	5,445	2,006,487	257,245	3,562,866	1,066,653
	Escapement	0	69,530	-	2,792,985	522,075
	Total	5,445	2,076,017	-	6,355,851	1,588,728
2001	Catch	2,620	613,004	212,499	3,791,611	885,807
	Escapement	0	161,630	-	2,965,136	751,221
	Total	2,620	774,634	-	6,756,747	1,637,028

<sup>a</sup> Salmon numbers include commercial and test fish harvests, but exclude subsistence harvests.

<sup>b</sup> Coho salmon escapement is not normally calculated due to the severe weather conditions in the fall, timing of coho in the area, and budgetary limitations.

<sup>c</sup> Escapements are indexed totals and the figures in parenthesis are rough extrapolated estimates.

Appendix A.10. South Peninsula pink salmon catch and escapement by year, 1962-2001.

Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1962	Catch	922,100	977,300	1,899,400	42,000	24,000	66,000
	Escapement	826,100	772,700	1,598,800			
	Total	1,748,200	1,750,000	3,498,200			
1963	Catch	1,733,900	590,800	2,324,700	14,000	29,000	43,000
	Escapement	886,500	431,400	1,317,900			
	Total	2,620,400	1,022,200	3,642,200			
1964	Catch	1,514,600	1,190,700	2,705,300	18,000	17,000	35,000
	Escapement	902,400	534,000	1,436,400			
	Total	2,417,000	1,724,700	4,141,700			
1965	Catch	2,331,400	474,700	2,806,100	43,000	35,000	78,000
	Escapement	789,900	245,500	1,035,400			
	Total	3,121,300	720,200	3,841,500			
1966	Catch	220,300	68,500	288,800	15,000	2,000	17,000
	Escapement	627,400	92,000	719,400			
	Total	847,700	160,500	1,008,200			
1967	Catch	53,100	4,200	57,300	11,000	10,000	21,000
	Escapement	327,300	118,200	445,500			
	Total	380,400	122,400	502,800			
1968	Catch	863,300	277,800	1,141,100	34,000	112,000	146,000
	Escapement	528,100	295,200	823,300			
	Total	1,391,400	573,000	1,964,400			
1969	Catch	862,800	265,300	1,128,100	68,000	23,000	91,000
	Escapement	1,906,200	568,700	2,474,900			
	Total	2,769,000	834,000	3,603,000			
1970	Catch	1,378,374	252,030	1,630,404	83,325	19,728	103,053
	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.10. (page 2 of 4)

Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1972	Catch	53,312	6,958	60,270	11,906	6,018	17,924
	Escapement	81,800	29,600	111,400			
	Total	135,112	36,558	171,670			
1973	Catch	36,427	2,073	38,500	11,152	8,278	19,430
	Escapement	85,700	25,100	110,800			
	Total	122,127	27,173	149,300			
1974	Catch	95,529	4,650	100,179	0	0	0
	Escapement	238,600	45,800	284,400			
	Total	334,129	50,450	384,579			
1975	Catch	30,052	25,343	55,395	3,205	2,042	5,247
	Escapement	357,800	194,300	552,100			
	Total	387,852	219,643	607,495			
1976	Catch	2,035,814	306,786	2,342,600	18,546	5,643	24,189
	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	57,174	107,862	165,036
	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	465,652	1,606,263
	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	326,394	126,248	452,642
	Escapement	1,875,000	431,800	2,306,800			
	Total	5,825,473	1,062,970	6,888,443			

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Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1982	Catch	4,104,934	911,131	5,016,065	1,037,204	688,341	3,438,913
	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	489,629
	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	3,890,097
	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	444,249	70,798	515,047
	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	500,942	118,215	619,157
	Escapement	2,268,400	678,400	2,946,800			
	Total	9,818,253	3,105,970	12,924,223			

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Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1992	Catch	4,860,628	4,256,851	9,117,479	501,127	140,963	642,090
	Escapement	1,781,000	1,053,400	2,834,400			
	Total	6,641,628	5,310,251	11,951,879			
1993	Catch	7,493,472	2,353,200	9,843,962	37,735	43,401	81,136
	Escapement	2,232,200	757,900	2,990,140			
	Total	9,725,712	3,111,100	12,834,102			
1994	Catch	3,149,763	3,501,426	6,651,189	1,731,741	760,773	2,492,514
	Escapement	1,700,525	1,371,200	3,073,225			
	Total	4,850,288	4,872,626	9,724,414			
1995	Catch	11,362,914	4,761,044	16,123,958	119,094	59,541	178,635
	Escapement	4,404,450	2,001,850	6,406,300			
	Total	15,767,364	6,762,894	22,530,258			
1996	Catch	1,513,954	306,881	1,820,835	146,799	230,885	377,684
	Escapement	2,668,950	978,600	3,647,550			
	Total	4,182,904	1,285,481	5,468,385			
1997	Catch	839,656	869,597	1,709,253	332,262	273,675	605,937
	Escapement	4,021,375	1,221,900	5,243,275			
	Total	4,861,031	2,091,497	6,952,528			
1998	Catch	5,565,639	2,000,702	7,566,341	125,906	348,434	474,340
	Escapement	2,856,255	1,811,810	4,668,065			
	Total	8,421,894	3,812,512	12,234,406			
1999	Catch	6,902,382	1,510,422	8,412,804	20,302	10,237	30,539
	Escapement	3,363,080	1,652,230	5,015,310			
	Total	10,265,462	3,162,652	13,428,114			
2000	Catch	2,344,546	844,970	3,189,516	210,521	149,508	360,029
	Escapement	1,688,785	1,104,200	2,792,985			
	Total	4,033,331	1,949,170	5,982,501			
2001	Catch	2,685,621	1,057,415	3,743,036	31,812	7,439	39,251
	Escapement	2,040,120	925,016	2,965,136			
	Total	4,725,741	1,982,431	6,708,172			

<sup>a</sup> Salmon numbers exclude test fish and subsistence harvests.

<sup>b</sup> Catch includes any fish (usually very few) caught in Southeastern District Mainland in June which are considered local.

Appendix A.11. South Peninsula chum salmon catch and escapement by year, 1962-2001.

Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1962	Catch	409,500	155,300	564,800	199,000	61,000	260,000
	Escapement	238,600	160,800	399,400			
	Total	648,100	316,100	964,200			
1963	Catch	278,000	80,300	358,300	67,000	36,000	103,000
	Escapement	263,000	183,700	446,700			
	Total	541,000	264,000	805,000			
1964	Catch	378,800	153,300	532,100	153,000	67,000	220,000
	Escapement	160,800	294,000	454,800			
	Total	539,600	447,300	986,900			
1965	Catch	221,700	150,700	372,400	139,000	45,000	184,000
	Escapement	203,300	24,200	228,000			
	Total	425,000	175,400	600,400			
1966	Catch	221,400	36,000	257,400	220,000	17,000	237,000
	Escapement	354,800	67,200	422,000			
	Total	576,800	103,200	679,400			
1967	Catch	118,700	4,500	123,200	71,000	51,000	122,000
	Escapement	132,800	50,100	182,900			
	Total	251,500	54,600	306,100			
1968	Catch	121,400	47,600	169,000	105,000	51,000	156,000
	Escapement	191,700	87,400	279,100			
	Total	313,100	135,000	448,100			
1969	Catch	95,100	43,300	138,400	238,000	13,000	251,000
	Escapement	96,900	37,700	134,600			
	Total	192,000	81,000	273,000			
1970	Catch	485,444	65,254	550,698	391,568	44,909	436,477
	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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Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1972	Catch	150,784	61,721	212,505	411,000	107,810	518,810
	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	35,543	100,822
	Escapement	160,200	33,100	193,300			
	Total	189,619	33,609	223,228			
1976	Catch	106,368	14,914	121,282	338,677	74,109	412,786
	Escapement	225,300	101,900	327,200			
	Total	331,668	116,814	448,482			
1977	Catch	109,132	17,630	126,762	94,097	21,899	115,996
	Escapement	500,900	274,000	774,900			
	Total	610,032	291,630	901,662			
1978	Catch	340,319	83,213	423,532	103,413	18,479	121,892
	Escapement	386,200	214,300	600,500			
	Total	726,519	297,513	1,024,032			
1979	Catch	280,286	98,426	378,712	64,144	43,133	107,277
	Escapement	302,700	108,400	411,100			
	Total	582,986	206,826	789,812			
1980	Catch	674,847	169,141	843,988	458,499	71,330	529,829
	Escapement	241,600	120,800	362,400			
	Total	916,447	289,941	1,206,388			
1981	Catch	961,456	239,998	1,201,454	517,201	54,071	571,272
	Escapement	234,500	146,800	381,300			
	Total	1,195,956	386,798	1,582,754			

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Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1982	Catch	915,847	255,661	1,171,508	934,553	161,646	1,096,199
	Escapement	203,000	183,900	386,900			
	Total	1,118,847	439,561	1,558,408			
1983	Catch	596,053	321,145	917,198	616,354	169,277	785,631
	Escapement	328,900	117,600	446,500			
	Total	924,953	438,745	1,363,698			
1984	Catch	827,717	484,630	1,312,347	227,923	109,207	337,130
	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	99,048	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	405,955	37,064	443,019
	Escapement	329,200	291,500	620,700			
	Total	179,482	471,000	1,550,482			
1988	Catch	829,518	552,278	1,381,796	464,765	61,946	526,711
	Escapement	269,100	227,300	496,400			
	Total	198,618	779,578	1,878,196			
1989	Catch	421,254	116,923	538,177	407,635	47,528	455,163
	Escapement	189,200	121,300	310,500			
	Total	610,454	238,223	848,677			
1990	Catch	563,642	152,298	715,940	444,249	63,501	507,750
	Escapement	210,900	143,800	354,700			
	Total	774,542	296,098	1,070,640			
1991	Catch	571,802	226,088	797,890	670,273	102,602	772,875
	Escapement	345,400	242,200	587,600			
	Total	917,202	468,288	1,385,490			

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Year		Non-Migrants			June Migrants		
		Southeastern <sup>b</sup> and South Central Districts	Southwestern and Unimak Districts	South <sup>a</sup> Peninsula Totals	South Unimak	Shumagin Islands	Total <sup>a</sup> June Migrants
1992	Catch	592,893	287,173	880,066	323,891	102,312	426,203
	Escapement	194,100	141,400	335,500			
	Total	786,993	428,573	1,215,566			
1993	Catch	331,003	182,576	513,579	381,941	150,306	532,247
	Escapement	172,400	224,630	397,030			
	Total	503,403	407,206	910,609			
1994	Catch	690,666	902,924	1,593,590	374,409	207,756	582,165
	Escapement	211,700	367,400	579,100			
	Total	902,366	1,270,324	2,172,690			
1995	Catch	666,344	511,290	1,177,634	349,057	195,126	544,183
	Escapement	324,750	401,650	726,400			
	Total	991,094	912,940	1,904,034			
1996	Catch	287,930	128,126	416,056	129,987	229,931	359,918
	Escapement	307,400	302,900	610,300			
	Total	595,330	431,026	1,026,356			
1997	Catch	106,622	182,559	289,181	196,016	126,309	322,325
	Escapement	542,050	267,000	809,050			
	Total	648,672	449,559	1,098,231			
1998	Catch	292,862	173,045	465,907	195,454	50,165	245,619
	Escapement	390,325	351,910	742,235			
	Total	683,187	524,955	1,208,142			
1999	Catch	396,431	175,229	571,660	186,886	58,420	245,306
	Escapement	336,050	389,130	725,180			
	Total	732,481	564,359	1,296,840			
2000	Catch	438,505	377,454	815,959	168,888	70,469	239,357
	Escapement	264,050	258,025	522,075			
	Total	702,555	635,479	1,338,034			
2001	Catch	440,108	386,321	826,429	36,099	12,251	48,350
	Escapement	473,800	277,421	751,221			
	Total	913,908	663,742	1,577,650			

<sup>a</sup> Catch numbers exclude test fish and subsistence harvests.

<sup>b</sup> Catch includes any fish (usually very few) caught in the Southeastern District Mainland in June which are considered local.

Appendix A.12. South Peninsula salmon harvest, all gear combined, by species and year, 1908-2001.

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 <sup>a</sup>			7,700	971,500	96,600	900,900	2,416,300	4,393,000
1929			10,500	935,800	84,500	1,793,500	2,429,000	5,253,300
1930			10,900	935,200	161,100	6,094,800	1,278,100	8,480,100
1931			11,000	1,863,200	128,700	997,900	1,216,000	4,216,800
1932			17,400	2,977,300	112,300	3,604,800	817,300	7,529,100
1933			12,600	1,996,700	190,000	3,109,200	1,173,900	6,482,400
1934			17,600	1,372,400	247,100	6,538,500	1,940,300	10,115,900
1935			13,900	978,400	117,200	5,386,200	2,003,100	8,498,800
1936			14,400	3,662,600	284,600	9,471,000	2,310,900	15,743,500
1937			9,300	1,558,000	73,900	9,302,000	1,506,700	12,449,900
1938			6,400	772,100	220,700	7,169,100	1,476,600	9,644,900
1939			16,500	1,881,700	98,900	6,005,300	1,440,600	9,443,000
1940			9,100	1,040,300	184,200	7,182,800	2,326,300	10,742,700
1941			13,000	1,072,000	183,000	5,347,000	1,542,000	8,157,000
1942			4,800	810,100	123,000	6,762,600	1,321,100	9,021,600
1943			21,700	2,397,700	90,600	4,360,200	924,500	7,794,700
1944			9,900	538,600	238,700	2,653,800	985,600	4,426,600
1945			21,400	813,400	116,100	3,639,600	948,900	5,539,400
1946			6,100	752,300	151,400	1,964,000	1,219,900	4,093,700
1947			3,400	1,137,100	55,800	2,319,600	1,219,200	4,735,100
1948			1,200	285,900	39,200	1,683,700	1,139,600	3,149,600
1949			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			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 <sup>b</sup>	354	6,403	16,522	2,386,844	307,218	2,865,856	1,237,826	6,814,266
1991	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	341	6,512	8,026	3,445,914	418,232	9,770,386	1,316,709	14,959,267		
1993	353	6,204	14,413	3,689,074	220,148	9,928,107	1,048,257	14,899,999		
1994	343	6,750	10,002	2,107,233	255,905	9,179,853	2,192,079	13,745,072		
1995	352	8,193	17,469	3,017,002	264,347	16,311,770	1,728,013	21,338,601		
1996	331	5,875	5,520	1,543,134	293,374	2,207,503	794,642	4,844,173		
1997	307	5,803	7,780	2,281,566	116,136	2,321,371	627,996	5,354,849		
1998	311	8,014	4,919	2,183,195	154,194	8,047,998	721,068	11,111,374		
1999	310	7,021	5,074	2,991,819	192,503	8,456,449	840,030	12,485,875		
2000	311	7,110	5,445	2,006,487	257,245	3,562,866	1,066,653	6,898,696		
2001	242	3,218	2,620	613,004	212,499	3,791,611	885,807	5,505,541		
Average 1918-29 <sup>c</sup>			7,475	1,389,683	79,475	1,455,883	1,175,125	4,107,642		
Average 1930-46 <sup>c</sup>			12,706	1,495,412	160,088	5,269,929	1,437,165	8,375,300		
Average 1947-77 <sup>c</sup>			179	2,546	2,567	591,844	26,747	1,523,900	751,226	2,896,285
Average 1978-2000 <sup>c</sup>			323	6,047	9,008	2,249,059	257,739	6,672,991	1,318,346	10,507,144
Average 1991-2000			331	6,792	8,662	2,558,537	248,921	8,040,306	1,192,424	12,048,850

<sup>a</sup> From 1928 through 1950 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. The South Peninsula harvests were generally dominated by pink salmon. The 1978-99 Aleutian Islands average salmon harvest was 510,317 fish, while the 1978-99 average harvest for the South Peninsula was 10,671,164 salmon.

<sup>b</sup> Since 1990, salmon numbers include test fish harvests.

<sup>c</sup> These historical averages are intended to illustrate how salmon productivity has fluctuated in the South Peninsula.

Note: Permit and landing numbers are only available from 1970 through present.

Appendix A.13. South Peninsula commercial salmon harvest, all gear combined, by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
13-Jun	4	4	133	8,422	0	260	2,491	11,306
15-Jun	4	4	60	5,706	0	1,044	3,384	10,194
20-Jun	93	93	38	32,849	0	7,135	11,609	51,631
23-Jun	46	49	38	35,335	0	2,095	9,626	47,094
24-Jun	26	32	46	14,497	2	1,617	4,878	21,040
25-Jun	a	a	a	a	a	a	a	a
27-Jun	35	41	19	30,963	0	11,504	9,342	51,828
30-Jun	44	47	11	22,860	0	15,596	7,020	45,487
1-Jul	a	a	a	a	a	a	a	a
2-Jul	a	a	a	a	a	a	a	a
3-Jul	a	a	a	a	a	a	a	a
6-Jul	36	38	0	14,601	157	7,514	6,066	28,338
8-Jul	22	24	5	4,901	31	525	1,309	6,771
9-Jul	88	136	35	33,249	417	8,418	24,444	66,563
10-Jul	50	83	38	23,117	150	2,691	7,275	33,271
11-Jul	5	5	1	1,172	0	11	12	1,196
12-Jul	80	99	42	17,027	2,755	13,601	27,374	60,799
13-Jul	52	109	53	19,845	395	8,245	11,445	39,983
14-Jul	55	94	23	14,686	452	10,153	9,672	34,986
15-Jul	32	41	4	4,854	2,032	7,126	6,461	20,477
17-Jul	30	35	115	6,830	11,728	21,389	8,097	48,159
18-Jul	92	128	246	18,041	20,604	45,787	25,892	110,570
19-Jul	13	17	2	1,698	4	674	1,163	3,541
20-Jul	12	13	14	1,747	1,646	11,494	3,422	18,323
21-Jul	104	128	115	21,476	28,147	151,079	43,683	244,500
22-Jul	24	40	1	1,587	12	6,268	3,483	11,351
23-Jul	76	104	206	15,408	27,158	117,924	19,140	179,836
24-Jul	76	81	92	11,615	26,762	122,961	28,847	190,277
25-Jul	15	16	1	711	21	22,226	9,237	32,196
26-Jul	70	80	32	3,878	1,589	96,432	32,705	134,636
27-Jul	72	81	14	6,684	2,348	73,024	13,187	95,257
28-Jul	10	10	0	2,232	1	24,354	5,016	31,603
29-Jul	11	12	0	1,855	0	18,834	3,318	24,007
30-Jul	81	113	8	6,880	2,486	229,810	34,691	273,875
31-Jul	a	a	a	a	a	a	a	a
1-Aug	82	126	238	10,224	12,475	271,411	39,089	333,437
2-Aug	87	113	270	11,206	15,023	334,492	28,618	389,609

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
3-Aug	80	99	66	6,631	5,388	185,133	28,704	225,922
6-Aug	43	67	101	7,070	4,515	130,100	21,206	162,992
7-Aug	71	97	86	9,640	3,407	255,778	38,438	307,349
8-Aug	4	5	0	7	5	49,207	2,640	51,859
9-Aug	50	68	22	10,363	3,423	230,114	25,695	269,617
10-Aug	69	92	23	17,570	7,056	313,589	41,449	379,687
11-Aug	46	62	59	10,726	4,377	119,598	10,111	144,871
12-Aug	62	79	3	7,983	1,626	183,292	43,751	236,655
13-Aug	51	58	12	8,781	2,253	163,384	14,240	188,670
14-Aug	63	84	12	11,527	3,120	237,680	29,763	282,102
15-Aug	19	22	0	4,638	214	92,613	18,350	115,815
16-Aug	12	12	0	119	3	42,019	22,997	65,138
17-Aug	11	11	0	12	0	21,158	18,196	39,366
18-Aug	8	8	0	6	5	36,948	13,140	50,099
19-Aug	5	5	0	0	0	17,624	3,723	21,347
21-Aug	7	9	0	0	9	16,949	19,224	36,182
22-Aug	9	9	0	0	0	8,057	22,746	30,803
25-Aug	4	4	0	0	0	2,185	12,334	14,519
26-Aug	4	4	0	0	0	0	13,357	13,357
29-Aug	7	7	0	15	25	0	14,191	14,231
30-Aug	7	7	0	0	0	810	12,244	13,054
1-Sep	27	54	0	11,788	2,246	614	759	15,407
2-Sep	27	43	1	10,713	2,126	843	853	14,536
3-Sep	21	29	1	9,467	1,648	175	419	11,710
4-Sep	20	31	0	7,002	1,169	192	234	8,597
8-Sep	24	27	0	4,628	983	0	86	5,697
9-Sep	22	38	3	11,367	1,889	0	213	13,472
10-Sep	21	29	0	7,620	1,157	0	182	8,959
15-Sep	10	10	0	2,178	236	0	17	2,431
16-Sep	14	19	0	4,299	650	0	44	4,993
17-Sep	15	22	4	7,497	1,228	0	51	8,780
18-Sep	15	29	7	10,079	1,898	0	29	12,013
19-Sep	13	25	0	5,598	783	0	7	6,388
22-Sep	9	11	0	1,367	343	0	0	1,710
23-Sep	9	11	0	1,627	412	0	0	2,039
24-Sep	5	5	0	2,487	549	0	0	3,036
<b>Total</b>	<b>241</b>	<b>3,209</b>	<b>2,302</b>	<b>606,680</b>	<b>209,146</b>	<b>3,782,287</b>	<b>874,779</b>	<b>5,475,194</b>

<sup>a</sup>Confidentiality requirements prohibit releasing this information.

Appendix A.14. South Peninsula commercial salmon harvest by species, statistical area, section, and district, 2001.

Statistical Area	Section	Number of Salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
<b>SOUTHEASTERN DISTRICT</b>							
281-15	Kupreanof Point	11	2,134	219	13,206	2,670	18,240
281-25	Island/ Fox Bay	115	132,894	15,689	169,289	49,077	367,064
<b>East Stepovak Section Total</b>		<b>126</b>	<b>135,028</b>	<b>15,908</b>	<b>182,495</b>	<b>51,747</b>	<b>385,304</b>
281-30	<b>Stepovak Flats Section</b>	<b>7</b>	<b>417</b>	<b>10</b>	<b>345</b>	<b>4,308</b>	<b>5,087</b>
281-40	Grub Gulch/Clark Bay	12	16,451	445	42,389	16,804	76,101
281-50	Orzinski Bay	1	8,736	17	1,426	1,680	11,860
281-55	American Bay	7	15,113	1,309	29,249	6,419	52,097
281-62	Chichagof Bay	5	7,804	225	109,306	9,300	126,640
281-65	Suzy Creek/West Cove	10	6,715	142	6,891	2,867	16,625
281-67	Dornoi Bay	0	17	1	15,410	1,723	17,151
<b>Northwest Stepovak Section Total</b>		<b>35</b>	<b>54,836</b>	<b>2,139</b>	<b>204,671</b>	<b>38,793</b>	<b>300,474</b>
281-70	<b>Southwest Stepovak Section</b>	<b>99</b>	<b>60,451</b>	<b>8,630</b>	<b>156,257</b>	<b>40,008</b>	<b>265,445</b>
281-80	<b>Balboa Bay Section</b>	<b>67</b>	<b>23,363</b>	<b>4,074</b>	<b>275,774</b>	<b>50,087</b>	<b>353,365</b>
281-90	<b>Beaver Bay Section</b>	<b>0</b>	<b>403</b>	<b>18</b>	<b>161,186</b>	<b>3,926</b>	<b>165,533</b>
282-10	Popof Strait/Squaw Harbor	4	5,668	829	126,410	5,950	138,861
282-11	Unga Cape/East Popof	1,745	82,525	134,062	743,244	92,585	1,054,161
282-20	Acheredin Bay	0	3,935	54	6,812	3,715	14,516
282-25	West Unga Island	5	10,094	899	10,804	7,197	28,999
282-32	Outer Zachary Bay	0	0	0	5,046	1,078	6,124
282-35	Zachary Bay	0	136	34	41,296	7,971	49,437
282-40	East Head/West Head	0	243	38	1,561	360	2,202
282-42	Korovin Island	11	13,531	6,661	44,437	9,935	74,575
282-45	Cape Wedge/Northeast Nagai	0	0	0	0	0	0
282-65	Southeast Nagai Island	5	2,137	1,146	7,797	1,103	12,188
282-70	Southwest Nagai Island	28	8,276	799	25,384	10,173	44,660
282-75	Cape Horn/Porpoise Rocks	5	2,963	47	3,988	2,159	9,162
282-80	East Nagai Strait	0	28	3	58	0	89
<b>Shumagin Islands Section Total</b>		<b>1,803</b>	<b>129,536</b>	<b>144,572</b>	<b>1,016,837</b>	<b>142,226</b>	<b>1,434,974</b>
<b>SOUTHEASTERN DISTRICT TOTAL</b>		<b>2,137</b>	<b>404,034</b>	<b>175,351</b>	<b>1,997,565</b>	<b>331,095</b>	<b>2,910,182</b>

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Statistical Area	Section	Number of Salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
<b>SOUTH CENTRAL DISTRICT</b>							
283-15	Mino Creek	0	7	0	39,708	2,465	42,180
283-17	Coal Bay/Cape Tolstoi South	0	757	81	222,754	2,928	226,520
<b>Mino Cr. - Little Coal B. Section Total</b>		<b>0</b>	<b>764</b>	<b>81</b>	<b>262,462</b>	<b>5,393</b>	<b>268,700</b>
283-21	Northside Cape Tolstoi	1	76	0	2,008	136	2,221
283-23	Eastside Pavlof Bay	1	12	1	168,118	7,566	175,698
<b>East Pavlof Bay Section Total</b>		<b>2</b>	<b>88</b>	<b>1</b>	<b>170,126</b>	<b>7,702</b>	<b>177,919</b>
283-24	Canoe Bay Section	4	149	24	241,528	96,263	177,919
283-25	Northwest Pavlof Bay	0	9	0	1,126	5,581	6,716
283-26	Long Beach/Ukolnoi	1	2,636	85	20,253	6,325	29,300
<b>West Pavlof Bay Section Total</b>		<b>1</b>	<b>2,645</b>	<b>85</b>	<b>21,379</b>	<b>11,906</b>	<b>36,016</b>
<b>SOUTH CENTRAL DISTRICT TOTAL</b>		<b>7</b>	<b>3,646</b>	<b>191</b>	<b>695,495</b>	<b>121,264</b>	<b>820,603</b>
<b>SOUTHWESTERN DISTRICT</b>							
284-36	Volcano Bay	1	340	267	43,028	154,314	197,950
284-37	Northside Dolgoi Island	2	15,913	2,174	83,207	17,698	118,994
284-38	South Dolgoi/Moss Cape	0	3,839	179	75,337	3,660	83,015
284-39	Poperechnoi	0	1,001	1,288	5,905	722	8,916
<b>Volcano Bay Section Total</b>		<b>3</b>	<b>21,093</b>	<b>3,908</b>	<b>207,477</b>	<b>176,394</b>	<b>408,875</b>
284-42	Belkofski Bay	2	12,866	149	280,984	63,613	357,614
284-45	King Cove	0	2,778	257	115,471	13,352	131,858
<b>Belkofski Bay Section Total</b>		<b>2</b>	<b>15,644</b>	<b>406</b>	<b>396,455</b>	<b>76,965</b>	<b>489,472</b>
284-55	Deer Island Section	0	67	15	392,245	3,117	395,444
284-62	Outer Cold Bay	0	2,254	0	1,531	1,485	5,270
284-65	Lenard Harbor	0	49	0	28,733	65,008	93,790
284-67	Upper Cold Bay	0	276	0	48	11,031	11,355
<b>Cold Bay Section Total</b>		<b>0</b>	<b>2,579</b>	<b>0</b>	<b>30,312</b>	<b>77,524</b>	<b>110,415</b>

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Statistical Area	Section	Number of Salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
284-75	Thin Point Section	0	17,581	521	12,536	13,552	44,190
284-80	Morzhovoi Bay Section	0	1,619	0	2,775	15,022	19,416
284-90	Ikatan Bay Section	98	92,007	28,745	43,750	42,861	207,461
<b>SOUTHWESTERN DISTRICT TOTAL</b>		<b>103</b>	<b>150,590</b>	<b>33,595</b>	<b>1,085,550</b>	<b>405,435</b>	<b>1,675,273</b>
<b>UNIMAK DISTRICT</b>							
285-10	Sanak Island Section	0	389	9	40	15	453
285-20	Bird Island	2	10,569	0	820	3,124	14,515
285-30	Cape Lazaref	20	23,409	0	2,005	8,305	33,739
<b>Otter Cove Section Total</b>		<b>22</b>	<b>33,978</b>	<b>0</b>	<b>2,825</b>	<b>11,429</b>	<b>48,254</b>
285-40	Cape Lutke Section	33	14,043	0	812	5,541	20,429
<b>UNIMAK DISTRICT TOTAL</b>		<b>55</b>	<b>48,410</b>	<b>9</b>	<b>3,677</b>	<b>16,985</b>	<b>69,136</b>
<b>SOUTH PENINSULA TOTAL</b>		<b>2,302</b>	<b>606,680</b>	<b>209,146</b>	<b>3,782,287</b>	<b>874,779</b>	<b>5,475,194</b>

<sup>a</sup>Harvest numbers do not include test fish catches.

Appendix A.15. South Peninsula commercial salmon harvest by species, district, and gear, 2001.

	Number of Salmon <sup>a</sup>						Percent Total of Harvest
	Chinook	Sockeye	Coho	Pink	Chum		
<b>SOUTHEASTERN DISTRICT</b>							
Seine	1,930	101,507	145,000	1,712,133	190,509	2,151,079	73.9
Set gillnet	207	302,527	30,351	285,432	140,586	759,103	26.1
<b>Total</b>	<b>2,137</b>	<b>404,034</b>	<b>175,351</b>	<b>1,997,565</b>	<b>331,095</b>	<b>2,910,182</b>	<b>100.0</b>
<b>SOUTH CENTRAL DISTRICT</b>							
Seine	7	2,426	124	694,268	120,120	816,945	99.6
Set gillnet	0	1,220	67	1,227	1,144	3,658	0.4
<b>Total</b>	<b>7</b>	<b>3,646</b>	<b>191</b>	<b>695,495</b>	<b>121,264</b>	<b>820,603</b>	<b>100.0</b>
<b>SOUTHWESTERN DISTRICT</b>							
Seine	13	31,192	3,822	1,023,462	355,848	1,414,337	84.4
Drift gillnet	68	78,198	28,483	25,040	37,291	169,080	10.1
Set gillnet	22	41,200	1,290	37,048	12,296	91,856	5.5
<b>Total</b>	<b>103</b>	<b>150,590</b>	<b>33,595</b>	<b>1,085,550</b>	<b>405,435</b>	<b>1,675,273</b>	<b>100.0</b>
<b>UNIMAK DISTRICT</b>							
Seine	3	2,823	0	513	1,326	4,665	6.7
Drift gillnet	52	45,587	9	3,164	15,659	64,471	93.3
Set gillnet	0	0	0	0	0	0	0.0
<b>Total</b>	<b>55</b>	<b>48,410</b>	<b>9</b>	<b>3,677</b>	<b>16,985</b>	<b>69,136</b>	<b>100.0</b>
<b>SOUTH PENINSULA TOTAL</b>							
Seine	1,953	137,948	148,946	3,430,376	667,803	4,387,026	80.1
Drift gillnet	120	123,785	28,492	28,204	52,950	233,551	4.3
Set gillnet	229	344,947	31,708	323,707	154,026	854,617	15.6
<b>Total</b>	<b>2,302</b>	<b>606,680</b>	<b>209,146</b>	<b>3,782,287</b>	<b>874,779</b>	<b>5,475,194</b>	<b>100.0</b>

<sup>a</sup>Harvest numbers do not include test fish catches.

Appendix A.16. South Peninsula emergency order summary, 2001.

E.O.#	Issued	Effective	Action Taken
CB-02	11:00 AM 6/7/01	6:00 AM 6/11/01	<u>Expand</u> closed waters to include all waters located south the latitude of Hague Rock (54 deg. 33 min. 10 sec. N. lat.) and east of the longitude of Cape Pankof (163 deg. 03 min. 36 sec. W. long.) south of the latitude of Hague Rock (near Sanak Island) from 6/1 through 6/30. <u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak and Shumagin Island fisheries from 6:00 AM until 10:00 PM Monday, June 11.
SP-01	11:30 AM 6/7/01	6:00 AM 6/10/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Sunday, June 10 in the Shumagin Islands Section and in the South Unimak Fishery.
SP-02	7:30 PM 6/10/01	6:00 AM 6/11/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Monday, June 11 in the South Unimak Fishery and the Shumagin Islands Section.
SP-03	8:30 PM 6/11/01	6:00 AM 6/12/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Tuesday, June 12 in the Shumagin Islands Section and in the South Unimak Fishery.
CB-03	8:30 PM 6/11/0	10:00 PM 6/11/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak and Shumagin Island fisheries from 6:00 AM until 10:00 PM Tuesday, June 12.
SP-04	NOON 6/12/01	NOON 6/12/01	<u>Allow</u> subsistence salmon fishing in the Northwestern, Unimak, Southwestern, South Central, and Southeastern Districts any time except within eight (8) hours prior to and eight (8) hours following a commercial salmon fishing period within a 50-mile radius from the area open to commercial salmon fishing from 12:00 NOON on June 12 until 12:00 MIDNIGHT on June 30. .
SP-05	8:00 PM 6/12/01	6:00 AM 6/13/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Wednesday, June 13 in the Shumagin Islands Section and in the South Unimak Fishery.
CB-04	8:00 PM 6/12/01	6:00 AM 6/13/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Wednesday, June 13. <u>Establish</u> a 16-hour commercial salmon fishing period for seine gear in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Wednesday, June 13.
CB-05	8:00 PM 6/13/01	6:00 AM 6/15/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Friday, June 15. <u>Establish</u> a 16-hour commercial salmon fishing period for seine gear in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Friday, June 15.
SP-06	8:00 PM 6/13/01	6:00 AM 6/14/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Thursday, June 14 in the Shumagin Islands Section and in the South Unimak Fishery.

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E.O.#	Issued	Effective	Action Taken
SP-07	8:00 PM 6/14/01	6:00 AM 6/15/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Friday, June 15 in the Shumagin Islands Section and in the South Unimak Fishery.
SP-08	8:00 PM 6/15/01	6:00 AM 6/16/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Saturday, June 16 in the Shumagin Islands Section and in the South Unimak Fishery.
CB-07	8:00 PM 6/15/01	6:00 AM 6/18/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Monday, June 18. <u>Establish</u> a 16-hour commercial salmon fishing period in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Monday, June 18.
SP-09	8:00 PM 6/16/0	6:00 AM 6/17/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Sunday, June 17 in the Shumagin Islands Section and in the South Unimak Fishery.
SP-10	8:00 PM 6/17/01	6:00 AM 6/18/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Monday, June 18 in the Shumagin Islands Section and in the South Unimak Fishery.
SP-11	8:00 PM 6/18/01	6:00 AM 6/19	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Tuesday, June 19 in the Shumagin Islands Section and in the South Unimak Fishery.
CB-08	8:00 PM 6/18/01	6:00 AM 6/19/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Tuesday, June 19. <u>Establish</u> a 16-hour commercial salmon fishing period in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Tuesday, June 19, for seine gear.
CB-09	8:00 PM 6/19/01	6:00 AM 6/20/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Wednesday, June 20. <u>Establish</u> a 16-hour commercial salmon fishing period in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Wednesday, June 20, for seine gear.
SP-12	8:00 PM 6/19/01	6:00 AM 6/20/01	<u>Establish</u> a 16-hour commercial salmon set gillnet fishing period from 6:00 AM until 10:00 PM during Wednesday, June 20 in the Shumagin Islands Section and in the South Unimak Fishery.
CB-11	8:00 PM 6/20/01	6:00 AM 6/21/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and drift gillnet gear in the South Unimak Fishery from 6:00 AM until 10:00 PM Thursday, June 21. <u>Establish</u> a 16-hour commercial salmon fishing period in the Shumagin Islands Fishery from 6:00 AM until 10:00 PM Thursday, June 21, for seine gear.
CB-12	8:00 PM 6/20/01	6:00 AM 6/21/01	<u>Establish</u> a 16-hour commercial salmon fishing period for set gillnet gear in the South Unimak fishery from 6:00 AM until 10:00 PM Thursday, June 21.

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E.O.#	Issued	Effective	Action Taken
CB-13	8:15 PM 6/21/01	6:00 AM 6/22/01	<u>Establish</u> a 16-hour commercial salmon fishing period for all legal gear types in the South Unimak and Shumagin Islands fisheries from 6:00 AM until 10:00 PM Friday, June 22.
CB-15	8:00 PM 6/22/01	6:00 AM 6/23/01	<u>Establish</u> a 16-hour commercial salmon fishing period is established for all legal gear types in the South Unimak and Shumagin Islands fisheries from 6:00 AM until 10:00 PM Saturday, June 23.
SP-13	8:00 PM 6/22/01	6:00 AM 6/24/01	<u>Establish</u> a 24-hour commercial salmon fishing period for set gillnet gear from 6:00 AM Sunday June 24 until 6:00 AM Monday, June 25 in the East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.
CB-16	9:00 PM 6/23/01	6:00 AM 6/24/01	<u>Establish</u> a 16-hour commercial salmon fishing period for all legal gear types in the South Unimak and Shumagin Islands fisheries from 6:00 AM until 10:00 PM Sunday, June 24.
CB-17	7:45 PM 6/24/01	6:00 AM 6/27/01	<u>Establish</u> a 16-hour commercial salmon fishing period for all legal gear types in the South Unimak and Shumagin Islands fisheries from 6:00 AM until 10:00 PM Wednesday, June 27.
SP-14	7:45 PM 6/24/01	6:00 AM 6/25/01	<u>Extend</u> the current commercial salmon fishing period for set gillnet gear for approximately 18 hours from 6:00 AM Monday, June 25 until 11:59 PM Monday, June 25, 2001 in the East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.
SP-15	8:00 PM 6/27/01	6:00 AM 6/28/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and set gillnet gear from 6:00 AM until 10:00 PM during Thursday, June 28 in the Shumagin Islands Section.
CB-19	9:00 AM 6/28/01	6:00 AM 6/30/01	<u>Establish</u> a 16-hour commercial salmon fishing period for all legal gear types in the South Unimak fishery from 6:00 AM until 10:00 PM Saturday, June 30.
SP-16	8:00 PM 6/28/01	6:00 AM 6/29/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and set gillnet gear from 6:00 AM until 10:00 PM Friday, June 29 in the Shumagin Islands Section.
SP-17	7:45 PM 6/29/01	6:00 AM 6/30/01	<u>Establish</u> a 16-hour commercial salmon fishing period for seine and set gillnet gear from 6:00 AM until 10:00 PM during Saturday, June 30 in the Shumagin Islands Section.
SP-18	7:45 PM 6/29/01	3:00 PM 7/1/01	<u>Establish</u> a 48-hour commercial set gillnet salmon fishing period from 3:00 PM Sunday July 1 until 3:00 PM Tuesday, July 3 in the Northwest Stepovak Section.
SP-19	10:30 AM 7/3/01	3:00 PM 7/3/01	<u>Extend</u> the current commercial fishing period for set gillnet gear in all waters of Orzinski Bay north of a line from Elephant Point at 55°41.92' N. lat., 160°03.20' W. long. to Waterfall Point at 55°43.18' N. lat., 160°01.13' W. long. to remain open for an additional 24 hours from 3:00 PM Tuesday, July 3 until 3:00 PM Wednesday, July 4.

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E.O.#	Issued	Effective	Action Taken
SP-20	7:45 PM 7/3/01	6:00 PM 7/5/01	<u>Establish</u> a 48-hour commercial salmon set gillnet fishing period from 6:00 PM Thursday, July 5 until 6:00 PM Saturday, July 7 in the Northwest Stepovak Section
SP-21	8:30 AM 7/4/01	3:00 PM 7/4/01	<u>Extend</u> the current commercial fishing period for set gillnet gear in all waters of Orzinski Bay north of a line from Elephant Point at 55°41.92' N. lat., 160°03.20' W. long. to Waterfall Point at 55°43.18' N. lat., 160°01.13' W. long. to remain open for an additional 75 hours from 3:00 PM Wednesday, July 4 until 6:00 PM Saturday, July 7.
SP-22	11:00 AM 7/4/01	12:01 AM 7/6/01	<u>Establish</u> an approximately 21 hour commercial salmon fishing period from 12:01 AM until 9:00 PM during Friday, July 6 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and, for set gillnet gear only, the Shumagin Islands Section.
SP-23	3:30 PM 7/5/01	12:01 AM 7/6/01	<u>Establish</u> an approximately 21-hour commercial salmon fishing period for seine gear from 12:01 AM until 9:00 PM during Friday, July 6 in the Shumagin Islands Section.
SP-24	2:00 PM 7/7/01	6:00 PM 7/8/01	<u>Establish</u> a 48-hour commercial salmon fishing period for set gillnet gear from 6:00 PM Sunday July 8 until 6:00 PM Tuesday, July 10 in the East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.
SP-25	8:00 PM 7/7/01	9:00 PM 7/8/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 9:00 PM Sunday July 8 until 9:00 PM Monday, July 9 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and, for set gillnet gear only, the Shumagin Islands Section.
SP-26	8:00 PM 7/10/01	9:00 PM 7/11/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 9:00 PM Wednesday, July 11 until 9:00 PM Thursday, July 12 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and, for set gillnet gear only, the Shumagin Islands Section.
SP-27	11:00 AM 7/11/01	6:00 PM 7/12/01	<u>Establish</u> a 48-hour commercial salmon fishing period for set gillnet gear from 6:00 PM Thursday, July 12 until 6:00 PM Saturday, July 14 in the East Stepovak, Stepovak Flats, Northwest Stepovak, Southwest Stepovak, Balboa Bay, and Beaver Bay Sections.
SP-28	2:30 PM 7/13/01	9:00 PM 7/14/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 9:00 PM Saturday, July 14 until 9:00 PM Sunday, July 15 in the South Central District, Southwestern District, Sanak Island Section, Otter Cove Section and, for set gillnet gear only, in the Shumagin Islands Section.
SP-29	8:45 AM 7/16/01	1:00 PM 7/17/01	<u>Establish</u> a 48-hour commercial salmon fishing period for seine and set gillnet gear from 1:00 PM Tuesday, July 17 until 1:00 PM Thursday, July 19 in the Northwest Stepovak Section.

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E.O.#	Issued	Effective	Action Taken
SP-30	4:00 PM 7/16/01	9:00 PM 7/17/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 9:00 PM Tuesday, July 17 until 9:00 PM Wednesday, July 18 in the Shumagin Islands Section of the Southeastern District, South Central District, Southwestern District, Sanak Island Section and Otter Cove Section.
SP-31	7/18/01	1:00 PM 7/19/01	<u>Establish</u> a commercial salmon fishing period beginning 1:00 PM Thursday, July 19 and extending until further notice for seine and set gillnet gear in those waters of Orzinski Bay north of a line from Elephant Point at 55°41.92' N. lat., 160°03.20' W. long. to Waterfall Point at 55°43.18 N. lat., 160°01.13' W. long.. <u>Reduce</u> waters closed to commercial salmon fishing by seine and set gillnet gear to within 500 yards of the terminus at the ocean shoreline of the Orzinski River until further notice.
SP-32	3:00PM 7/19/01	9:00 PM 7/20/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 9:00 PM Friday, July 20 until 9:00 PM Saturday, July 21 in the Shumagin Islands Section of the Southeastern District, South Central District, Southwestern District, Sanak Island Section and Otter Cove Section.
SP-33	11:30 AM 7/20/01	6:00 PM 7/21/01	<u>Establish</u> a 48-hour commercial salmon fishing period for seine and set gillnet gear from 6:00 PM Saturday, July 21 until 6:00 PM Monday, July 23 in the Northwest Stepovak Section.
SP-34	NOON 7/22/01	NOON 7/23/01	<u>Establish</u> a 24-hour commercial salmon fishing period from NOON Monday, July 23 until NOON Tuesday, July 24 in the Shumagin Islands Section of the Southeastern District, South Central District, Southwestern District, Sanak Island Section and Otter Cove Section.
CB-28	8:30 AM 7/23/01	NOON 7/24/01	<u>Extend</u> commercial fishing time 57 hours from NOON Tuesday, July 24 until 9:00 PM Thursday, July 26 in the locations listed as terminal by regulation during July 22-31 in the South Central and Southwestern Districts.
SP-35	2:00 PM 7/24/01	11:59 PM 7/25/01	<u>Close</u> the current commercial salmon fishing period in those waters of Orzinski Bay north of a line from Elephant Point at 55°41.92' N. lat., 160°03.20' W. long. to Waterfall Point at 55°43.18' N. lat., 160°01.13' W. long. effective 11:59 PM Wednesday, July 25 until further notice.
CB-29	11:30 AM 7/25/01	2:00 PM 7/26/01	<u>Establish</u> a 24-hour commercial salmon fishing period from 2:00 PM Thursday, July 26 until 2:00 PM Friday, July 27 in the Southeastern District Mainland, the South Central District, Southwestern District, Otter Cove Section, and Sanak Island Section. <u>Reduce</u> closed waters of Thin Point Cove to include only those waters within 1,000 yards of the Thin Point Lagoon outlet terminus and to within 500 yards of the other salmon stream emptying into Thin Point Cove, from 2:00 PM Thursday, July 26 through Monday, July 30.

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E.O.#	Issued	Effective	Action Taken
CB-31	8:00 AM 7/26/01	2:00 PM 7/27/01	<u>Extend</u> commercial salmon fishing time for 79 hours until 9:00 PM Monday, July 30 in the Morzhovoi Bay, Thin Point, Deer Island, and Canoe Bay Sections.
CB-32	10:30 AM 7/28/01	7:00 AM 7/30/01	<u>Establish</u> a 14-hour commercial salmon fishing period from 7:00 AM until 9:00 PM Monday, July 30 in the Southeast District Mainland, Zachary Bay south of 52° 22.60 N. lat., South Central District, Southwestern District, Otter Cove Section, and Sanak Island Section.
CB-34	5:00 PM 7/30/01	12:01 AM 7/30/01	<u>Reduce</u> closed waters to the stream terminus at the ocean shoreline of Eastern Creek, Southern Creek, and the westernmost of the streams commonly called Western Creeks on Deer Island during the open fishing periods from July 30 through August 31.
CB-35	11:30 AM 7/30/01	9:00 PM 7/30/01	<u>Extend</u> commercial salmon fishing time for 96 hours until 9:00 PM Friday, August 3 in the Deer Island and Canoe Bay Sections.
SP-36	5:00 PM 7/30/01	8:00 AM 8/1/01	<u>Establish</u> a 37-hour commercial salmon fishing period from 8:00 AM Wednesday, August 1 until 9:00 PM Thursday, August 2 in the Southeastern District, South Central District, Southwestern District, and Unimak District.
SP-37	5:00 PM 7/30/01	8:00 AM 8/1/01	<u>Reduce</u> the closed waters of Dry Lagoon to those waters upstream of the terminus at the ocean shoreline until further notice.
CB-37	11:00 AM 8/2/01	9:00 PM 8/2/01	<u>Extend</u> the commercial salmon fishing period 24 hours until 9:00 PM Friday, August 3 in all four South Peninsula Districts. <u>Reduce</u> closed waters to include only those waters upstream of the stream terminus at the ocean shoreline of Middle Creek and Mino Creek, effective 9:00 PM Thursday, August 2 through August 31.
CB-38	11:45 AM 8/3/01	9:00 PM 8/3/01	<u>Extend</u> commercial salmon fishing time for 72 hours until 9:00 PM Monday, August 6 in the Deer Island Section.
CB-40	10:15 AM 8/4/01	8:00 AM 8/5/01	<u>Establish</u> a 37-hour commercial salmon fishing period from 8:00 AM Sunday, August 5 until 9:00 PM Monday, August 6 in that portion of the South Peninsula west of McGinty Point.
SP-38	9:30 AM 8/5/01	8:00 AM 8/6/01	<u>Establish</u> a 37-hour commercial salmon fishing period from 8:00 AM Monday, August 6 until 9:00 PM Tuesday, August 7 in the Southeastern District.
CB-41	11:30 AM 8/6/01	9:00 PM 8/6/01	<u>Extend</u> commercial salmon fishing time 24 hours until 9:00 PM Tuesday, August 7 in that portion of the South Peninsula west of McGinty Point.
CB-42	10:30 AM 8/7/01	9:00 PM 8/7/01	<u>Extend</u> commercial salmon fishing time 72 hours until 9:00 PM Friday, August 10 in the Deer Island Section, Dolgoi Harbor, and Canoe Bay Section.

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E.O.#	Issued	Effective	Action Taken
CB-43	11:45 AM 8/8/01	8:00 AM 8/9/01	<p><u>Establish</u> 37-hour commercial salmon fishing period from 8:00 AM Thursday, August 9 until 9:00 PM Friday, August 10 in all sections of the four South Alaska Peninsula districts except the Cold Bay, Northwest Stepovak, and Stepovak Flats Sections.</p> <p><u>Reduce</u> closed waters of Middle Lagoon to include only those waters north of 55° 05.00' N. lat during 8:00 AM Thursday, August 9 until 9:00 PM Friday, August 10.</p> <p><u>Reduce</u> closed waters of Thin Point Cove to include only those waters within 1,000 yards of the Thin Point Lagoon outlet terminus and within 500 yards of the other salmon stream emptying into Thin Point Cove during open fishing periods between August 9 and 15.</p> <p><u>Reduce</u> closed waters of Middle Lagoon to include only those waters north of 55° 05.00' N. lat during 8:00 AM Thursday, August 9 until 9:00 PM Friday, August 10.</p> <p><u>Reduce</u> the closed waters to include only those waters upstream from the terminus at the ocean shoreline of Mc-Ginty's Creek, all streams on Deer Island, all streams in Dolgoi Harbor, and all streams between and including Mino Creek to McGinty Point, including McGinty Point Creek, effective 8:00 AM Thursday, August 9 through August 31.</p>
CB-45	10:00 AM 8/10/01	9:00 PM 8/10/01	<p><u>Extend</u> commercial salmon fishing time 72 hours until 9:00 PM Monday, August 13 in the Thin Point Section, Deer Island Section, Dolgoi Harbor, and Canoe Bay Section.</p>
SP-39	11:00 AM 8/10/01	9:00 PM 8/10/01	<p><u>Extend</u> the current commercial salmon fishing period for 24 hours from 9:00 PM Friday, August 10 until 9:00 PM Saturday, August 11 in the Southeastern District outside of the Northwest Stepovak Section.</p>
CB-46	10:00 AM 8/11/01	8:00 AM 8/12/01	<p><u>Establish</u> a 37-hour fishing period beginning 8:00 AM Sunday, August 12 in that portion of the South Peninsula west of McGinty Point.</p>
SP-40	10:30 AM 8/11/01	9:00 PM 8/11/01	<p><u>Establish</u> a 24-hour commercial salmon fishing period in the Northwest Stepovak Section District from 9:00 PM Saturday, August 11 until 9:00 PM Sunday, August 12.</p> <p><u>Extend</u> the current commercial salmon fishing period for 24 hours in the balance of the Southeastern District from 9:00 PM Saturday, August 11 until 9:00 PM Sunday, August 12.</p>
SP-41	10:30 AM 8/12/01	9:00 PM 8/12/01	<p><u>Extend</u> the current commercial salmon fishing period in the Southeastern District for 24 hours from 9:00 PM Sunday, August 12 until 9:00 PM Monday, August 13.</p>
CB-48	9:30 AM 8/13/01	6:00 PM 8/13/01	<p><u>Extend</u> commercial salmon fishing time 48 hours until 9:00 PM Wednesday, August 15 in that portion of the South Peninsula west of McGinty Point.</p>

-Continued-

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E.O.#	Issued	Effective	Action Taken
SP-42	10:00 AM 8/13/01	9:00 PM 8/13/01	<u>Extend</u> the current commercial salmon fishing period in the Southeastern District for 24 hours until 9:00 PM Tuesday, August 14.
CB-49	11:30 AM 8/15/01	9:00 PM 8/15/01	<u>Extend</u> commercial salmon fishing time 48 hours until 9:00 PM Friday, August 17 in the Bechevin Bay Section, Unimak District, Southwestern District, and South Central District.
CB-51	10:00 AM 8/17/01	9:00 PM 8/17/01	<u>Extend</u> commercial salmon fishing time 48 hours until 9:00 PM Sunday, August 19 in that portion of the Alaska Peninsula Area's south side west of McGinty Point.
CB-52	9:30 AM 8/19/01	9:00 PM 8/19/01	<u>Extend</u> commercial salmon fishing time 48 hours until 9:00 PM Tuesday, August 21 in the Bechevin Bay and Izembek-Moffet Bay Sections and that portion of the Alaska Peninsula Area's south side west of McGinty Point.
CB-54	9:30 AM 8/21/01	9:00 PM 8/21/01	<u>Extend</u> commercial salmon fishing time 24 hours until 9:00 PM Wednesday, August 22 in that portion of the Alaska Peninsula Area's south side west of McGinty Point.
CB-55	10:00 AM 8/22/01	6:00 PM 8/22/01	<u>Extend</u> commercial salmon fishing time 48 hours until 9:00 PM Friday, August 24 in that portion of the Southwestern District located west of 162° 14.00' W. long., the longitude of Table Rock.
CB-56	9:00 AM 8/24/01	9:00 PM 8/24/01	<u>Extend</u> commercial salmon fishing time for 48 hours until 9:00 PM Sunday, August 26 in that portion of the Southwestern District located west of 162° 14.00' W. long., the longitude of Table Rock.
CB-58	9:00 AM 8/28/01	8:00 AM 8/29/01	<u>Establish</u> a 37 hour commercial salmon fishing period from 8:00 AM Wednesday, August 29 until 9:00 PM Thursday, August 30 in the South Central District and Southwestern District.
SP-43	9:00 AM 8/28/01	9:00 AM 9/1/01	<u>Establish</u> a 59-hour commercial salmon fishing period from 9:00 AM Saturday, September 1 until 8:00 PM Monday, September 3 in the Southeastern District.
SP-44	9:00 AM 8/28/01	12:01 AM 9/1/01	<u>Extend</u> the closed waters in the East Stepovak Section, as described under 5 AAC 09.350 (37), from September 1 through October 31, 2001.
CB-59	9:00 AM 8/31/01	9:00 AM 9/1/01	<u>Establish</u> a 59 hour commercial salmon fishing period from 9:00 AM Saturday, September 1 until 8:00 PM Monday, September 3 in the Thin Point, Morzhovoi Bay and Ikaton Bay Sections. <u>Expand</u> the closed waters of Sandy Cove to include all waters within 500 yards of the stream terminus effective 9:00 AM Saturday, September 1.
SP-45	10:00 AM 9/3/01	8:00 PM 9/3/01	<u>Extend</u> the current commercial salmon fishing period for 24 hours from 8:00 PM Monday, September 3 until 8:00 PM Tuesday, September 4 in the Southeastern District.
CB-60	10:30 AM 9/3/01	8:00 PM 9/3/01	<u>Extend</u> the commercial salmon fishing period for 48 hours until 8:00 PM Wednesday, September 5 in the Thin Point, Morzhovoi Bay and Ikaton Bay Sections.

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E.O.#	Issued	Effective	Action Taken
SP-46	10:00 AM 9/6/01	9:00 AM 9/8/01	<u>Establish</u> a 59-hour commercial salmon fishing period from 9:00 AM Saturday, September 8 until 8:00 PM Monday, September 10 in the Southeastern District.
SP-47	9:00 AM 9/13/01	9:00 AM 9/15/01	<u>Establish</u> a 59-hour commercial salmon fishing period from 9:00 AM Saturday, September 15 until 8:00 PM Monday, September 17 in the Southeastern District.
SP-48	10:00 AM 9/14/01	9:00 AM 9/18/01	<u>Expands</u> the closed waters of Dry Lagoon to those waters within 500 yards of the stream terminus at the ocean shoreline until further notice.
SP-49	10:00 AM 9/17/01	8:00 PM 9/17/01	<u>Extends</u> the current commercial salmon fishing period for 24 hours from 8:00 PM Monday, September 17 until 8:00 PM Tuesday, September 18 in the Southeastern District.
SP-50	10:00 AM 9/18/01	8:00 PM 9/18/01	<u>Extends</u> the current commercial salmon fishing period for 24 hours from 8:00 PM Tuesday, September 18 until 8:00 PM Wednesday, September 19 in the Southeastern District.
SP-51	11:00 AM 9/20/01	9:00 AM 9/22/01	<u>Establish</u> a 59-hour commercial salmon fishing period from 9:00 AM Saturday, September 22 until 8:00 PM Monday, September 24 in the Southeastern District.

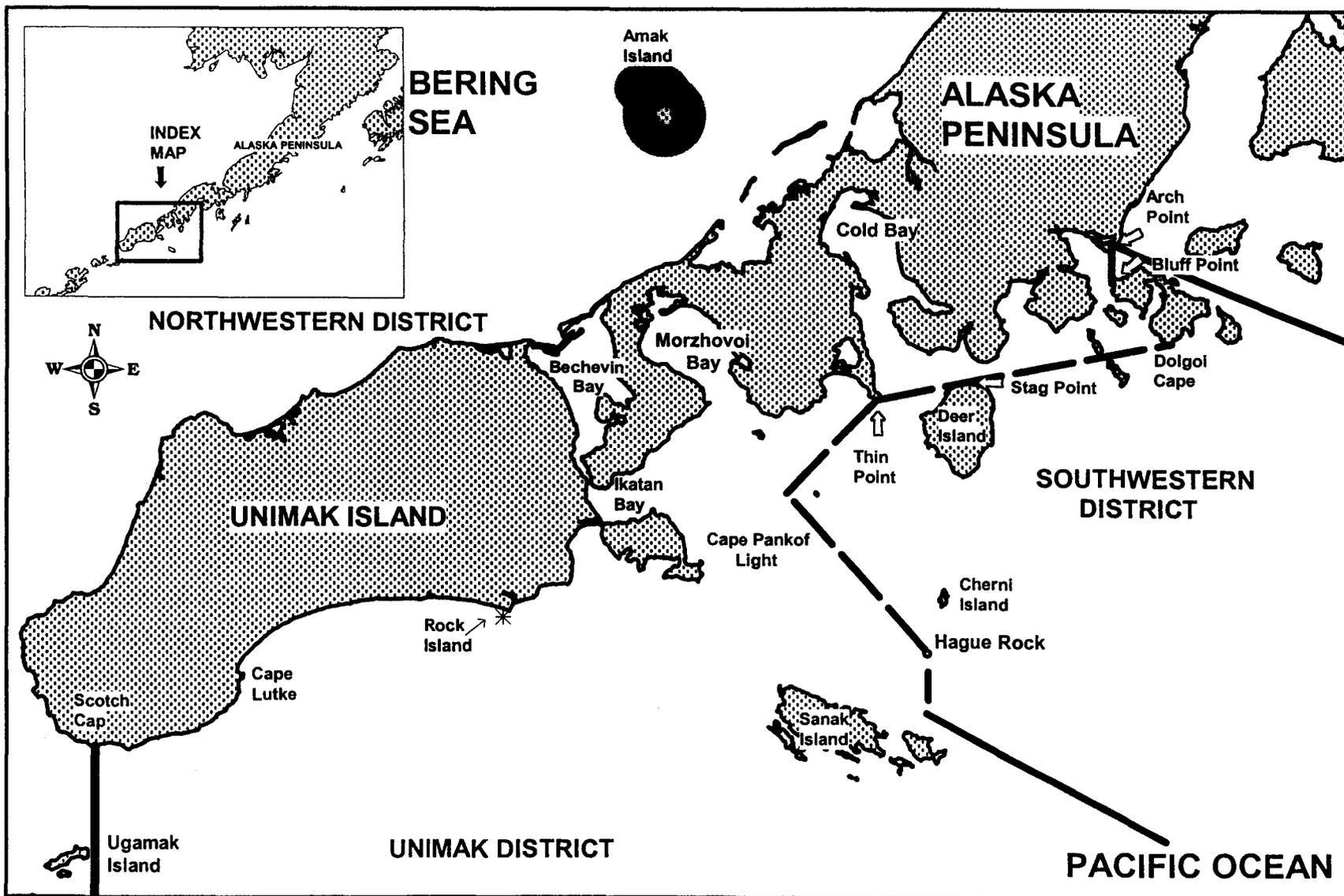
Appendix B.1. South Unimak and Shumagin Islands June commercial sockeye and chum salmon harvest, all gear combined, by year, 1911-2001.

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	Information Unavailable		
1926	1,898,000	491,000	2,389,000			
1927	455,000	185,000	640,000			
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	564,000			
1943	428,000	1,356,000	1,784,000			
1944	188,000	264,000	452,000			
1945	218,000	375,000	593,000			
1946	342,000	257,000	599,000			
1947	782,000	229,000	1,011,000			
1948	276,000	126,000	402,000			
1949	84,000	167,000	251,000			
1950	292,000	134,000	426,000			
1951	82,000	35,000	117,000			
1952	191,000	121,000	312,000			
1953	191,000	105,000	296,000			
1954	325,000	49,000	374,000			
1955	315,000	52,000	367,000			
1956	290,000	47,000	337,000			
1957	50,000	44,000	94,000			
1958	104,000	28,000	132,000			
1959	58,000	78,000	136,000			

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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	1,510,373	139,735	1,650,108	391,568	44,909	436,477
1971	422,760	39,341	462,101	405,311	103,886	509,197
1972	426,799	74,398	501,197	411,000	107,810	518,810
1973	222,124	22,964	245,088	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	235,657	72,016	307,673	338,677	74,109	412,786
1977	194,807	45,912	240,719	94,097	21,899	115,996
1978	418,935	67,876	486,811	103,413	18,479	121,892
1979	683,473	182,816	866,289	64,144	43,133	107,277
1980	2,731,148	572,120	3,303,268	458,499	71,330	529,829
1981	1,471,738	350,572	1,822,310	517,201	54,071	571,272
1982	1,670,606	450,578	2,121,184	934,553	161,646	1,096,199
1983	1,545,075	416,494	1,961,569	616,354	169,277	785,631
1984	1,131,473	256,838	1,388,311	227,923	109,207	337,130
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	652,397	140,567	792,964	405,955	37,064	443,019
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	1,088,944	255,585	1,344,529	455,044	63,501	518,545
1991	1,216,068	333,272	1,549,340	670,273	102,602	772,875
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	349,057	195,126	544,183
1996	572,643	456,475	1,029,118	129,987	229,931	359,918
1997	1,179,179	449,002	1,628,181	196,016	126,309	322,325
1998	974,628	314,097	1,288,725	195,454	50,165	245,619
1999	1,106,208	269,191	1,375,399	186,886	58,420	245,306
2000	892,016	359,212	1,251,228	168,888	70,469	239,357
2001	121,547	29,085	150,632	36,099	12,251	48,350
1981-2000 Average						
	1,197,933	367,819	1,565,752	379,189	110,284	489,473
1991-2000 Average						
	1,280,608	431,410	1,712,018	297,680	129,340	427,020



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 salmon fisheries, 1962-2001.

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	<sup>a</sup> Four 13 hour fishing periods per week	<sup>a</sup> Four 13 hour fishing periods per week.
1974	No fishery	No fishery
1975-83	<sup>b</sup> 6.8% of predicted Bristol Bay catch      Bay catch	1.5% of predicted Bristol
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	<sup>b</sup> 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	<sup>b</sup> Same as during 1984-85 for both fisheries.	
1988-89	<sup>b</sup> 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.	

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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	The chum salmon ceiling was increased from 500,000 to 600,000.	
	The "Window Regulations" implemented in 1984 to limit the amount of fishing time that could be allowed were deleted.	
	The season was delayed until June 13 and the time period sockeye allocations for both fisheries were changed as follow:	
	June 13-18	35%
	June 19-25	45%
	June 26-30	20%
	The gear depth for seines was limited to 375 meshes of which mesh size may not exceed 3-1/2 inches except for the first 25 meshes above the lead line which may not exceed 7 inches.	
	The gear depth on gillnets along the South Peninsula was limited to no more than 90 meshes.	
	Seine leads may not exceed 150 fathoms for the entire Alaska Peninsula.	
1992-93	The chum salmon ceiling was increased from 600,000 to 700,000 fish. Fishing time for set gillnet gear could not be less than 16 hours unless a 16 hour period would result in a harvest that exceeded the cap for chum salmon. The other regulations were the same as in effect for 1990 and 1991.	
1994	Sockeye salmon time period allocations eliminated. ADF&G given flexibility to open fishery prior to June 13 if sockeye to chum salmon ratios are favorable.	

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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>	
1998-2000	<p>The chum salmon ceiling was lowered from 700,000 to a GHL (floating cap) that can range between 350,000 and 650,000.</p> <p>A commercial fishery for all gear types may open on June 10 if sockeye to chum salmon ratios are favorable.</p> <p>In South Unimak District the shoreward end of set gillnet must be within one half mile of shore.</p> <p>All salmon caught must be retained and reported.</p> <p>Use of aircraft to locate salmon prohibited for the entire Alaska Peninsula for the entire season.</p>	
2001	<p>Eliminated the sockeye salmon guideline harvest levels.</p> <p>Eliminated the chum salmon guideline harvest levels.</p> <p>Limited fishing time to no more than 16 hours per day by any gear group.</p> <p>Limited total fishing time by seine and drift gillnet gear to no more than 48 hours in a floating seven day period with no more than two 16-hour periods on consecutive days in any seven day period.</p>	

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From June 10 through June 24 in the South Unimak and/or Shumagin Island Fisheries, set gillnet gear may fish on consecutive days for 16-hour fishing periods as long as the set gillnet sockeye to chum salmon ratios in that fishery are equal to or greater than the recent 10-year average for that fishery. If the set gillnet sockeye to chum salmon ratio falls below the recent 10-year average in either fishery, that fishery will be closed for one period. From June 10 through June 24, daily fishing periods for set gillnet gear will be from 6:00 AM until 10:00 PM.

Purse seine and drift gillnet fishing periods through June 24 will occur at the same time in the South Unimak and Shumagin Islands fisheries.

After June 24, in either the South Unimak or Shumagin Islands fishery if the ratio of sockeye to chum salmon by all gear combined is two to one or less on any day, the next fishing period shall be of six hours duration for all gear in that fishery. If the sockeye to chum salmon ratio is two to one or greater, a six-hour fishing period can be extended to a maximum of 16 hours. The South Unimak or Shumagin Islands fishery shall close for all gear groups if the ratio of sockeye to chum salmon is two to one or less for two consecutive fishing periods.

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<sup>a</sup> Both fisheries were closed by emergency order during June 25-28 due to indications of the Bristol Bay run being below escapement requirements.

<sup>b</sup> Each sockeye allocation is broken down into time period guideline harvest levels.

Appendix B.4. South Unimak and Shumagin Islands June fisheries commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	202	2,923	1,016	1,650,108	48	103,053	436,477	2,190,702
1971	166	1,986	828	462,101	1	19,240	509,197	991,367
1972	184	2,098	642	501,197	20	17,924	518,810	1,038,593
1973	141	1,042	247	245,088	28	19,430	200,630	465,423
1974 <sup>a</sup>	0	0	0	0	0	0	0	0
1975	108	510	117	240,099	1	5,247	100,822	346,286
1976	147	1,417	2,135	307,673	3	24,189	412,786	746,786
1977	130	817	521	240,719	0	5,398	115,996	362,634
1978	159	1,569	534	486,811	3	89,942	121,892	699,182
1979	197	1,730	1,065	866,289	430	165,036	107,277	1,140,097
1980	227	2,199	3,269	3,303,268	887	1,606,263	529,829	5,443,516
1981	244	2,404	5,680	1,822,310	322	452,642	571,272	2,852,226
1982	251	2,616	7,141	2,121,184	1,676	1,725,545	1,096,199	4,951,745
1983	281	1,721	13,456	1,961,569	4	55,875	785,631	2,816,535
1984	280	1,118	3,854	1,388,311	14	919,876	337,130	2,649,185
1985	305	2,120	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	2,019	5,163	792,964	380	16,982	443,019	1,258,508
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	320	2,718	10,332	1,344,529	1	515,047	518,545	2,388,454
1991	334	2,027	4,473	1,549,340	37	619,157	772,875	2,945,882
1992	321	1,925	3,760	2,457,856	4	642,090	426,203	3,529,913
1993	327	2,262	9,466	2,973,744	1,233	81,136	532,247	3,597,826
1994	324	2,751	7,590	1,461,263	1,579	2,492,514	582,165	4,545,111
1995	332	2,637	14,747	2,105,321	6,042	178,635	544,183	2,848,928
1996	313	2,677	2,845	1,029,118	13,262	377,684	359,918	1,782,827
1997	292	3,174	5,811	1,628,181	560	605,937	322,325	2,562,814
1998	283	3,657	2,696	1,288,725	476	474,340	245,619	2,011,856
1999	277	2,114	3,051	1,375,399	2	30,539	245,306	1,654,297
2000	278	3,001	2,849	1,251,228	304	360,029	239,357	1,853,767
2001	128	270	345	150,632	2	39,251	48,350	238,580
1981-2000 Average								
	298	2,278	5,870	1,565,752	1,431	516,305	489,473	2,578,831
1991-2000 Average								
	308	2,623	5,729	1,712,018	2,350	586,206	427,020	2,733,322

<sup>a</sup> The South Unimak and Shumagin Island fisheries were closed in 1974 due to a weak Bristol Bay run.

Appendix B.5. South Unimak June commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	176	2,624	868	1,510,373	46	83,325	391,568	1,986,180
1971	147	1,686	549	422,760	0	11,608	405,311	840,228
1972	165	1,773	400	426,799	4	11,906	411,000	850,109
1973	132	922	145	222,124	11	11,152	177,720	411,152
1974	0	0	0	0	0	0	0	0
1975	98	445	101	190,774	1	3,205	65,279	259,360
1976	131	1,216	1,830	235,657	3	18,546	338,677	594,713
1977	118	740	393	194,807	0	3,397	94,097	292,694
1978	140	1,337	267	418,935	3	47,380	103,413	569,998
1979	156	1,319	590	683,473	68	57,174	64,144	805,449
1980	188	1,666	2,927	2,731,148	853	1,140,611	458,499	4,334,038
1981	226	2,100	4,463	1,471,738	85	326,394	517,201	2,319,881
1982	225	2,316	5,585	1,670,606	1,241	1,037,204	934,553	3,649,189
1983	253	1,410	8,179	1,545,075	1	40,441	616,354	2,210,050
1984	226	815	2,024	1,131,473	0	470,688	227,923	1,832,108
1985	255	1,596	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	1,738	4,017	652,397	380	11,342	405,955	1,074,091
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	266	2,133	8,464	1,088,944	1	444,249	455,044	1,996,702
1991	267	1,630	3,066	1,216,068	30	500,942	670,273	2,390,379
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	2,577	7,850	1,451,490	5,102	119,094	349,057	1,932,593
1996	230	1,798	1,228	572,643	11,773	146,799	129,987	862,430
1997	225	2,299	3,041	1,179,179	501	332,262	196,016	1,710,999
1998	196	2,432	1,259	974,628	312	125,906	195,454	1,297,559
1999	224	1,741	2,258	1,106,208	1	20,302	186,886	1,315,655
2000	242	2,587	2,064	892,016	303	210,521	168,888	1,273,792
2001	105	243	134	121,547	2	31,812	36,099	189,594
1981-2000 Average								
	240	1,782	3,739	1,197,933	1,076	325,904	379,189	1,907,841
1991-2000 Average								
	241	2,027	3,219	1,280,608	1,980	372,643	297,680	1,956,130

<sup>a</sup> The South Unimak and Shumagin Island fisheries were closed in 1974 due to a weak Bristol Bay run.

Appendix B.6 Shumagin Islands June commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permit	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
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	48	411	475	182,816	362	107,862	43,133	334,648
1980	64	533	342	572,120	34	465,652	71,330	1,109,478
1981	43	304	1,217	350,572	237	126,248	54,071	532,345
1982	49	300	1,556	450,578	435	688,341	161,646	1,302,556
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
1998	91	1,225	1,437	314,097	164	348,434	50,165	714,297
1999	86	373	793	269,191	1	10,237	58,420	338,642
2000	86	414	785	359,212	1	149,508	70,469	579,975
2001	23	27	211	29,085	0	7,439	12,251	48,986
1981-2000 Average								
	91	545	2,132	367,819	355	190,401	110,284	670,990
1991-2000 Average								
	99	696	2,509	431,410	370	213,563	129,340	777,192

<sup>a</sup> The South Unimak and Shumagin Island fisheries were closed in 1974 due to a weak Bristol Bay run.

Appendix B.7. South Unimak and Shumagin Islands June fisheries, sockeye salmon allocations versus actual commercial harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-2001.

Year	S. Unimak-Shumagin Islands Guideline Harvest Level (GHL)	Actual S. Unimak-Shumagin Is. Harvest	Actual Bristol Bay Harvest	Combined Bristol Bay & S. Unimak-Shumagin Harvest	S. Unimak-Shumagin GHL % of Combined Bristol Bay & S. Unimak-Shumagin Harvest <sup>a</sup>	S. Unimak Shumagin Is. Harvest % of Combined Bristol Bay-S. Unimak Harvest <sup>a</sup>	S. Unimak Shumagin Is. GHL if Actual Bristol Bay Harvest Was Forecasted <sup>a</sup>
1975	215,000	240,099	4,898,814	5,138,913	4.18	4.67	426,530
1976	425,000	307,673	5,619,292	5,926,965	7.17	5.19	491,938
1977	237,000	240,719	4,877,880	5,118,599	4.63	4.70	424,844
1978	522,000	486,811	9,928,139	10,414,950	5.01	4.67	864,441
1979	1,100,000	866,289	21,428,606	22,294,895	4.93	3.89	1,850,476
1980 <sup>b</sup>	3,068,000	3,303,268	23,761,746	27,065,014	11.34	12.20	2,246,396
1981	1,760,000	1,822,310	25,603,081	27,425,391	6.42	6.64	2,276,307
1982	2,258,000	2,121,184	15,104,391	17,225,575	13.11	12.31	1,429,723
1983	1,793,000	1,961,569	37,372,031	39,333,600	4.56	4.99	3,264,689
1984	1,356,000	1,388,311	24,710,306	26,098,617	5.20	5.32	2,166,185
1985	1,685,000	1,791,400	23,702,883	25,494,283	6.61	7.03	2,116,025
1986 <sup>c</sup>	1,107,000	471,397	15,776,056	16,247,453	6.81	2.90	1,348,539
1987	775,000	792,964	16,068,775	16,861,739	4.60	4.70	1,399,524
1988 <sup>c</sup>	1,542,000	756,687	13,989,757	14,746,444	10.46	5.13	1,223,955
1989	1,463,000	1,744,505	28,735,306	30,479,811	4.80	5.72	2,529,824
1990	1,327,000	1,344,529	33,523,127	34,867,656	3.81	3.86	2,894,015
1991 <sup>c</sup>	1,920,000	1,549,340	25,821,180	27,370,520	7.01	5.66	2,271,753
1992	2,391,000	2,457,856	31,879,676	34,337,532	6.96	7.16	2,850,015
1993	2,899,000	2,973,744	40,462,124	43,435,868	6.67	6.85	3,605,177
1994	3,586,000	1,461,263	35,224,050	36,685,313	9.78	3.98	3,044,881
1995	3,646,000	2,105,321	44,266,217	46,371,538	7.86	4.54	3,848,838
1996	3,130,000	1,029,118	29,588,297	30,617,415	10.22	3.36	2,541,245
1997	2,246,000	1,628,181	12,309,000	13,937,181	16.12	11.68	1,156,786
1998	1,865,000	1,288,725	10,035,601	11,324,326	16.47	11.38	939,919
1999	1,250,000	1,375,399	25,824,286	27,199,685	4.60	5.06	2,257,574
2000	2,013,000	1,251,228	20,478,954	21,730,182	9.26	5.76	1,803,605
2001 <sup>d</sup>	<i>1,411,000</i>	<i>150,632</i>	<i>14,003,574</i>	<i>14,154,206</i>	9.97	1.06	<i>1,174,799</i>

<sup>a</sup> These values were calculated by adding the actual Bristol Bay sockeye salmon harvest and the South Unimak and Shumagin Islands June sockeye salmon harvests and calculating the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

<sup>b</sup> The 1980 Bristol Bay sockeye salmon catch would have been much larger had it not been for a lengthy strike.

<sup>c</sup> Sockeye salmon allocations were not reached largely, if not totally, due to a chum cap.

<sup>d</sup> Bristol Bay harvest numbers are preliminary. South Peninsula fishing effort was reduced due to a price dispute that continued throughout June. The fishery is no longer managed based on an allocation and harvest is presented in *italics* to emphasize that it is for comparative purposes only.

Appendix B.8. South Unimak June fishery, sockeye salmon allocations versus actual commercial harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-2001.

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	S. Unimak Harvest % of Combined Bristol Bay- S. Unimak Harvest <sup>a</sup>	S. Unimak GHL if Actual Bristol Bay Harvest Was Forecasted <sup>a</sup>
1975	165,000	190,774	4,898,814	5,138,913	3.21	3.71	349,446
1976	350,000	235,657	5,619,292	5,926,965	5.91	3.98	403,034
1977	195,000	194,807	4,877,880	5,118,599	3.81	3.81	348,065
1978	428,000	418,935	9,928,139	10,414,950	4.11	4.02	708,217
1979	900,000	683,473	21,428,606	22,294,895	4.04	3.07	1,516,053
1980 <sup>b</sup>	2,513,000	2,731,148	23,761,746	27,065,014	9.29	10.09	1,840,421
1981	1,442,000	1,471,738	25,603,081	27,425,391	5.26	5.37	1,864,927
1982	1,850,000	1,670,606	15,104,391	17,225,575	10.74	9.70	1,171,339
1983	1,469,000	1,545,075	37,372,031	39,333,600	3.73	3.93	2,674,685
1984	1,111,000	1,131,473	24,710,306	26,098,617	4.26	4.34	1,774,706
1985	1,380,000	1,454,969	23,702,883	25,494,283	5.41	5.71	1,733,611
1986 <sup>c</sup>	907,000	315,370	15,776,056	16,247,453	5.58	1.94	1,104,827
1987	635,000	652,397	16,068,775	16,861,739	3.77	3.87	1,146,598
1988 <sup>c</sup>	1,263,000	474,457	13,989,757	14,746,444	8.56	3.22	1,002,758
1989	1,199,000	1,347,547	28,735,306	30,479,811	3.93	4.42	2,072,627
1990	1,087,000	1,088,944	33,523,127	34,867,656	3.12	3.12	2,371,001
1991 <sup>c</sup>	1,573,000	1,216,068	25,821,180	27,370,520	5.75	4.44	1,861,195
1992	1,959,000	2,046,022	31,879,676	34,337,532	5.71	5.96	2,334,952
1993	2,375,000	2,366,573	40,462,124	43,435,868	5.47	5.45	2,953,639
1994	2,938,000	1,001,250	35,224,050	36,685,313	8.01	2.73	2,494,601
1995	2,987,000	1,451,490	44,266,217	46,371,538	6.44	3.13	3,153,265
1996	2,564,000	572,643	29,588,297	30,617,415	8.37	1.87	2,081,984
1997	1,840,000	1,179,179	12,158,777	13,937,181	13.20	8.46	947,728
1998	1,529,000	974,628	10,035,601	11,324,326	13.50	8.61	770,054
1999	1,024,000	1,106,208	25,824,286	27,199,685	3.76	4.07	1,849,579
2000	1,650,000	892,016	20,478,954	21,730,182	7.59	4.10	1,477,652
2001 <sup>d</sup>	<i>1,156,000</i>	<i>121,547</i>	<i>14,003,574</i>	<i>14,154,206</i>	<i>8.17</i>	<i>0.86</i>	<i>962,486</i>

<sup>a</sup> These values were calculated by adding the actual Bristol Bay sockeye salmon harvest and the South Unimak and Shumagin Islands June sockeye salmon harvest and calculating the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

<sup>b</sup> The 1980 Bristol Bay sockeye salmon catch would have been much larger had it not been for a lengthy strike.

<sup>c</sup> Sockeye salmon allocations were not reached largely, if not totally, due to a chum cap.

<sup>d</sup> Bristol Bay harvest numbers are preliminary. South Peninsula fishing effort was reduced due to a price dispute that continued throughout June. The fishery is no longer managed based on an allocation and harvest is presented in *italics* to emphasize that it is for comparative purposes only.

Appendix B.9. Shumagin Islands June fishery, sockeye salmon allocations versus actual harvest and allocations if Bristol Bay runs were perfectly forecasted, 1975-2001.

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	Shumagin Is. Harvest % of Combined Bristol Bay-S. Unimak Harvest <sup>a</sup>	Shumagin Is. GHL if Actual Bristol Bay Harvest Was Forecasted <sup>a</sup>
1975	50,000	49,325	4,898,814	5,138,913	0.97	0.96	77,084
1976	75,000	72,016	5,619,292	5,926,965	1.27	1.22	88,904
1977	42,000	45,912	4,877,880	5,118,599	0.82	0.90	76,779
1978	94,000	67,876	9,928,139	10,414,950	0.90	0.65	156,224
1979	200,000	182,816	21,428,606	22,294,895	0.90	0.82	334,423
1980 <sup>b</sup>	555,000	572,120	23,761,746	27,065,014	2.05	2.11	405,975
1981	318,000	350,572	25,603,081	27,425,391	1.16	1.28	411,381
1982	408,000	450,578	15,104,391	17,225,575	2.37	2.62	258,384
1983	324,000	416,494	37,372,031	39,333,600	0.82	1.06	590,004
1984	245,000	256,838	24,710,306	26,098,617	0.94	0.98	391,479
1985	305,000	336,431	23,702,883	25,494,283	1.20	1.32	382,414
1986 <sup>c</sup>	200,000	156,027	15,776,056	16,247,453	1.23	0.96	243,712
1987	140,000	140,567	16,068,775	16,861,739	0.83	0.83	252,926
1988 <sup>c</sup>	279,000	282,230	13,989,757	14,746,444	1.89	1.91	221,197
1989	264,000	396,958	28,735,306	30,479,811	0.87	1.30	457,197
1990	240,000	255,585	33,523,127	34,867,656	0.69	0.73	523,015
1991 <sup>c</sup>	347,000	333,272	25,821,180	27,370,520	1.27	1.22	410,558
1992	432,000	411,834	31,879,676	34,337,532	1.26	1.20	515,063
1993	524,000	607,171	40,462,124	43,435,868	1.21	1.40	651,538
1994	648,000	460,013	35,224,050	36,685,313	1.77	1.25	550,280
1995	659,000	653,831	44,266,217	46,371,538	1.42	1.41	695,573
1996	566,000	456,475	29,588,297	30,617,415	1.85	1.49	459,261
1997	406,000	449,002	12,158,777	13,937,181	2.91	3.22	209,058
1998	336,000	314,097	10,035,601	11,324,326	2.97	2.77	169,865
1999	226,000	269,191	25,824,286	27,199,685	0.83	0.99	407,995
2000	363,000	359,212	20,532,315	21,730,182	1.67	1.65	325,953
2001 <sup>d</sup>	255,000	29,085	14,003,574	14,154,206	1.80	0.21	212,313

<sup>a</sup> These values were calculated by adding the actual Bristol Bay sockeye salmon harvest and the South Unimak and Shumagin Islands June sockeye salmon harvest and calculating the appropriate percentages. Calculations assume all sockeye salmon caught at South Unimak and the Shumagin Islands are destined for Bristol Bay.

<sup>b</sup> The 1980 Bristol Bay sockeye salmon catch would have been much larger had it not been for a lengthy strike.

<sup>c</sup> Sockeye salmon allocations were not reached largely, if not totally, due to a chum salmon cap.

<sup>d</sup> Bristol Bay harvest numbers are preliminary. South Peninsula fishing effort was reduced due to a price dispute that continued throughout June. The fishery is no longer managed based on an allocation and harvest is presented in *italics* to emphasize that it is for comparative purposes only.

Appendix B.10. South Unimak and Shumagin Islands June fisheries, number of fishing days and hours open to commercial fishing by year, 1975-2001.

Year	South Unimak <sup>a</sup>		Shumagin Islands <sup>a</sup>	
	Days	Hours	Days	Hours
1975	10	240	9	207
1976 <sup>b</sup>	19	456	13	312
1977	17	408	11	264
1978	23	552	23	552
1979 <sup>c</sup>	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
1998	18	424	16	346
1999	10	217	6	127
2000	18	426	8	176
2001 <sup>d</sup>				
Average 1980-99	14	296	12	243
Average 1990-99	13	282	11	206

<sup>a</sup> Values are for fishing time allowed for seine and/or drift gillnet gear only. After 1992, set gillnet gear was guaranteed 16 hours per fishing period regardless of the other gear types.

<sup>b</sup> 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.

<sup>c</sup> 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.

<sup>d</sup> Due to lengthy price negotiations and changes in the management plan in 2001, fishing effort was absent during many of the open fishing periods. This makes comparisons of fishing time with past years, in this format, invalid.

Appendix B.11. South Unimak and Shumagin Islands commercial sockeye and chum salmon harvests, all gear combined, by day 2001.

Date	South Unimak			Shumagin Islands			Combined	
	Sockeye	Chum	S/C Ratio	Sockeye	Chum	S/C Ratio	Sockeye	Chum
June 1-9	Closed to commercial salmon fishing.							
10-Jun	a			a				
11-Jun	a			a				
12-Jun	a			a				
13-Jun	a			b	b	b	b	b
14-Jun	a			a				
15-Jun	b	b	b	b	b	b	b	b
16-Jun	a			a				
17-Jun	a			a				
18-Jun	a			a				
19-Jun	a			a				
20-Jun	15,025	4,260	3.5	17,824	7,349	2.4	32,849	11,609
21-Jun	a			a				
22-Jun	a			a				
23-Jun	35,335	9,626	3.7	a			a	a
24-Jun	14,497	4,878	3.0	a			a	a
25-Jun		closed			closed			
26-Jun		closed			closed			
27-Jun	30,963	9,342	3.3	a			a	a
28-Jun		closed		a				
29-Jun		closed		a				
30-Jun	22,860	7,020	3.3	a			a	a
<b>Total</b>	<b>121,547</b>	<b>36,099</b>	<b>3.4</b>	<b>29,085</b>	<b>12,251</b>	<b>2.4</b>	<b>150,632</b>	<b>48,350</b>

<sup>a</sup> Although the fishery was open, no harvest occurred on these days due to ongoing price negotiations.

<sup>b</sup> Confidentiality requirements prohibit releasing this information.

Appendix B.12. South Unimak June commercial salmon harvest, all gear combined, by species and day, 2001.

Catch Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
10-Jun	a							
11-Jun	a							
12-Jun	a							
13-Jun	a							
14-Jun	a							
15-Jun	b	b	b	b	b	b	b	b
16-Jun	a							
17-Jun	a							
18-Jun	a							
19-Jun	a							
20-Jun	72	72	8	15,025	0	646	4,260	19,939
21-Jun	a							
22-Jun	a							
23-Jun	46	49	38	35,335	0	2,095	9,626	47,094
24-Jun	26	32	46	14,497	2	1,617	4,878	21,040
25-Jun	closed							
26-Jun	closed							
27-Jun	35	41	19	30,963	0	11,504	9,342	51,828
28-Jun	closed							
29-Jun	closed							
30-Jun	44	47	11	22,860	0	15,596	7,020	45,487
<b>Total</b>	<b>105</b>	<b>243</b>	<b>134</b>	<b>121,547</b>	<b>2</b>	<b>31,812</b>	<b>36,099</b>	<b>189,942</b>

<sup>a</sup> Although the fishery was open, no harvest occurred on these days due to ongoing price negotiations.

<sup>b</sup> Confidentiality requirements prohibit releasing this information.

Appendix B.13. Shumagin Islands Section commercial salmon harvest, all gear combined, by species and day, 2001.

Catch Date	Number of Salmon							
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	Total
13-Jun	4	4	133	8,422	0	260	2,491	11,306
15-Jun	a	a	a	a	a	a	a	a
20-Jun	21	21	30	17,824	0	6,489	7,349	31,692
9-Jul	9	17	8	3,052	24	412	2,172	5,668
11-Jul	a	a	a	a	a	a	a	a
12-Jul	18	30	12	5,617	277	2,950	4,483	13,339
15-Jul	12	21	4	1,852	434	3,412	1,733	7,435
17-Jul	13	13	115	5,417	11,725	20,818	7,171	45,246
18-Jul	33	49	241	8,642	14,832	35,625	17,337	76,677
20-Jul	9	9	14	1,491	1,646	11,386	3,227	17,764
21-Jul	55	78	112	16,893	24,653	114,178	19,756	175,592
23-Jul	45	61	201	12,376	25,154	90,563	11,550	139,844
24-Jul	47	52	91	9,630	24,393	87,201	15,831	137,146
30-Jul	a	a	a	a	a	a	a	a
1-Aug	30	48	233	4,294	7,522	121,464	8,397	141,910
2-Aug	29	40	266	5,474	10,684	146,975	10,092	173,491
3-Aug	32	39	46	2,035	2,919	55,015	4,450	64,465
6-Aug	16	27	98	2,591	3,467	67,012	3,780	76,948
7-Aug	13	23	58	2,105	1,079	41,129	2,813	47,184
9-Aug	8	12	21	2,088	2,488	39,173	3,457	47,227
10-Aug	8	15	7	3,564	5,163	53,807	4,804	67,345
11-Aug	15	22	54	3,422	3,021	38,112	3,883	48,492
12-Aug	12	18	0	2,231	912	19,389	2,056	24,588
13-Aug	12	18	7	1,889	733	16,265	1,428	20,322
14-Aug	13	18	3	2,274	2,035	41,106	1,416	46,834
1-Sep	6	7	0	1,469	437	0	57	1,963
2-Sep	a	a	a	a	a	a	a	a
3-Sep	a	a	a	a	a	a	a	a
4-Sep	a	a	0	136	111	0	0	247
8-Sep	a	a	a	a	a	a	a	a
9-Sep	a	a	a	a	a	a	a	a
10-Sep	a	a	a	a	a	a	a	a
18-Sep	a	a	a	a	a	a	a	a
Year Total	87	659	1,803	129,536	144,572	1,016,837	142,226	1,434,974
June Total	23	27	211	29,085	0	7,439	12,251	48,986

<sup>a</sup> Confidentiality requirements prohibit releasing this information.

Appendix B.14. Shumagin Islands Section commercial purse seine salmon harvest by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
13-Jun	4 <sup>a</sup>	4 <sup>a</sup>	133 <sup>a</sup>	8,422 <sup>a</sup>	0 <sup>a</sup>	260 <sup>a</sup>	2,491 <sup>a</sup>	11,306 <sup>a</sup>
15-Jun								
20-Jun	12	12	28	13,444	0	6,485	6,500	26,457
17-Jul	8	8	113	5,085	11,653	20,331	6,986	44,168
18-Jul	15	15	241	4,591	13,976	30,211	14,892	63,911
20-Jul	5	5	14	1,094	1,631	10,826	2,945	16,510
21-Jul	23	26	105	10,532	24,319	100,081	13,855	148,892
23-Jul	18	22	194	9,495	24,683	82,311	8,709	125,392
24-Jul	17	18	91	7,390	24,122	79,925	13,949	125,477
30-Jul	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
1-Aug	16	19	231	2,865	7,134	112,584	6,096	128,910
2-Aug	18	19	265	4,257	10,585	140,311	8,428	163,846
3-Aug	21	21	46	968	2,852	47,767	2,699	54,332
6-Aug	10	10	98	1,830	3,248	62,349	2,493	70,018
7-Aug	7	7	58	1,096	991	37,432	1,644	41,221
9-Aug	4	4	21	1,000	2,348	35,157	2,228	40,754
10-Aug	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
11-Aug	7	7	53	1,101	2,706	31,627	1,922	37,409
12-Aug	5	5	0	308	783	15,233	630	16,954
13-Aug	6	6	7	482	641	14,046	846	16,022
14-Aug	8	9	3	785	1,933	38,408	672	41,801
Year								
Total	35	225	1,756	79,993	138,635	918,843	104,231	1,243,458
June								
Total	14	18	209	24,705	0	7,435	11,402	43,751

<sup>a</sup> Confidentiality prohibits releasing this information.

Appendix B.15. Shumagin Islands Section commercial set gillnet salmon harvest by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
20-Jun	9	9	2	4,380	0	4	849	5,235
9-Jul	9	17	8	3,052	24	412	2,172	5,668
11-Jul	a	a	a	a	a	a	a	a
12-Jul	18	30	12	5,617	277	2,950	4,483	13,339
15-Jul	12	21	4	1,852	434	3,412	1,733	7,435
17-Jul	5	5	2	332	72	487	185	1,078
18-Jul	18	34	0	4,051	856	5,414	2,445	12,766
20-Jul	4	4	0	397	15	560	282	1,254
21-Jul	29	45	7	6,160	326	12,959	5,601	25,053
23-Jul	26	38	7	2,848	450	7,939	2,808	14,052
24-Jul	30	34	0	2,240	271	7,276	1,882	11,669
1-Aug	14	29	2	1,429	388	8,880	2,301	13,000
2-Aug	11	21	1	1,217	99	6,664	1,664	9,645
3-Aug	11	18	0	1,067	67	7,248	1,751	10,133
6-Aug	6	17	0	761	219	4,663	1,287	6,930
7-Aug	6	16	0	1,009	88	3,697	1,169	5,963
9-Aug	4	8	0	1,088	140	4,016	1,229	6,473
10-Aug	5	10	0	1,155	133	4,393	969	6,650
11-Aug	8	15	1	2,321	315	6,485	1,961	11,083
12-Aug	7	13	0	1,923	129	4,156	1,426	7,634
13-Aug	5	11	0	1,398	83	2,109	555	4,145
14-Aug	5	9	0	1,489	102	2,698	744	5,033
1-Sep	6	7	0	1,469	437	0	57	1,963
2-Sep	a	a	a	a	a	a	a	a
3-Sep	a	a	a	a	a	a	a	a
4-Sep	a	a	0	136	111	0	0	247
8-Sep	a	a	a	a	a	a	a	a
9-Sep	a	a	a	a	a	a	a	a
10-Sep	a	a	a	a	a	a	a	a
18-Sep	a	a	a	a	a	a	a	a
Year								
Total	51	425	47	49,300	5,899	96,433	37,635	189,314
June								
Total	9	9	2	4,380	0	4	849	5,235

<sup>a</sup> Confidentiality requirements prohibit releasing this information.

Appendix B.16. South Unimak and Shumagin Islands June fisheries commercial sockeye and chum salmon harvests in percent by gear type and year, 1970-2001.

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	0.5	31.0	68.8	0.2	91.8	8.2	94.0	6.0
1971	25.3	74.7	0.0	19.5	80.5	0.0	89.4	10.6	96.8	3.2
1972	12.5	87.5	0.0	9.3	90.7	0.0	96.9	3.1	98.5	1.5
1973	9.6	90.2	0.2	6.6	93.3	0.1	87.3	12.7	94.3	5.7
1974 <sup>a</sup>	--	--	--	--	--	--	--	--	--	--
1975	22.9	77.0	0.1	28.9	71.1	0.0	97.4	2.6	97.4	2.6
1976	17.7	81.9	0.4	14.2	85.7	0.1	95.5	4.5	97.1	2.9
1977	15.2	84.3	0.5	10.5	89.3	0.2	94.9	5.1	99.0	1.0
1978	18.4	81.0	0.6	9.9	90.0	0.1	97.0	3.0	96.3	3.7
1979	70.9	28.9	0.2	31.0	68.8	0.2	92.5	7.5	95.9	4.1
1980	76.4	23.1	0.5	79.2	20.7	0.1	96.4	3.6	96.8	3.2
1981	50.8	47.1	2.1	64.0	35.7	0.3	94.8	5.2	98.7	1.3
1982	54.2	44.6	1.2	46.2	53.6	0.2	97.3	2.7	98.9	1.1
1983	60.5	38.8	0.7	65.9	34.0	0.1	97.4	2.6	99.6	0.4
1984	63.3	35.7	1.0	60.2	39.7	0.1	94.7	5.3	99.3	0.7
1985	61.3	38.0	0.7	38.7	61.1	0.2	94.8	5.2	96.0	4.0
1986	46.7	51.7	1.6	43.8	55.9	0.3	85.0	15.0	95.0	5.0
1987	36.5	61.5	2.0	38.3	61.1	0.6	76.0	24.0	93.4	6.6
1988	29.8	67.0	3.2	33.5	65.8	0.6	72.1	27.9	82.6	17.4
1989	59.4	38.1	2.5	52.1	47.2	0.7	90.9	9.1	93.6	6.4
1990 <sup>b</sup>	56.9	41.5	1.6	57.9	41.8	0.3	85.3	14.7	93.1	6.9
1991	53.5	44.4	2.1	61.2	38.2	0.6	80.6	19.4	93.3	6.7
1992	58.3	37.4	4.3	63.2	35.6	1.2	90.9	9.1	96.3	3.7
1993	59.1	38.1	2.8	66.2	31.6	2.2	87.5	12.5	97.9	2.1
1994	57.3	37.1	5.6	63.9	34.6	1.5	75.4	24.6	96.5	3.5
1995	42.1	54.6	3.3	48.1	49.5	2.4	81.5	18.5	93.7	6.3
1996	22.2	73.7	4.1	31.9	66.3	1.8	75.0	25.0	95.9	4.1
1997	14.8	76.0	9.2	30.1	65.1	4.8	75.5	24.5	93.8	6.2
1998	7.2	87.9	4.9	13.7	83.2	3.1	49.4	50.6	78.7	21.3
1999	21.0	75.7	3.3	28.0	68.9	3.1	74.3	25.7	93.2	6.8
2000	12.9	81.0	6.1	27.7	68.0	4.4	77.4	22.6	94.5	5.5
2001	14.1	78.6	7.3	15.8	79.4	4.8	84.9	15.1	93.1	6.9
1971-80 Average	29.9	69.8	0.3	23.2	76.7	0.1	94.1	5.9	96.9	3.1
1981-90 Average	51.9	46.4	1.7	50.1	49.6	0.3	88.8	11.2	95.0	5.0
1991-2000 Average	34.8	60.6	4.6	43.4	54.1	2.5	76.8	23.3	93.4	6.6

<sup>a</sup> No fishery.

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.17. South Unimak June Fishery commercial sockeye salmon harvests  
in number of fish and percent by gear type and year, 1970-2001.

Year	Purse Seine		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
1970	717,189	47.5	784,956	52.0	8,228	0.5	1,510,373
1971	107,075	25.3	315,685	74.7	0	0.0	422,760
1972	53,173	12.5	373,618	87.5	8	0.0	426,799
1973	21,364	9.6	200,258	90.2	502	0.2	222,124
1974 <sup>a</sup>	0	--	0	--	0	--	0
1975	43,703	22.9	146,918	77.0	153	0.1	190,774
1976	41,774	17.7	192,905	81.9	978	0.4	235,657
1977	29,698	15.2	164,165	84.3	944	0.5	194,807
1978	77,221	18.4	339,295	81.0	2,419	0.6	418,935
1979	484,638	70.9	197,486	28.9	1,349	0.2	683,473
1980	2,086,038	76.4	631,975	23.1	13,135	0.5	2,731,148
1981	746,952	50.8	693,166	47.1	31,620	2.1	1,471,738
1982	905,257	54.2	745,616	44.6	19,733	1.2	1,670,606
1983	935,003	60.5	599,152	38.8	10,920	0.7	1,545,075
1984	716,685	63.3	403,582	35.7	11,206	1.0	1,131,473
1985	891,775	61.3	553,558	38.0	9,636	0.7	1,454,969
1986	147,380	46.7	162,950	51.7	5,040	1.6	315,370
1987	238,193	36.5	401,215	61.5	12,989	2.0	652,397
1988	141,410	29.8	317,818	67.0	15,229	3.2	474,457
1989	800,949	59.4	512,522	38.0	34,076	2.5	1,347,547
1990 <sup>b</sup>	619,391	56.9	452,484	41.6	17,069	1.6	1,088,944
1991	650,461	53.5	539,650	44.4	25,957	2.1	1,216,068
1992	1,192,202	58.3	765,752	37.4	88,068	4.3	2,046,022
1993	1,397,481	59.1	902,788	38.1	66,304	2.8	2,366,573
1994	573,247	57.3	371,103	37.1	56,900	5.7	1,001,250
1995	611,453	42.1	792,940	54.6	47,097	3.2	1,451,490
1996	127,366	22.2	422,030	73.7	23,247	4.1	572,643
1997	174,536	14.8	896,638	76.0	108,005	9.2	1,179,179
1998	70,263	7.2	856,265	87.9	48,100	4.9	974,628
1999	232,779	21.0	836,876	75.7	36,553	3.3	1,106,208
2000	114,831	12.9	722,855	81.0	54,330	6.1	892,016
2001	17,159	14.1	95,547	78.6	8,841	7.3	121,547
1981-2000 Average							
	564,381	43.4	597,448	53.5	36,104	3.1	1,197,933
1991-2000 Average							
	514,462	34.8	710,690	60.6	55,456	4.6	1,280,608

<sup>a</sup> No fishery

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.18. South Unimak June fisheries commercial chum salmon harvests  
by gear type and year, 1970-2001.

Year	Purse Seine <sup>a</sup>		Drift Gillnet		Set Gillnet		Total
	Number	Percent	Number	Percent	Number	Percent	
1970	121,214	31.0	269,476	68.8	878	0.2	391,568
1971	79,044	19.5	326,267	80.5	0	0.0	405,311
1972	38,365	9.3	372,635	90.7	0	0.0	411,000
1973	11,746	6.6	165,753	93.3	221	0.1	177,720
1974 <sup>a</sup>	0	--	0	--	0	--	0
1975	18,833	28.9	46,446	71.1	0	0.0	65,279
1976	48,749	14.4	289,690	85.5	238	0.1	338,677
1977	9,852	10.5	84,052	89.3	193	0.2	94,097
1978	10,210	9.9	93,115	90.0	88	0.1	103,413
1979	19,914	31.0	44,138	68.8	92	0.1	64,144
1980	363,360	79.2	94,900	20.7	239	0.1	458,499
1981	331,142	64.0	184,586	35.7	1,473	0.3	517,201
1982	431,486	46.2	501,282	53.6	1,785	0.2	934,553
1983	405,903	65.9	209,600	34.0	851	0.1	616,354
1984	137,110	60.2	90,498	39.7	315	0.1	227,923
1985	125,813	38.7	198,361	61.1	651	0.2	324,825
1986	110,666	43.8	141,299	55.9	756	0.3	252,721
1987	155,447	38.3	247,934	61.1	2,574	0.6	405,955
1988	155,895	33.5	305,967	65.8	2,903	0.6	464,765
1989	212,310	52.1	192,650	47.3	2,675	0.7	407,635
1990 <sup>b</sup>	263,532	57.9	190,002	41.8	1,510	0.3	455,044
1991	410,034	61.2	256,217	38.2	4,022	0.6	670,273
1992	204,717	63.2	115,401	35.6	3,773	1.2	323,891
1993	252,798	66.2	120,820	31.6	8,323	2.2	381,941
1994	239,286	63.9	129,530	34.6	5,593	1.5	374,409
1995	167,949	48.1	172,715	49.5	8,393	2.4	349,057
1996	41,516	31.9	86,201	66.3	2,270	1.7	129,987
1997	58,999	30.1	127,646	65.1	9,371	4.8	196,016
1998	26,777	13.7	162,566	83.2	6,111	3.1	195,454
1999	52,314	28.0	128,723	68.9	5,849	3.1	186,886
2000	46,728	27.7	114,812	68.0	7,348	4.4	168,888
2001	5,701	15.8	28,651	79.4	1,747	4.8	36,099
1981-2000 Average							
	191,521	46.7	183,841	51.8	3,827	1.4	379,189
1991-2000 Average							
	150,112	43.4	141,463	54.1	6,105	2.5	297,680

<sup>a</sup> No fishery.

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.19. Shumagin Islands June Fishery commercial  
sockeye salmon harvests in number of fish and  
percent by gear type and year, 1970-2001.

Year	Purse Seine		Set Gillnet		Total
	Number	Percent	Number	Percent	
1970	128,408	91.9	11,327	8.1	139,735
1971	35,176	89.4	4,165	10.6	39,341
1972	72,069	96.9	2,329	3.1	74,398
1973	20,047	87.3	2,917	12.7	22,964
1974 <sup>a</sup>	0	--	0	--	0
1975	48,065	97.4	1,260	2.6	49,325
1976	68,755	95.5	3,261	4.5	72,016
1977	43,579	94.9	2,333	5.1	45,912
1978	65,826	97.0	2,050	3.0	67,876
1979	169,176	92.5	13,640	7.5	182,816
1980	551,280	96.4	20,840	3.6	572,120
1981	332,300	94.8	18,272	5.2	350,572
1982	438,450	97.3	12,128	2.7	450,578
1983	405,757	97.4	10,737	2.6	416,494
1984	243,136	94.7	13,702	5.3	256,838
1985	318,878	94.8	17,553	5.2	336,431
1986	132,580	85.0	23,447	15.0	156,027
1987	106,799	76.0	33,768	24.0	140,567
1988	203,391	72.1	78,839	27.9	282,230
1989	360,860	90.9	36,098	9.1	396,958
1990 <sup>b</sup>	217,968	85.3	37,617	14.7	255,585
1991	268,539	80.6	64,733	19.4	333,272
1992	374,258	90.9	37,576	9.1	411,834
1993	531,258	87.5	75,913	12.5	607,171
1994	346,923	75.4	113,090	24.6	460,013
1995	532,952	81.5	120,879	18.5	653,831
1996	342,317	75.0	114,158	25.0	456,475
1997	338,803	75.5	110,199	24.5	449,002
1998	155,216	49.4	158,881	50.6	314,097
1999	200,108	74.3	69,083	25.7	269,191
2000	277,974	77.4	81,238	22.6	359,212
2001	24,705	84.9	4,380	15.1	29,085
1981-2000 Average					
	306,423	82.8	61,396	17.2	367,819
1991-2000 Average					
	336,835	76.7	94,575	23.3	431,410

<sup>a</sup> No fishery.

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.20. Shumagin Islands June fisheries commercial  
chum salmon harvests by gear type and year,  
1970-2001.

Year	Purse Seine <sup>a</sup>		Set Gillnet		Total
	Number	Percent	Number	Percent	
1970	42,226	94.0	2,683	6.0	44,909
1971	100,544	96.8	3,342	3.2	103,886
1972	106,239	98.5	1,571	1.5	107,810
1973	21,605	94.3	1,305	5.7	22,910
1974 <sup>a</sup>	0	0.0	0	0.0	0
1975	34,614	97.4	929	2.6	35,543
1976	71,946	97.1	2,163	2.9	74,109
1977	21,678	99.0	221	1.0	21,899
1978	17,793	96.3	686	3.7	18,479
1979	41,368	95.9	1,765	4.1	43,133
1980	69,014	96.8	2,316	3.2	71,330
1981	53,351	98.7	720	1.3	54,071
1982	159,848	98.9	1,798	1.1	161,646
1983	168,618	99.6	659	0.4	169,277
1984	108,495	99.3	712	0.7	109,207
1985	104,619	96.0	4,385	4.0	109,004
1986	94,080	95.0	4,968	5.0	99,048
1987	34,617	93.4	2,447	6.6	37,064
1988	51,154	82.6	10,792	17.4	61,946
1989	44,498	93.6	3,030	6.4	47,528
1990 <sup>b</sup>	59,111	93.1	4,390	6.9	63,501
1991	95,756	93.3	6,846	6.7	102,602
1992	98,509	96.3	3,803	3.7	102,312
1993	147,160	97.9	3,146	2.1	150,306
1994	200,577	96.5	7,179	3.5	207,756
1995	182,894	93.7	12,232	6.3	195,126
1996	220,449	95.9	9,482	4.1	229,931
1997	118,418	93.8	7,891	6.2	126,309
1998	39,464	78.7	10,701	21.3	50,165
1999	54,439	93.2	3,981	6.8	58,420
2000	66,580	94.5	3,889	5.5	70,469
2001	11,402	93.1	849	6.9	12,251
1981-2000 Average					
	105,132	94.2	5,153	5.8	110,284
1991-2000 Average					
	122,425	93.4	6,915	6.6	129,340

<sup>a</sup> No fishery.

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.21. South Unimak and Shumagin Islands June commercial fisheries sockeye to chum salmon ratios, all gear combined, by location and year, 1960-2001.

Year	South Unimak			Shumagin Islands			Total		
	Sockeye	Chum	Ratio	Sockeye	Chum	Ratio	Sockeye	Chum	Ratio
1960	137,000	84,000	1.6	19,000	11,000	1.7	156,000	95,000	1.6
1961	199,000	157,000	1.3	55,000	36,000	1.5	254,000	193,000	1.3
1962	272,000	209,000	1.3	54,000	61,000	0.9	326,000	270,000	1.2
1963	116,000	36,000	3.2	33,000	36,000	0.9	149,000	72,000	2.1
1964	159,000	161,000	1.0	85,000	67,000	1.3	244,000	228,000	1.1
1965	568,000	121,000	4.7	207,000	45,000	4.6	775,000	166,000	4.7
1966	528,000	215,000	2.5	54,000	17,000	3.2	582,000	232,000	2.5
1967	186,000	73,000	2.5	69,000	51,000	1.4	255,000	124,000	2.1
1968	342,000	115,000	3.0	233,000	51,000	4.6	575,000	166,000	3.5
1969	781,000	254,000	3.1	76,000	13,000	5.8	857,000	267,000	3.2
1970	1,510,373	391,568	3.9	139,735	44,909	3.1	1,650,108	436,477	3.8
1971	422,760	405,311	1.0	39,341	103,886	0.4	462,101	509,197	0.9
1972	426,799	411,000	1.0	74,398	107,810	0.7	501,197	518,810	1.0
1973	222,124	177,720	1.2	22,964	22,910	1.0	245,088	200,630	1.2
1974 <sup>a</sup>	0	0		0	0		0	0	
1975	190,774	65,279	2.9	49,325	35,543	1.4	240,099	100,822	2.4
1976	235,657	338,677	0.7	72,016	74,109	1.0	307,673	412,786	0.7
1977	194,807	94,097	2.1	45,912	21,899	2.1	240,719	115,996	2.1
1978	418,935	103,413	4.1	67,876	18,479	3.7	486,811	121,892	4.0
1979	683,473	64,144	10.7	182,816	43,133	4.2	866,289	107,277	8.1
1980	2,731,148	458,499	6.0	572,120	71,330	8.0	3,303,268	529,829	6.2
1981	1,471,738	517,201	2.8	350,572	54,071	6.5	1,822,310	571,272	3.2
1982	1,670,606	934,553	1.8	450,578	161,646	2.8	2,121,184	1,096,199	1.9
1983	1,545,075	616,354	2.5	416,494	169,277	2.5	1,961,569	785,631	2.5
1984	1,131,473	227,923	5.0	256,838	109,207	2.4	1,388,311	337,130	4.1
1985	1,454,969	324,825	4.5	336,431	109,004	3.1	1,791,400	433,829	4.1
1986	315,370	252,721	1.2	156,027	99,048	1.6	471,397	351,769	1.3
1987	652,397	405,955	1.6	140,567	37,064	3.8	792,964	443,019	1.8
1988	474,457	464,765	1.0	282,230	61,946	4.6	756,687	526,711	1.4
1989	1,347,547	407,635	3.3	396,958	47,528	8.4	1,744,505	455,163	3.8
1990 <sup>b</sup>	1,088,944	455,044	2.4	255,585	63,501	4.0	1,344,529	518,545	2.6
1991	1,216,068	670,273	1.8	333,272	102,602	3.2	1,549,340	772,875	2.0
1992	2,046,022	323,891	6.3	411,834	102,312	4.0	2,457,856	426,203	5.8
1993	2,366,573	381,941	6.2	607,171	150,306	4.0	2,973,744	532,247	5.6
1994	1,001,250	374,409	2.7	460,013	207,756	2.2	1,461,263	582,165	2.5
1995	1,451,490	349,057	4.2	653,831	195,126	3.4	2,105,321	544,183	3.9
1996	572,643	129,987	4.4	456,475	229,931	2.0	1,029,118	359,918	2.9
1997	1,179,179	196,016	6.0	449,002	126,309	3.6	1,628,181	322,325	5.1
1998	974,628	195,454	5.0	314,097	50,165	6.3	1,288,725	245,619	5.2
1999	1,106,208	186,886	5.9	269,191	58,420	4.6	1,375,399	245,306	5.6
2000	892,016	168,888	5.3	359,212	70,469	5.1	1,251,228	239,357	5.2
2001	121,547	36,099	3.4	29,085	12,251	2.4	150,632	48,350	3.1
1981-2000 Average									
	1,197,933	379,189	3.7	367,819	110,284	3.9	1,565,752	489,473	3.5
1991-2000 Average									
	1,280,608	297,680	4.8	431,410	129,340	3.8	1,712,018	427,020	4.4

<sup>a</sup> No Fishery

<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.22. South Unimak and Shumagin Islands June commercial fisheries combined sockeye to chum salmon ratios by location, gear type, and year, 1970-2001.

Year	South Unimak				Shumagin Islands		
	Purse Seine	Drift Gillnet	Set Gillnet	Total	Purse Seine	Set Gillnet	Total
1970	5.9	2.9	9.4	3.9	3.0	4.2	3.1
1971	1.4	1.0	--	1.0	0.3	1.2	0.4
1972	1.4	1.0	--	1.0	0.7	1.5	0.7
1973	1.8	1.2	2.3	1.2	0.9	2.2	1.0
1974 <sup>a</sup>	--	--	--	--	--	--	--
1975	2.3	3.2	--	2.9	1.4	1.4	1.4
1976	0.9	0.7	4.1	0.7	1.0	1.5	1.0
1977	3.0	2.0	4.9	2.1	2.0	10.6	2.1
1978	7.6	3.6	27.5	4.1	3.7	3.0	3.7
1979	24.3	4.5	14.7	10.7	4.1	7.7	4.2
1980	5.7	6.7	55.0	6.0	8.0	9.0	8.0
1981	2.3	3.8	21.5	2.8	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	12.8	2.5	2.4	16.3	2.5
1984	5.2	4.5	35.6	5.0	2.2	19.2	2.4
1985	7.1	2.8	14.8	4.5	3.0	4.0	3.1
1986	1.3	1.2	6.7	1.2	1.4	4.7	1.6
1987	1.5	1.6	5.0	1.6	3.1	13.8	3.8
1988	0.9	1.0	5.2	1.0	4.0	7.3	4.6
1989	3.8	2.7	12.7	3.3	8.1	11.9	8.4
1990 <sup>b</sup>	2.4	2.4	11.3	2.4	3.7	8.6	4.0
1991	1.6	2.1	6.5	1.8	2.8	9.5	3.2
1992	5.8	6.6	23.3	6.3	3.8	9.9	4.0
1993	5.5	7.5	8.0	6.2	3.6	24.1	4.0
1994	2.4	2.9	10.2	2.7	1.7	15.8	2.2
1995	3.6	4.6	5.6	4.2	2.9	9.9	3.4
1996	3.1	4.9	10.2	4.4	1.6	12.0	2.0
1997	3.0	7.0	11.5	6.0	2.9	14.0	3.6
1998	2.6	5.3	7.9	5.0	3.9	14.8	6.3
1999	4.4	6.5	6.2	5.9	3.7	17.4	4.6
2000	2.5	6.3	7.4	5.3	4.2	20.9	5.1
2001	3.0	3.3	5.1	3.4	2.2	5.2	2.4
1981-2000 Average							
	3.2	3.9	11.7	3.7	3.4	13.3	3.9
1991-2000 Average							
	3.5	5.4	9.7	4.8	3.1	14.8	3.8

<sup>a</sup> No fishery.

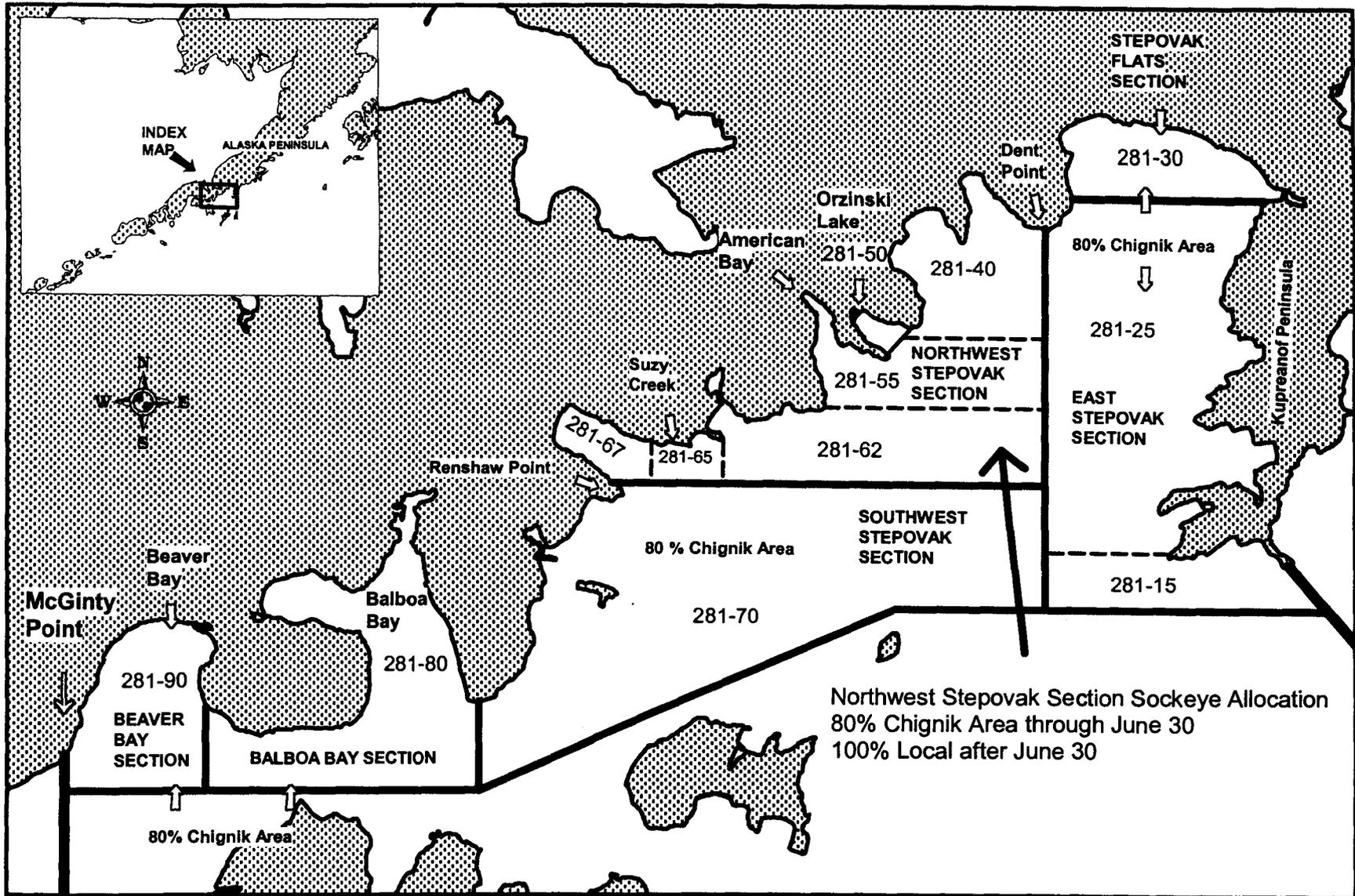
<sup>b</sup> Gear depth limitations in effect beginning in 1990.

Appendix B.23. Number and type of commercial salmon gear in the South Unimak and Shumagin Islands Section waters combined during June, by year, 1970-2001.

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 <sup>b</sup>	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
1998	64	145	74	283
1999	61	152	64	277
2000	70	149	59	278
2001	25	85	18	128
1981-2000 Average	95.3	146.6	56.0	297.8
1991-2000 Average	94.1	146.9	67.1	308.1

<sup>a</sup> 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.

<sup>b</sup> No fishery.



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

Appendix C. 2. Southeastern District Mainland fishery regulatory history, 1970-2001.

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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) After 7/10 entire SEDM managed on local stocks.
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%-1985-87) 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%
1996-97	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%
1998-2001	Beginning July 1, only Orzinski Bay was managed entirely on its local sockeye salmon run. However, all sockeye salmon caught in the Northwest Stepovak Section beginning July 1 were considered 100% local fish and were not counted toward the 6% allocation. The remainder of the SEDM sockeye salmon harvest was allocated as 80% Chignik bound fish. Assures minimum Chignik Management Area harvest of 300,000 sockeye salmon by July 8 and 600,000 by July 25. The maximum allowable fishing time in the Northwest Stepovak Section (excluding Orzinski Bay) during July 1-25 is four days within a seven day period with no more than two consecutive fishing days.

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Appendix C.3. Southeastern District Mainland commercial sockeye  
salmon harvest by gear, through July 25, 1970-2001.

Year	Catch by Gear				Total Catch
	Set Gillnet		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 <sup>a</sup>	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
1998	74,069	63.2	43,062	36.8	117,131
1999	205,706	94.8	11,320	5.2	217,026
2000	199,605	98.6	2,830	1.4	202,435
2001	102,213	95.9	4,394	4.1	106,607
Average 1981-00	192,883	88.0	20,775	12.0	213,659
Average 1991-00	208,758	92.1	13,509	7.9	222,267

<sup>a</sup> Only set gillnet gear is allowed prior to July 11 since 1978 season.

Appendix C.4. Harvest of sockeye salmon considered to be Chignik bound by regulation in the Southeastern District Mainland, by gear, through July 25, 1970-2001.

Year	Catch by Gear				Total Catch
	Set Net		Purse Seine		
	Number	Percent	Number	Percent	
1970 <sup>a</sup>	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	37,240	98.0	743	2.0	37,983
1974	56,263	82.7	11,766	17.3	68,029
1975	1,126	51.1	1,079	48.9	2,205
1976	41,764	93.4	2,966	6.6	44,730
1977	26,473	74.6	9,029	25.4	35,502
1978	20,286	91.9	1,778	8.1	22,064
1979	52,065	91.5	4,813	8.5	56,878
1980	58,210	91.3	5,514	8.7	63,724
1981	107,474	87.7	15,059	12.3	122,533
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 <sup>b</sup>	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 <sup>c</sup>	123,625	97.2	3,576	2.8	127,201
1997	0	0.0	0	0.0	0
1998 <sup>d</sup>	32,455	48.5	34,438	51.5	66,893
1999	164,565	94.8	9,056	5.2	173,621
2000	101,433	98.1	1,986	1.9	103,419
2001 <sup>e</sup>	47,626	93.1	3,515	6.9	51,141
Average					
1981-2000	105,718	83.7	13,350	11.3	119,068
1991-2000	99,343	76.0	14,439	14.0	110,206

-Continued-

<sup>a</sup> 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.

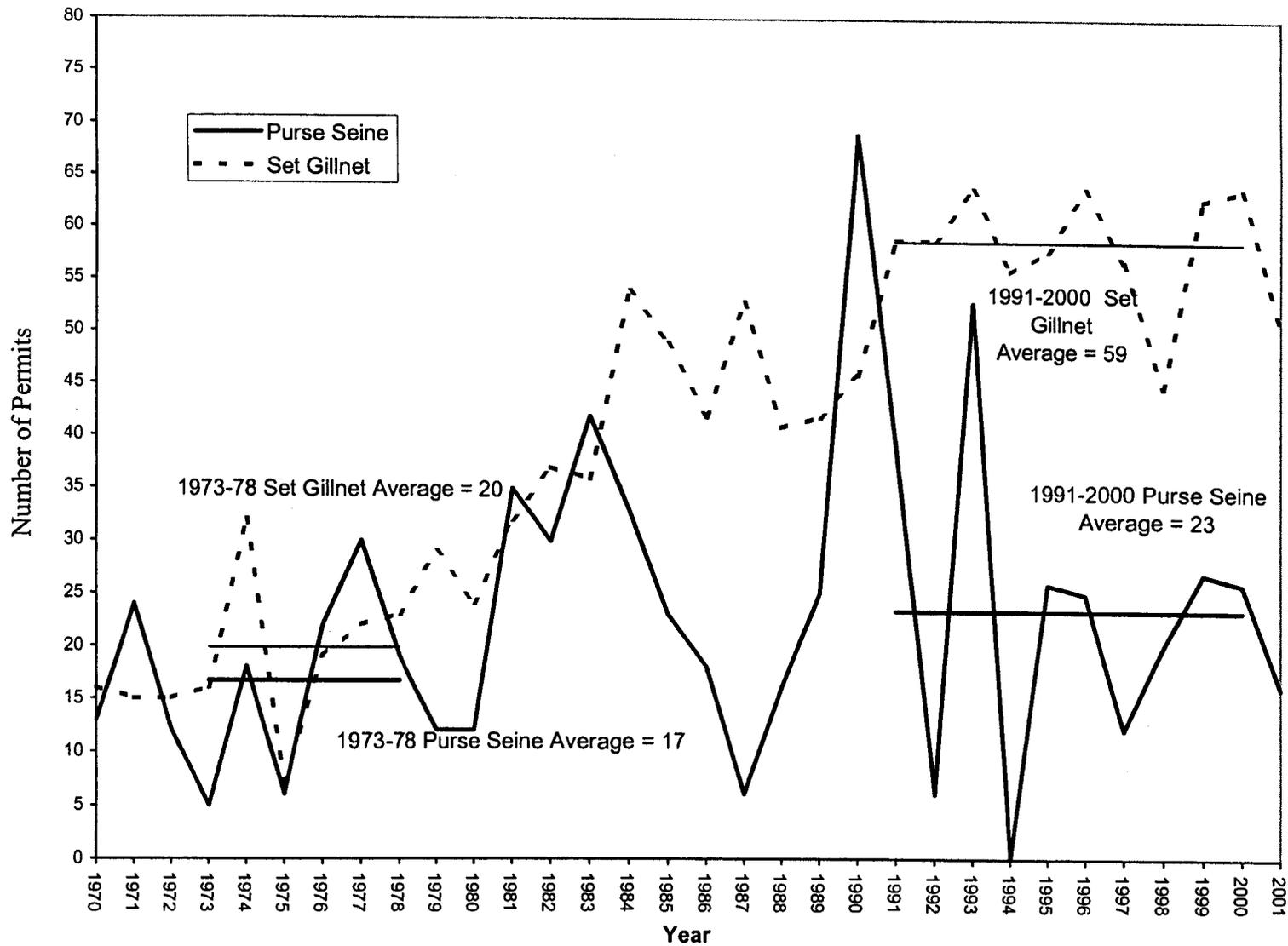
<sup>b</sup> From 1992-95, the Chignik contribution is 80% of the sockeye salmon harvested in the Southeastern District Mainland (SEDM) fishery except Orzinski Bay where 100% of the sockeye salmon are considered local production.

<sup>c</sup> In 1996, the area to be managed for local Orzinski Lake sockeye salmon was increased 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 would 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.

<sup>d</sup> In 1998, the area managed entirely for local Orzinski Lake sockeye salmon was reduced from the entire Northwest Stepovak Section to only Orzinski Bay. All sockeye salmon caught in the Northwest Stepovak Section beginning July 1 would still be considered 100% local fish and not counted toward the 6% allocation. The remainder of SEDM sockeye salmon harvest was allocated as 80% Chignik bound fish. Assures minimum harvest of 600,000 sockeye salmon in Chignik through July 25.

<sup>e</sup> Actual harvest only. Does not include harvest foregone during the strike.

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Appendix C.5. Southeastern District Mainland CFEC permits fished by gear through July 25, 1970-2001.

Appendix C.6. Harvest of sockeye salmon considered to be Chignik bound by regulation in the Chignik, Cape Igvak, and Southeastern District Mainland Areas from 1964-2001.

Year	Chignik Area <sup>a</sup>		Cape Igvak <sup>a</sup>		Southeastern District Mainland Area <sup>a</sup>		Total
	Catch	Percent	Catch	Percent	Catch	Percent	
1964 <sup>b</sup>	556,890	90.6	14,980	2.4	43,021	7.0	614,891
1965	599,553	89.9	11,021	1.7	56,020	8.4	666,594
1966	219,794	88.0	18,003	7.2	12,011	4.8	249,808
1967	462,000	91.5	23,014	4.6	20,021	4.0	505,035
1968	977,382	82.5	135,951	11.5	70,959	6.0	1,184,292
1969	394,135	79.0	97,982	19.6	7,013	1.4	499,130
1970 <sup>c</sup>	1,325,734	72.5	434,394	23.8	68,181	3.7	1,828,309
1971	1,016,136	80.3	197,614	15.6	51,272	4.1	1,265,022
1972	378,218	88.0	33,865	7.9	17,752	4.1	429,835
1964-72 catch and percentage figures are total for the entire season. Catch figures and percentages after 1972 are only through July 25.							
1973 <sup>d</sup>	769,258	89.0	57,348	6.6	37,983	4.4	864,589
1974	530,278	73.6	122,071	16.9	68,029	9.4	720,378
1975	115,984	81.8	23,635	16.7	2,205	1.6	141,824
1976	792,024	83.0	117,926	12.4	44,730	4.7	954,680
1977	1,547,285	90.4	128,852	7.5	35,502	2.1	1,711,639
1978 <sup>e,f</sup>	1,454,389	85.4	227,014	13.3	22,064	1.3	1,703,467
1979 <sup>g</sup>	794,504	91.8	13,950	1.6	56,878	6.6	865,332
1980	670,001	91.3	32	0.0	63,724	8.7	733,757
1981	1,606,300	79.9	282,727	14.1	122,533	6.1	2,011,560
1982	1,250,768	84.5	167,401	11.3	62,767	4.2	1,480,936
1983	1,450,832	72.7	318,048	15.9	227,392	11.4	1,996,272
1984	2,474,405	73.9	449,372	13.4	423,068	12.6	3,346,845
1985 <sup>h</sup>	696,169	79.9	123,627	14.2	51,421	5.9	871,217
1986	1,456,729	82.6	188,017	10.7	118,006	6.7	1,762,752
1987	1,659,615	78.0	321,506	15.1	146,886	6.9	2,128,007
1988	675,487	95.7	11,218	1.6	19,320	2.7	706,025
1989	496,044	99.1	0	0.0	4,485	0.9	500,529
1990	1,205,575	83.6	107,706	7.5	128,599	8.9	1,441,880
1991 <sup>i</sup>	1,958,954	80.4	324,329	13.3	152,714	6.3	2,435,997
1992 <sup>j</sup>	1,054,309	81.1	152,358	11.7	93,845	7.2	1,300,512
1993	1,495,098	77.7	300,055	15.6	128,536	6.7	1,923,689
1994 <sup>k</sup>	1,632,435	80.6	250,230	12.4	142,350	7.0	2,025,015
1995	1,024,785	79.9	169,530	13.2	88,302	6.9	1,282,617
1996 <sup>l</sup>	1,710,249	79.7	308,327	14.4	127,201	5.9	2,145,777
1997	443,892	100.0	0	0.0	0	0.0	443,892
1998 <sup>m,n</sup>	786,466	91.2	8,813	1.0	66,893	7.8	862,172
1999	2,326,811	78.7	456,147	15.4	173,621	5.9	2,956,579
2000	1,509,652	80.1	272,808	14.5	103,419	5.5	1,885,879
2001 <sup>o</sup>	1,145,840	79.6	215,214	14.9	79,037	5.5	1,440,091
Averages							
1979-82	1,080,393	86.9	116,028	6.7	76,476	6.4	1,272,896
1985-1991	1,164,082	85.6	153,772	8.9	88,776	5.5	1,406,630
1992-2000	1,331,522	83.2	213,141	10.9	102,685	5.9	1,647,348

-Footnotes On Following Pages-

- <sup>a</sup> The Cape Igvak and Southeastern District Mainland (SEDM) figures represent 80% of the total sockeye salmon catches for those areas based on the premise that 80% of the sockeye salmon caught in the Cape Igvak Section and the SEDM (excluding sockeye salmon caught in Northwest Stepovak Section from 1964-1991 and 1996-2000 and in Orzinski Bay only from 1992-1995) are bound for the Chignik Management Area (CMA).
- <sup>b</sup> The data from 1964-1972 are based on total yearly catches. Prior to 1974, Cape Igvak and Southeastern District Mainland fisheries were set by regulation to weekly fishing periods, usually five days per week. Time modifications were implemented when poor escapements occurred at Chignik.
- <sup>c</sup> Catches (1970-1992) were updated using historical electronic fish ticket databases.
- <sup>d</sup> During 1974-1977 all three fisheries were managed on a day by day basis.
- <sup>e</sup> From 1978-1991, the Cape Igvak Fishery management Plan allocated 15 percent of the total sockeye salmon catch destined for Chignik.
- <sup>f</sup> During 1978, seining prior to July 11 was disallowed in the SEDM. Set gillnet fishers were allowed to fish three days per week through July 10, after which the fishery was managed on the basis of local stocks.
- <sup>g</sup> During 1979-1984 and prior to July 11, fishing was allowed five days per week in the Southeastern District Mainland Area with a maximum harvest 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 maximum harvest was to be dropped.
- <sup>h</sup> Beginning in 1985, the SEDM was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye catch through July 25. After July 25, the SEDM 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.
- <sup>i</sup> CMA harvest includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' price dispute (Jun 23-Jul 4, 1991).
- <sup>j</sup> Review of Orzinski Lake historical and current escapement records led the Board of Fisheries (BOF) to redefine the SEDM Management Plan. Beginning in 1992, the SEDM fishery (excluding Orzinski Bay) was placed on an allocation of 7.0 percent of the total estimated Chignik sockeye salmon catch through July 25.

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<sup>k</sup> CMA harvest includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area seiners' strike (June 22-June 25, 1994).

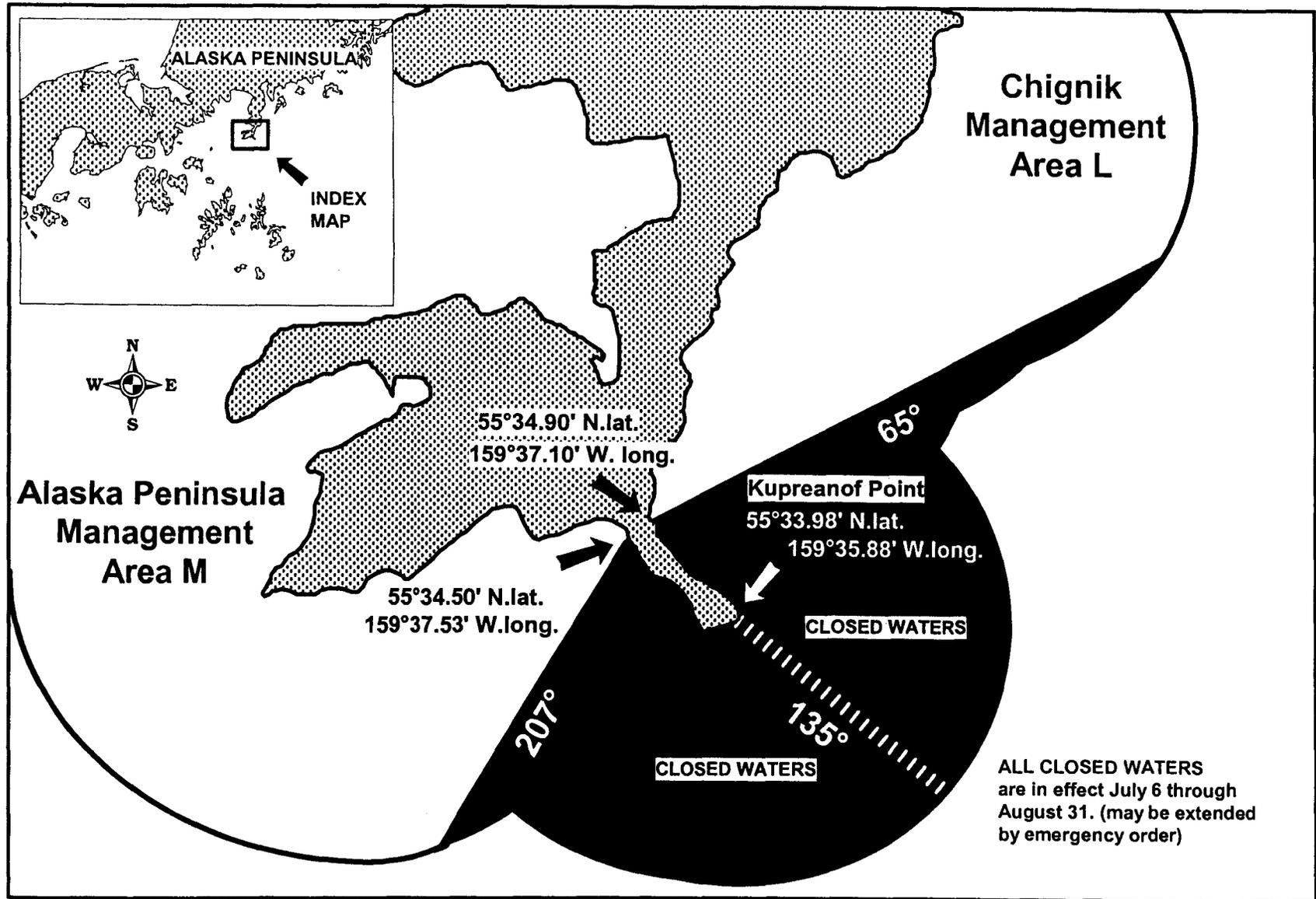
<sup>l</sup> In 1996, the area to be managed for local Orzinski Lake sockeye salmon was increased from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section will be managed on an allocation based on the strength of the Chignik sockeye salmon 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 salmon harvest in the SEDM fishery.

<sup>m</sup> In 1998, the area managed entirely for local Orzinski Lake sockeye salmon was reduced from the entire Northwest Stepovak Section to only Orzinski Bay. All sockeye salmon caught in the Northwest Stepovak Section beginning July 1 would still be considered 100% local fish and not counted toward the 6% allocation. The remainder of SEDM sockeye salmon harvest allocated as 80% Chignik bound fish. Assures minimum harvest of 600,000 sockeye salmon in Chignik through July 25.

<sup>n</sup> CMA harvest includes 7,714 sockeye salmon caught by the Chignik Seiners Association (CSA), and an overescapement of 52,131 sockeye salmon counted past the weir during the CSA boycott (June 16-29, 1998).

<sup>o</sup> CMA harvest includes a foregone harvest of 398,887 sockeye salmon which escaped past the weir as a result of the fishermen's strike (in the CMA). SEDM harvest includes a foregone harvest of 27,896 sockeye salmon which escaped past the weir as a result of the fishermen's strike (In the SEDM).

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Appendix C.7. Map of Kupreanof Point area with closed waters defined.

Appendix C.8. Southeastern District Mainland commercial fishing effort and assignment of sockeye salmon harvests June 1- July 25, 1985-2001.

Year	Effort				Northwest Stepovak			SEDM minus Northwest Stepovak		SEDM		Total Catch
	Gillnet		Seine		Total	"Local"	"Non-local"	"Local"	"Non-local"	"Local"	"Non-local"	
	Permits	Landings	Permits	Landings								
1985 <sup>a</sup>	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	42	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 <sup>b</sup>	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 <sup>c</sup>	64	1,164	25	46	137,925	127,645	10,280	29,230	116,921	156,875	127,201	284,076
1997	57	1,173	12	23	304,865	304,865	0	0	0	304,865	0	304,865
1998	45	340	18	23	33,515	33,515	0	16,723	66,893	50,238	66,893	117,131
1999	63	649	27	30	32,884	6,577	26,307	36,828	147,313	43,405	173,621	217,026
2000	64	1,163	26	31	89,857	76,500	13,357	22,516	90,062	99,016	103,419	202,435
2001	51	551	16	20	42,681	42,681	0	12,785	51,141	55,466	51,141	106,607
Average:												
1985-91	47	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
1998-2000	57	717	24	28	52,085	38,864	13,221	25,356	101,423	64,220	114,644	178,864

<sup>a</sup> From 1970 through 1991, the Chignik contribution is 80% of the sockeye salmon harvested in the Beaver Bay, Balboa Bay, Southwest Stepovak, Stepovak Flats, and East Stepovak Sections.

<sup>b</sup> From 1992 through 1995, the Chignik contribution is 80% of the sockeye salmon harvested in the Southeastern District Mainland (SEDM) fishery, except Orzinski Bay where 100% of the sockeye salmon are considered local production.

<sup>c</sup> From 1996 through 2001, the Chignik contribution is 80% of the sockeye salmon harvested in the SEDM fishery, except beginning July 1, in the Northwest Stepovak Section where 100% of the sockeye salmon are considered local production.

Appendix C.9. Northwest Stepovak Section commercial salmon harvest, all gear combined, by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1-Jul	a	a	a	a	a	a	a	a
2-Jul	a	a	a	a	a	a	a	a
3-Jul	a	a	a	a	a	a	a	a
8-Jul	9	11	0	2,915	8	148	491	3,562
9-Jul	12	19	5	7,076	10	374	1,022	8,487
10-Jul	12	23	8	5,431	5	457	1,547	7,448
12-Jul	8	8	0	1,721	3	244	628	2,596
13-Jul	16	36	2	5,991	12	1,363	2,931	10,299
14-Jul	17	30	0	3,837	12	609	1,833	6,291
17-Jul	17	22	0	1,413	3	571	926	2,913
18-Jul	19	36	2	4,091	15	1,931	2,197	8,236
19-Jul	13	17	2	1,698	4	674	1,163	3,541
20-Jul	a	a	a	a	a	a	a	a
21-Jul	7	7	2	280	3	629	308	1,222
22-Jul	24	40	1	1,587	12	6,268	3,483	11,351
23-Jul	12	20	1	988	10	1,957	1,044	4,000
26-Jul	a	a	a	a	a	a	a	a
27-Jul	a	a	a	a	a	a	a	a
30-Jul	13	18	0	666	14	41,395	4,368	46,443
1-Aug	a	a	a	a	a	a	a	a
2-Aug	a	a	a	a	a	a	a	a
3-Aug	a	a	a	a	a	a	a	a
6-Aug	7	10	0	538	16	16,951	6,989	24,494
7-Aug	6	10	0	846	31	11,438	2,714	15,029
11-Aug	a	a	a	a	a	a	a	a
12-Aug	5	5	0	159	25	16,663	894	17,741
13-Aug	a	a	a	a	a	a	a	a
14-Aug	6	9	6	115	136	65,974	1,013	67,244
1-Sep	a	a	a	a	a	a	a	a
2-Sep	a	a	a	a	a	a	a	a
3-Sep	a	a	a	a	a	a	a	a
8-Sep	a	a	a	a	a	a	a	a
9-Sep	a	a	a	a	a	a	a	a
10-Sep	a	a	a	a	a	a	a	a
19-Sep	a	a	a	a	a	a	a	a
<b>Total</b>	<b>51</b>	<b>386</b>	<b>35</b>	<b>54,836</b>	<b>2,139</b>	<b>204,671</b>	<b>38,793</b>	<b>300,474</b>
<b>Total July 1-25</b>	<b>31</b>	<b>290</b>	<b>25</b>	<b>42,681</b>	<b>97</b>	<b>15,361</b>	<b>17,859</b>	<b>76,023</b>

<sup>a</sup>Confidentiality requirements prohibit releasing this information.

Appendix C.10. Southeastern District Mainland commercial salmon harvest, all gear combined, by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
25-Jun	a	a	a	a	a	a	a	a
1-Jul	a	a	a	a	a	a	a	a
2-Jul	a	a	a	a	a	a	a	a
3-Jul	a	a	a	a	a	a	a	a
8-Jul	22	24	5	4,901	31	525	1,309	6,771
9-Jul	38	74	20	22,345	100	2,411	6,493	31,369
10-Jul	44	77	37	21,122	150	2,691	7,274	31,274
12-Jul	29	29	29	5,686	139	6,029	4,540	16,423
13-Jul	52	109	53	19,845	395	8,245	11,445	39,983
14-Jul	55	94	23	14,686	452	10,153	9,672	34,986
17-Jul	17	22	0	1,413	3	571	926	2,913
18-Jul	19	36	2	4,091	15	1,931	2,197	8,236
19-Jul	13	17	2	1,698	4	674	1,163	3,541
20-Jul	a	a	a	a	a	a	a	a
21-Jul	7	7	2	280	3	629	308	1,222
22-Jul	24	40	1	1,587	12	6,268	3,483	11,351
23-Jul	12	20	1	988	10	1,957	1,044	4,000
26-Jul	43	52	31	2,274	849	37,260	20,438	60,852
27-Jul	48	56	14	3,919	759	35,657	5,028	45,377
30-Jul	50	81	4	5,031	800	161,208	18,042	185,085
1-Aug	18	39	4	3,551	584	63,268	6,934	74,341
2-Aug	24	36	1	3,538	525	98,257	6,585	108,906
3-Aug	17	27	20	3,318	991	41,702	8,926	54,957
6-Aug	27	40	3	4,479	1,048	63,088	17,426	86,044
7-Aug	27	43	28	6,598	1,126	74,331	11,612	93,695
9-Aug	15	25	1	5,527	778	32,254	8,870	47,430
10-Aug	28	43	16	11,912	1,654	123,093	14,719	151,394
11-Aug	21	29	5	6,297	1,352	53,979	5,989	67,622
12-Aug	20	27	2	4,824	669	31,513	3,806	40,814
13-Aug	14	15	4	6,046	1,442	35,895	3,863	47,250
14-Aug	24	35	9	6,363	982	85,179	3,653	96,186
1-Sep	22	47	0	10,319	1,809	614	702	13,444
2-Sep	24	40	1	10,131	1,883	843	805	13,663
3-Sep	19	27	0	8,345	1,377	175	419	10,316
4-Sep	19	29	0	6,866	1,058	192	234	8,350
8-Sep	21	24	0	4,542	797	0	73	5,412
9-Sep	21	37	3	11,340	1,877	0	212	13,432
10-Sep	20	28	0	7,592	1,037	0	174	8,803
15-Sep	10	10	0	2,178	236	0	17	2,431
16-Sep	14	18	0	3,849	579	0	32	4,460
17-Sep	15	22	4	7,497	1,228	0	51	8,780
18-Sep	14	28	7	10,026	1,867	0	29	11,929

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Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
19-Sep	13	25	0	5,598	783	0	7	6,388
22-Sep	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
23-Sep	5	5	0	635	162	0	0	797
24-Sep	5	5	0	2,487	549	0	0	3,036
<b>Total</b>	<b>96</b>	<b>1,467</b>	<b>334</b>	<b>272,011</b>	<b>30,130</b>	<b>980,728</b>	<b>188,857</b>	<b>1,472,060</b>
Subtotals through July 25								
	67	571	177	106,607	1,314	42,220	50,211	200,529
Subtotals from September 1 - 24								
	31	348	15	91,727	15,257	1,824	2,755	111,578

<sup>a</sup>Confidentiality requirements prohibit releasing this information.

Appendix C.11. Southeastern District Mainland commercial purse seine salmon harvest by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
12-Jul	7	7	29	2,227	108	5,165	3,030	10,559
13-Jul	5	5	23	832	25	2,549	799	4,228
14-Jul	6	6	12	1,335	35	4,853	1,366	7,601
22-Jul	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
26-Jul	13	13	22	650	456	30,265	18,351	49,744
27-Jul	11	11	11	872	313	22,847	1,286	25,329
30-Jul	22	25	4	1,122	243	144,431	12,231	158,031
1-Aug	4	7	3	751	129	53,716	2,276	56,875
2-Aug	9	10	0	576	253	85,364	3,237	89,430
3-Aug	5	5	13	349	176	29,345	4,540	34,423
6-Aug	11	11	0	510	151	50,709	12,024	63,394
7-Aug	11	11	28	1,044	375	57,511	5,843	64,801
9-Aug	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
10-Aug	15	16	15	5,359	1,118	109,992	9,985	126,469
11-Aug	8	9	1	630	692	40,957	2,292	44,572
12-Aug	7	7	0	427	218	21,857	1,061	23,563
13-Aug	5	5	4	2,240	1,197	30,115	1,630	35,186
14-Aug	9	12	8	1,024	558	78,006	1,616	81,212
<b>Total</b>	<b>36</b>	<b>165</b>	<b>174</b>	<b>21,514</b>	<b>6,365</b>	<b>793,290</b>	<b>86,278</b>	<b>907,621</b>
Through July 25	16	20	64	4,394	168	14,430	6,249	25,305

<sup>a</sup>Confidentiality requirements prohibit releasing this information.

Appendix C.12 Southeastern District Mainland commercial set gillnet salmon harvest  
by species and day, 2001.

Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
25-Jun	a	a	a	a	a	a	a	a
1-Jul	a	a	a	a	a	a	a	a
2-Jul	a	a	a	a	a	a	a	a
3-Jul	a	a	a	a	a	a	a	a
8-Jul	22	24	5	4,901	31	525	1,309	6,771
9-Jul	38	74	20	22,345	100	2,411	6,493	31,369
10-Jul	44	77	37	21,122	150	2,691	7,274	31,274
12-Jul	22	22	0	3,459	31	864	1,510	5,864
13-Jul	47	104	30	19,013	370	5,696	10,646	35,755
14-Jul	49	88	11	13,351	417	5,300	8,306	27,385
17-Jul	17	22	0	1,413	3	571	926	2,913
18-Jul	19	36	2	4,091	15	1,931	2,197	8,236
19-Jul	13	17	2	1,698	4	674	1,163	3,541
20-Jul	a	a	a	a	a	a	a	a
21-Jul	7	7	2	280	3	629	308	1,222
22-Jul	22	38	1	1,587	12	4,405	2,429	8,434
23-Jul	12	20	1	988	10	1,957	1,044	4,000
26-Jul	30	39	9	1,624	393	6,995	2,087	11,108
27-Jul	37	45	3	3,047	446	12,810	3,742	20,048
30-Jul	28	56	0	3,909	557	16,777	5,811	27,054
1-Aug	14	32	1	2,800	455	9,552	4,658	17,466
2-Aug	15	26	1	2,962	272	12,893	3,348	19,476
3-Aug	12	22	7	2,969	815	12,357	4,386	20,534
6-Aug	16	29	3	3,969	897	12,379	5,402	22,650
7-Aug	16	32	0	5,554	751	16,820	5,769	28,894
9-Aug	12	22	0	3,961	460	8,509	5,213	18,143
10-Aug	13	27	1	6,553	536	13,101	4,734	24,925
11-Aug	13	20	4	5,667	660	13,022	3,697	23,050
12-Aug	13	20	2	4,397	451	9,656	2,745	17,251
13-Aug	9	10	0	3,806	245	5,780	2,233	12,064
14-Aug	15	23	1	5,339	424	7,173	2,037	14,974
1-Sep	22	47	0	10,319	1,809	614	702	13,444
2-Sep	24	40	1	10,131	1,883	843	805	13,663
3-Sep	19	27	0	8,345	1,377	175	419	10,316
4-Sep	19	29	0	6,866	1,058	192	234	8,350
8-Sep	21	24	0	4,542	797	0	73	5,412
9-Sep	21	37	3	11,340	1,877	0	212	13,432
10-Sep	20	28	0	7,592	1,037	0	174	8,803
15-Sep	10	10	0	2,178	236	0	17	2,431
16-Sep	14	18	0	3,849	579	0	32	4,460
17-Sep	15	22	4	7,497	1,228	0	51	8,780
18-Sep	14	28	7	10,026	1,867	0	29	11,929

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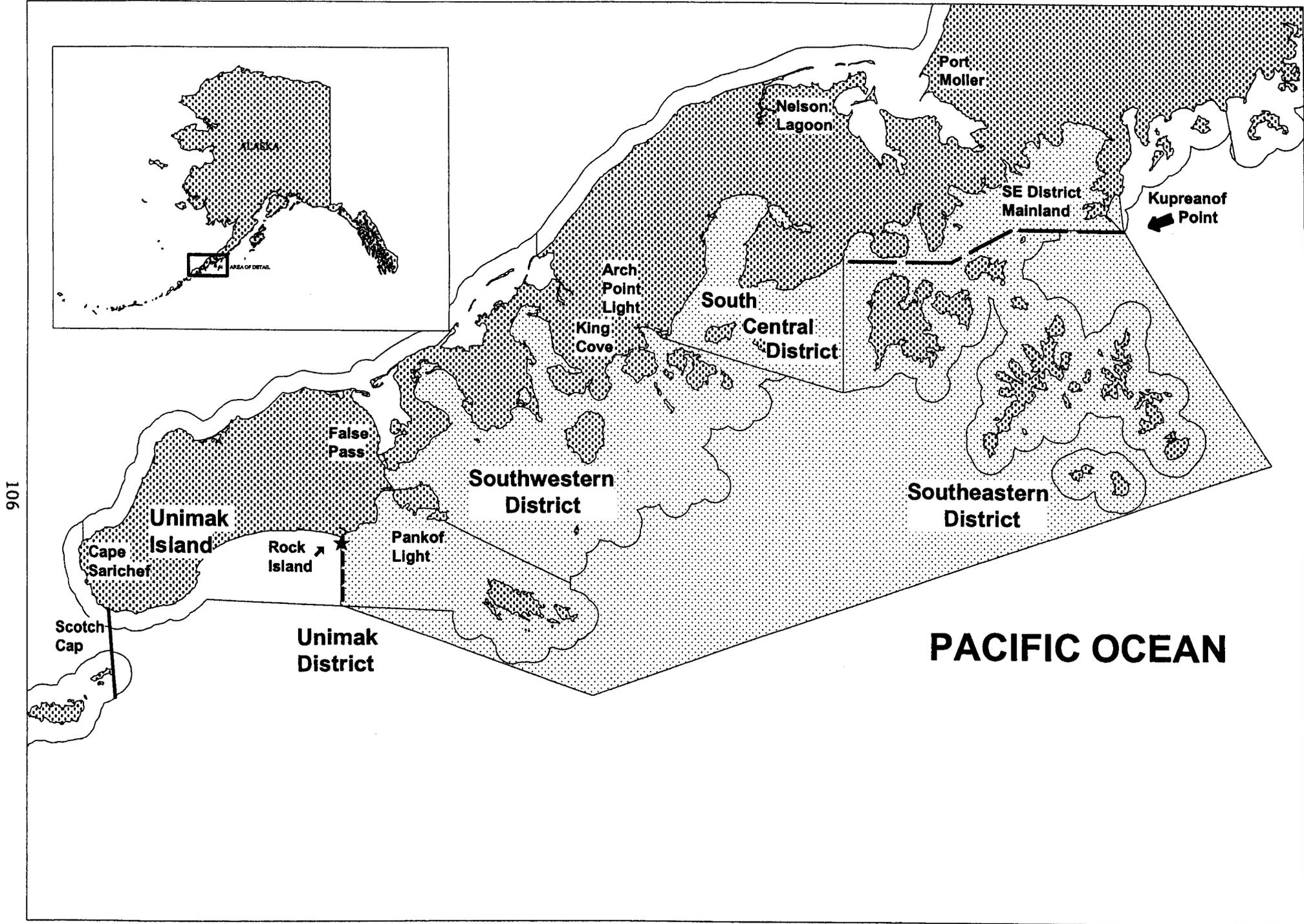
Date	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
19-Sep	13	25	0	5,598	783	0	7	6,388
22-Sep	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
23-Sep	5	5	0	635	162	0	0	797
24-Sep	5	5	0	2,487	549	0	0	3,036
<b>Total</b>	<b>60</b>	<b>1,302</b>	<b>160</b>	<b>250,497</b>	<b>23,765</b>	<b>187,438</b>	<b>102,579</b>	<b>564,439</b>
<b>Subtotal through July 25</b>	<b>51</b>	<b>551</b>	<b>113</b>	<b>102,213</b>	<b>1,146</b>	<b>27,790</b>	<b>43,962</b>	<b>175,224</b>

<sup>a</sup>Confidentiality requirements prohibit releasing this information.

Appendix C.13. Southeastern District Mainland commercial sockeye salmon harvest, by gear, for the entire season, 1970-2001.

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 <sup>a</sup>	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
1998	204,626	73.4	74,164	26.6	278,790
1999	409,636	89.5	47,929	10.5	457,565
2000	283,591	92.7	22,401	7.3	305,992
2001	250,497	92.1	21,514	7.9	272,011
Average 1981-2000					
	271,785	83.8	50,672	16.2	322,456
Average 1991-2000					
	312,790	86.7	46,780	13.3	359,570

<sup>a</sup> Set gillnet gear only prior to July 11 since the 1978 season.



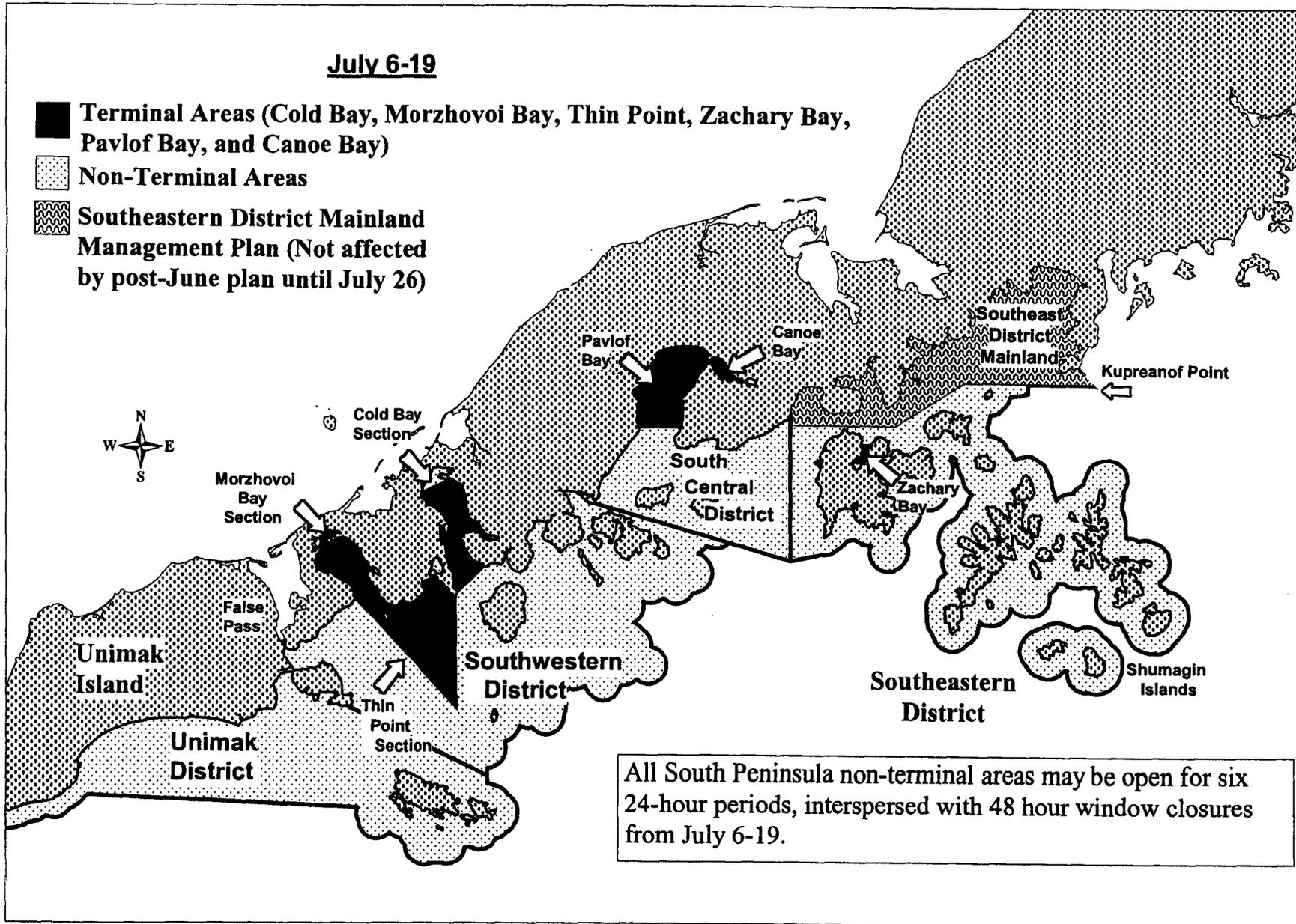
Appendix D.1. Map of the South Peninsula from Kupreanof Point to Scotch Cap with the general post-June fishing area (Rock Island - Kupreanof Point) and the Southeastern District Mainland area shown.

**July 6-19**

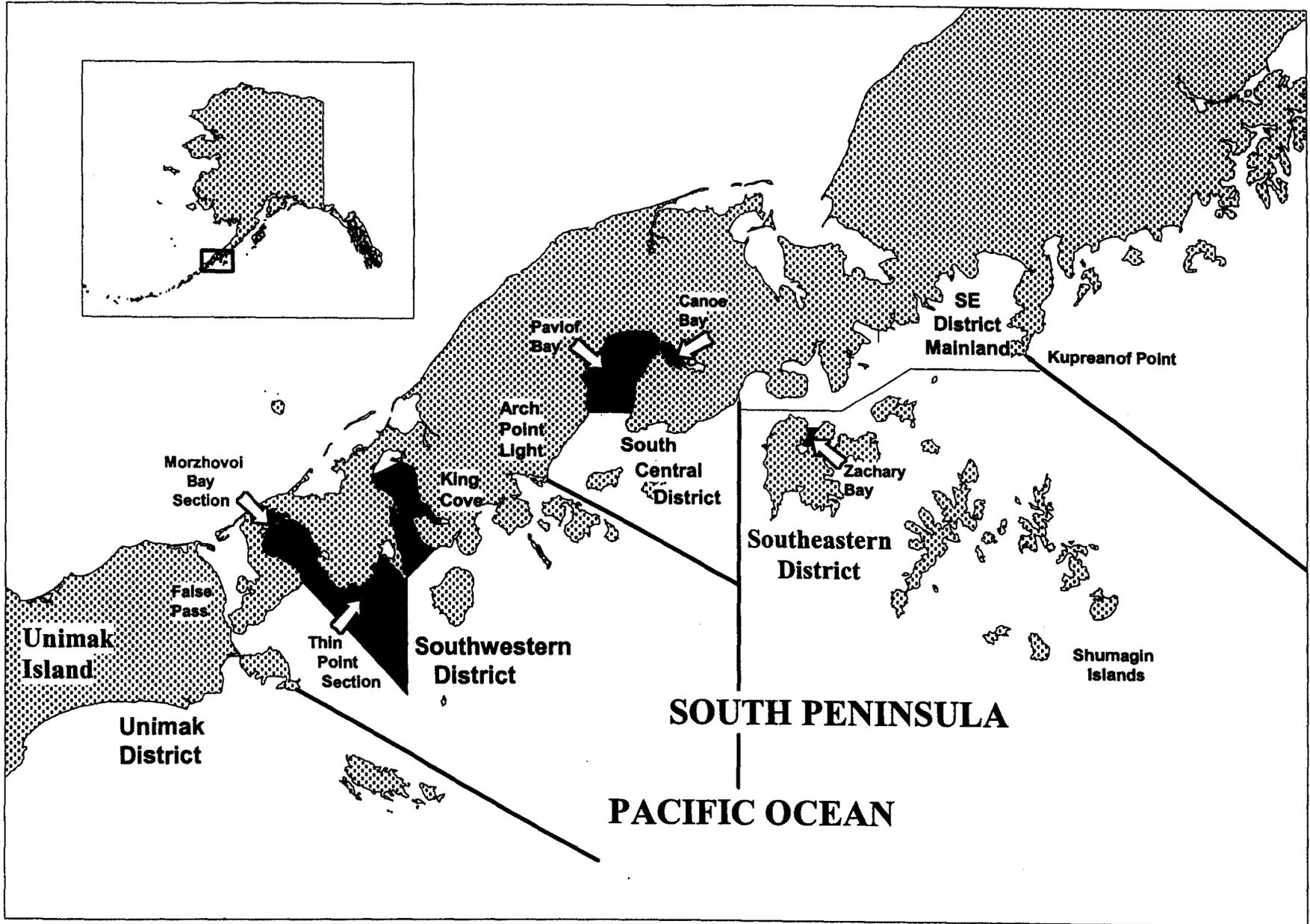
■ Terminal Areas (Cold Bay, Morzhovoi Bay, Thin Point, Zachary Bay, Pavlof Bay, and Canoe Bay)

▨ Non-Terminal Areas

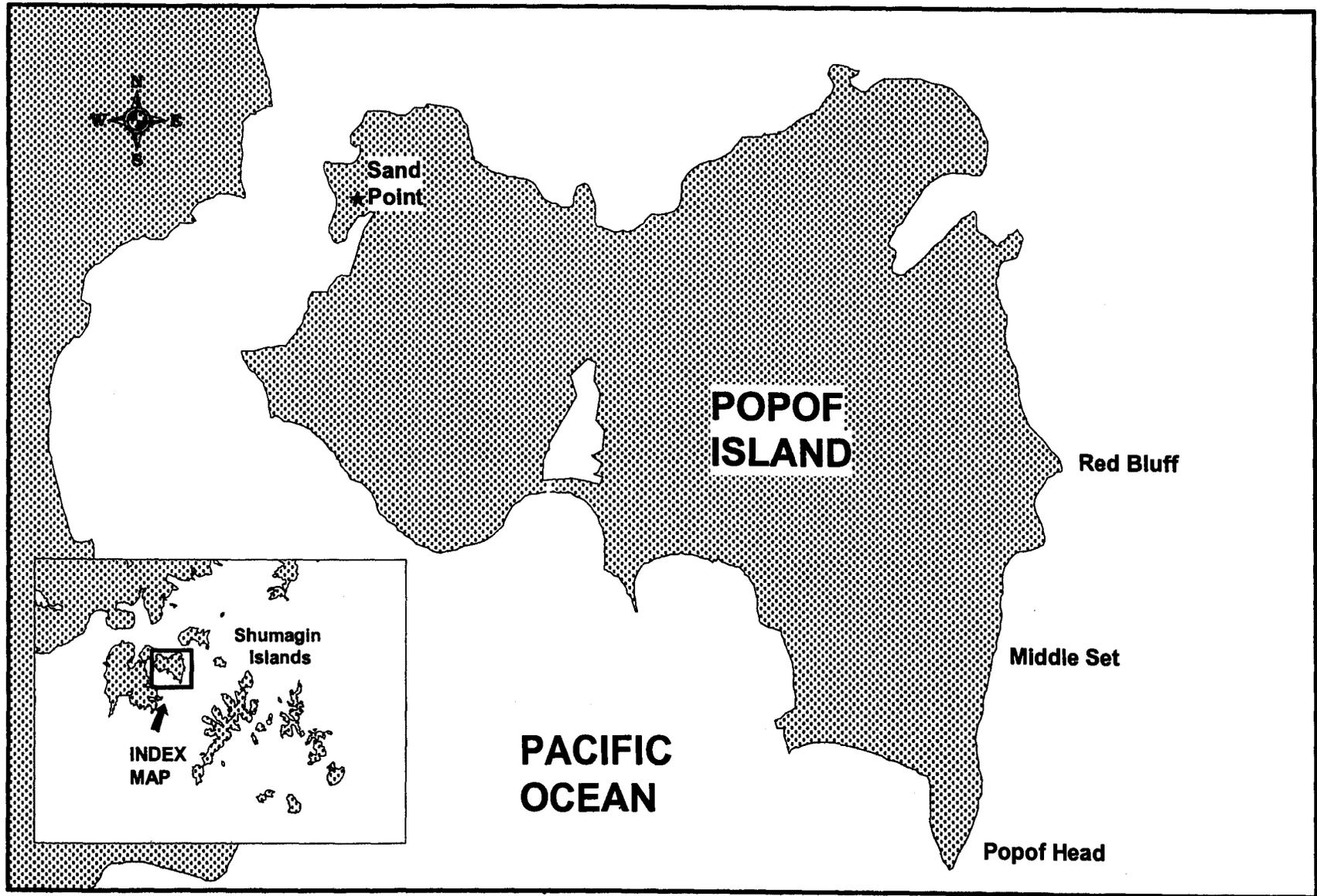
▨ Southeastern District Mainland Management Plan (Not affected by post-June plan until July 26)



Appendix D.2. Map of the South Peninsula with the areas effected by the Southeastern District Mainland and the post-June Salmon Management Plans July 6-19 during 1993-97.



Appendix D.3. Map of the South Peninsula with those areas where fishing time could be allowed during July 6-19, 1993-97 defined.



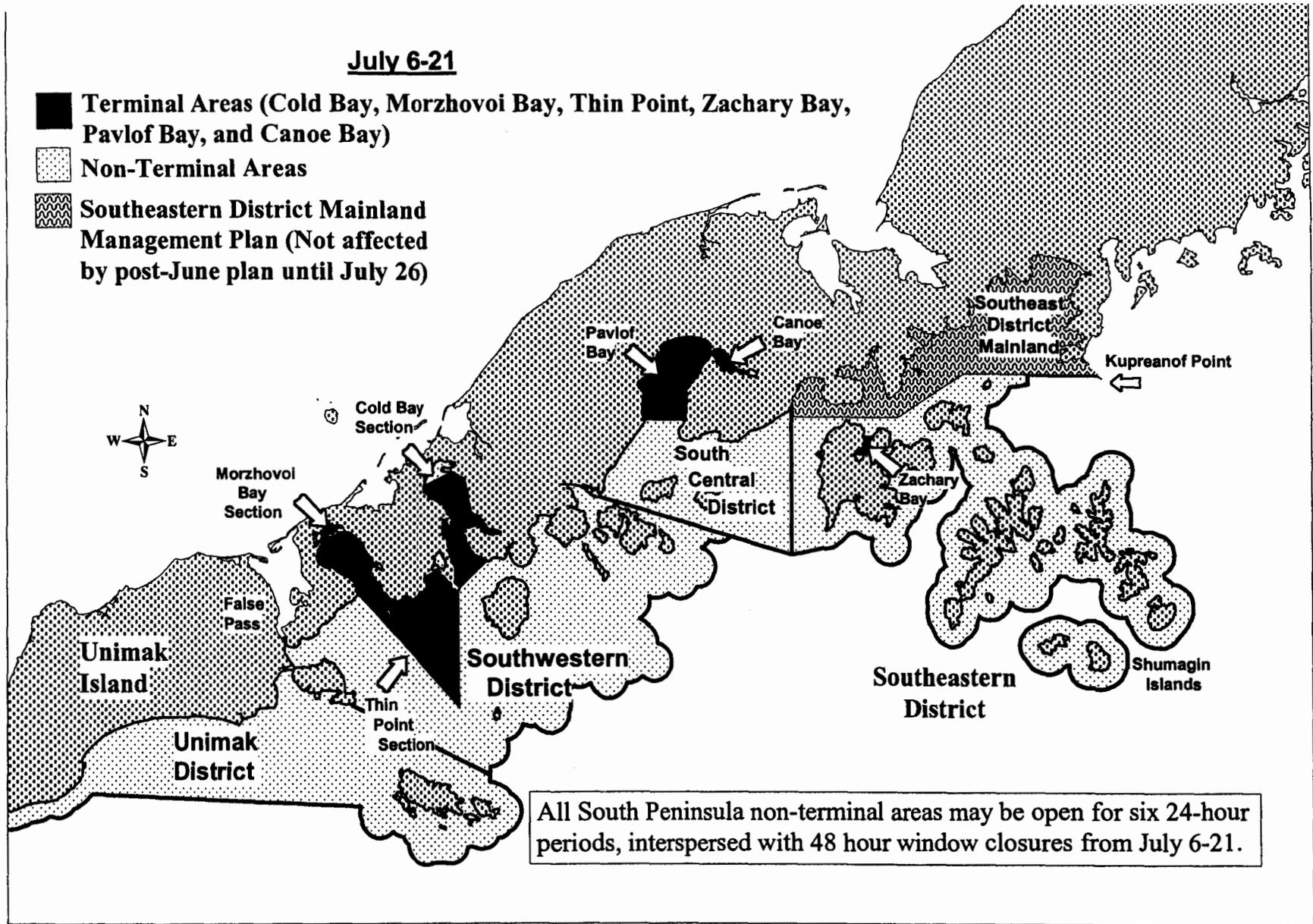
Appendix D.4. Map of Popof Island with the test fishing sites defined.

**July 6-21**

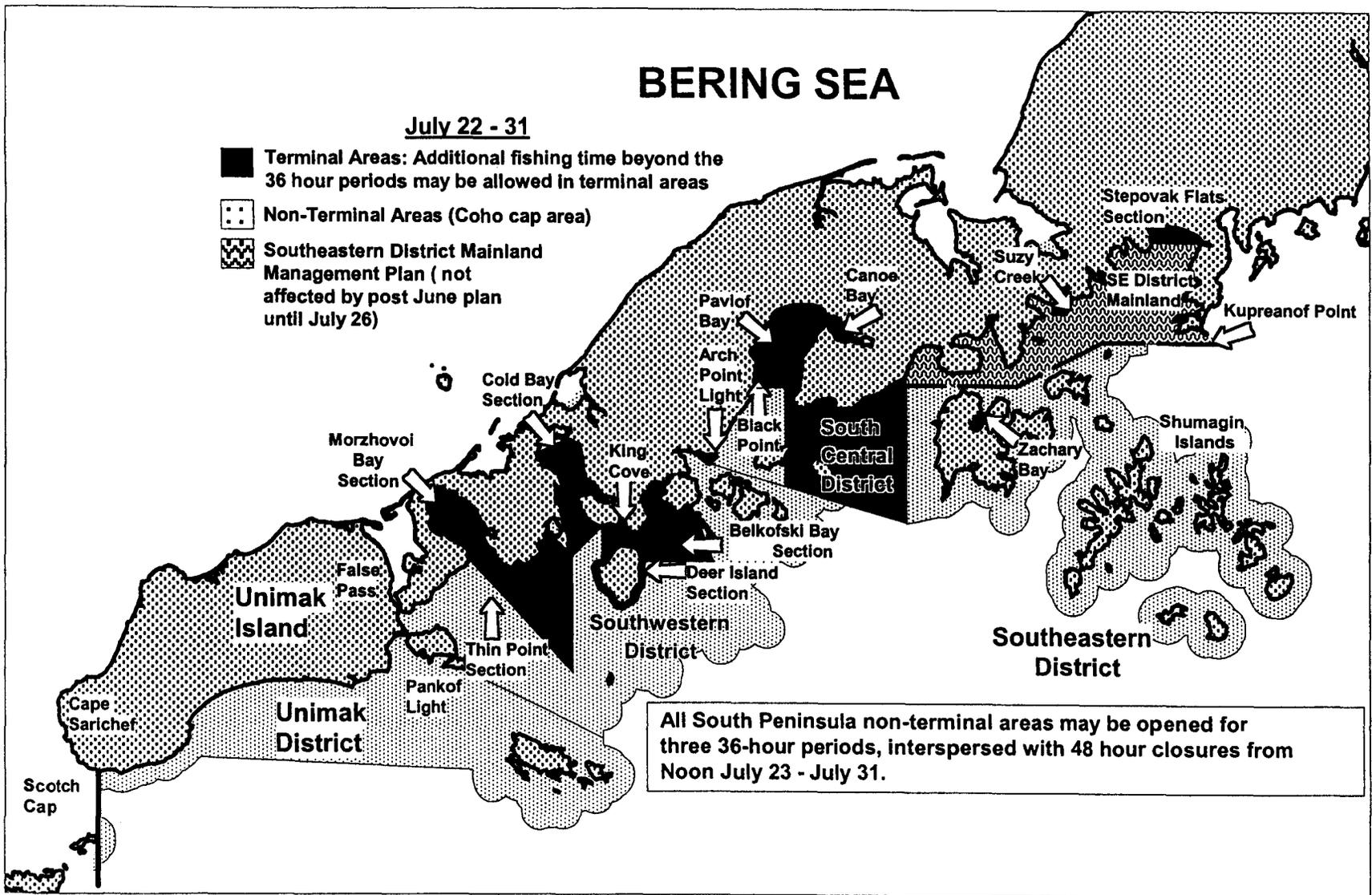
■ Terminal Areas (Cold Bay, Morzhovoi Bay, Thin Point, Zachary Bay, Pavlof Bay, and Canoe Bay)

▨ Non-Terminal Areas

▨ Southeastern District Mainland Management Plan (Not affected by post-June plan until July 26)



Appendix D.5. Map of the South Peninsula post-June fishery during July 6-21.



Appendix D.6. Map of the South Peninsula with those areas where additional fishing time may be allowed during July 22-31 defined.

Appendix D.7. Summary of the Shumagin Islands Section July salmon test fishery results, 2001.

Date	Number of Sets <sup>a</sup>	Number of Adult Salmon						Immature Salmon							
		Chinook	Sockeye	Coho	Pink	Chum	Total	Number				Percent			
		Chinook	Sockeye	Coho	Pink	Chum	Total	Chinook	Sockeye	Coho	Chum	Total	Sockeye	Chum	
2-Jul	5	17	1,194	12	1,701	2,336	5,260	56	211	2	541	810	26.0	66.8	
	Avg/Set	3	239	2	340	467	1052	11	42	0	108	162			
4-Jul	5	5	510	9	1,056	706	2,286	43	121	3	49	216	56.0	22.7	
	Avg/Set	1	102	2	211	141	457	9	24	1	10	43			
5-Jul	5	7	303	6	350	743	1,409	119	138	1	226	484	28.5	46.7	
	Avg/Set	1	61	1	70	149	282	24	28	0	45	97			
7-Jul	5	27	637	24	1,521	916	3,125	45	286	1	193	525	54.5	36.8	
	Avg/Set	5	127	5	304	183	625	9	57	0	39	105			
8-Jul	5	35	490	32	978	761	2,296	146	220	3	145	514	42.8	28.2	
	Avg/Set	7	98	6	196	152	459	29	44	1	29	103			
10-Jul	5	29	806	190	563	1,168	2,756	146	447	3	88	684	65.4	12.9	
	Avg/Set	6	161	38	113	234	551	29	89	1	18	137			
11-Jul	5	43	760	528	686	856	2,873	218	492	3	40	753	65.3	5.3	
	Avg/Set	9	152	106	137	171	575	44	98	1	8	151			
13-Jul	5	101	718	842	534	1,230	3,425	288	553	1	48	890	62.1	5.4	
	Avg/Set	20	144	168	107	246	685	58	111	0	10	178			
14-Jul	5	43	646	1,420	1,547	1,859	5,515	177	504	0	41	722	69.8	5.7	
	Avg/Set	9	129	284	309	372	1103	35	101	0	8	144			
16-Jul	5	11	194	290	446	197	1,138	27	269	0	11	307	87.6	3.6	
	Avg/Set	2	39	58	89	39	228	5	54	0	2	61			
Total	50	318	6,258	3,353	9,382	10,772	30,083	1,265	3,241	17	1,382	5,905			

<sup>a</sup> 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 D.8. South Peninsula post-June commercial salmon harvest, all gear combined, by species July 6-21, 2001.

Catch Date	Number of Salmon					Total
	Chinook	Sockeye	Coho	Pink	Chum	
<b><i>Non terminal areas, all gear combined, by day</i></b>						
6-Jul	0	14,479	157	7,468	6046	28,150
9-Jul	15	10,904	317	5,727	6501	23,464
10-Jul	1	1,995	0	0	1	1,997
11-Jul	1	1,172	0	11	12	1,196
12-Jul	13	11,319	2,616	7,425	8575	29,948
15-Jul	4	4,846	2,032	6,451	3762	17,095
17-Jul	115	5,345	11,724	18,363	5221	40,768
18-Jul	244	13,930	20,574	38,555	19660	92,963
20-Jul	14	1,490	1,646	11,024	3067	17,241
21-Jul	113	21,119	28,126	118,527	23457	191,342
Total	520	86,599	67,192	213,551	76,302	444,164
<b><i>Non terminal areas, all gear combined, by location</i></b>						
Shumagin Islands	506	42,839	53,557	168,884	47,920	313,706
South Unimak	11	22,687	12,318	9,347	14,762	59,125
Balance of South Peninsula	3	21,073	1,317	35,320	13,620	71,333
Total	520	86,599	67,192	213,551	76,302	444,164
<b><i>Terminal areas, all gear combined, by day</i></b>						
6-Jul	0	122	0	46	20	188
9-Jul	0	0	0	280	11,450	11,730
12-Jul	0	22	0	147	14,259	14,428
15-Jul	0	8	0	675	2,699	3,382
17-Jul	0	72	1	2,455	1,950	4,478
18-Jul	0	20	15	5,301	4,035	9,371
20-Jul	0	1	0	362	160	523
21-Jul	0	77	18	31,923	19,918	51,936
Total	0	322	34	41,189	54,491	96,036

Appendix D.9. South Peninsula post-June commercial salmon harvest, all gear combined, by species July 22-31, 2001.

Catch Date	Number of Salmon					Total
	Chinook	Sockeye	Coho	Pink	Chum	
<b><i>Non terminal areas (including SEDM after July 25), all gear combined, by day</i></b>						
23-Jul	205	13,158	27,134	85,126	12,959	138,582
24-Jul	92	11,049	26,734	91,989	17,737	147,601
26-Jul	24	2,740	1,390	40,547	16,961	61,662
27-Jul	14	6,503	2,345	56,438	8,700	74,000
30-Jul	4	6,023	2,476	183,118	21,784	213,405
<b>Total</b>	<b>339</b>	<b>39,473</b>	<b>60,079</b>	<b>457,218</b>	<b>78,141</b>	<b>635,250</b>
<b><i>Non terminal areas, all gear combined, by location</i></b>						
Shumagin Islands	292	22,006	49,547	164,376	27,381	263,602
South Unimak	5	2,715	6,017	1,657	4,188	14,582
SEDM July 26-31	42	11,208	2,398	233,786	39,290	286,724
Balance of South Peninsula	0	3,544	2,117	57,399	7,282	70,342
<b>Total</b>	<b>339</b>	<b>39,473</b>	<b>60,079</b>	<b>457,218</b>	<b>78,141</b>	<b>635,250</b>
<b><i>Terminal areas (including SEDM terminal areas after July 25), all gear combined, by day</i></b>						
23-Jul	0	1,262	14	30,841	5,137	37,254
24-Jul	0	566	28	30,972	11,110	42,676
25-Jul	1	711	21	22,226	9,237	32,196
26-Jul	8	1,138	199	55,885	15,744	72,974
27-Jul	0	181	3	16,586	4,487	21,257
28-Jul	0	2,232	1	24,354	5,016	31,603
29-Jul	0	1,855	0	18,834	3,318	24,007
30-Jul	4	857	10	46,692	12,907	60,470
31-Jul	0	10	8	28,503	3,228	31,749
<b>Total</b>	<b>13</b>	<b>8,812</b>	<b>284</b>	<b>274,893</b>	<b>70,184</b>	<b>354,186</b>

Appendix D.10. South Peninsula post-June commercial salmon harvest, all gear combined, by species, August 1-31, 2001.

	Chinook	Sockeye	Coho	Pink	Chum	Total
<b>Southeastern District</b>						
Shumagin Islands	793	31,967	40,023	639,447	46,576	758,806
Southeastern District Mainland	93	62,453	11,151	702,559	92,383	868,639
Subtotal	886	94,420	51,174	1,342,006	138,959	1,627,445
<b>South Central District</b>	2	285	37	499,152	29,742	529,218
<b>Southwestern District</b>	4	21,813	11,713	870,983	325,505	1,230,018
<b>Unimak District</b>	0	0	0	0	0	0
South Peninsula Total	892	116,518	62,924	2,712,141	494,206	3,386,681

Appendix D.11. South Peninsula fall fishery (Sep. 1-Oct. 31) commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permits	Landings	Number Of Salmon <sup>a</sup>					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	b	b	b	b	b	b	b	b
1971	b	b	b	b	b	b	b	b
1972	b	b	b	b	b	b	b	b
1973	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0
1976	4	15	0	1,776	160	85	0	2,021
1977	9	23	0	2,465	635	0	528	3,628
1978	21	51	0	808	4,651	0	5,726	11,185
1979	25	60	0	2,375	17,468	54	5,307	25,204
1980	29	139	0	6,513	30,390	154	4,166	41,223
1981	31	115	0	10,004	21,016	0	220	31,240
1982	29	213	2	24,471	10,742	0	3,407	38,622
1983	48	334	35	25,493	14,945	1,254	2,958	44,685
1984	52	269	10	13,351	10,526	458	1,789	26,134
1985	55	182	5	4,002	14,725	290	6,960	25,982
1986	46	146	2	3,459	6,318	518	2,519	12,816
1987	65	323	12	23,332	22,040	1,499	52,079	98,962
1988	68	328	4	24,635	26,497	62,290	19,345	132,771
1989	60	363	12	34,932	15,724	281	10,058	61,007
1990	66	426	7	67,142	23,318	584	73,195	164,246
1991	52	273	2	20,056	20,337	0	16,183	56,578
1992	53	333	58	13,115	35,323	1,525	3,486	53,507
1993	50	248	31	16,386	16,965	515	2,918	36,815
1994	75	373	18	25,481	36,563	294	214,174	276,530
1995	55	473	3	110,657	26,083	1,710	9,860	148,313
1996	57	364	5	26,301	26,525	136	2,910	55,877
1997	51	513	30	76,965	36,447	3,568	6,199	123,209
1998	67	430	25	44,775	20,838	1,818	10,382	77,838
1999	58	503	12	118,064	17,622	12,353	3,668	151,719
2000	71	444	11	47,160	25,039	3,963	83,701	159,874
2001	34	382	16	97,717	17,317	1,824	2,894	119,768
Range 1991-2000	59	395	20	49,896	26,174	2,588	35,348	114,026
Range 1981-2000	55	333	14	36,489	21,380	4,653	26,301	88,836

est fish harvests are not included

onfidentiality requirements prohibit reporting harvest.

Appendix D.12. South Peninsula (minus the Southeastern District Mainland fishery July 1-25 salmon harvest) post-June (July 1-Oct 31) commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permits <sup>b</sup>	Landings	Number Of Salmon <sup>a</sup>					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	127	1,467	758	44,795	32,340	1,610,724	535,625	2,224,242
1971	175	2,166	1,252	190,632	16,814	1,411,230	838,978	2,458,906
1972	140	848	656	35,120	7,916	55,802	204,113	303,607
1973	115	582	151	37,424	6,340	34,118	87,077	165,110
1974	95	509	532	108,923	9,152	71,459	64,455	254,521
1975	46	65	0	293	3	52,375	29,158	81,829
1976	125	1,102	6	11,674	176	2,324,547	116,355	2,452,758
1977	103	1,131	7	26,545	1,168	1,425,107	119,646	1,572,473
1978	123	2,081	203	61,379	60,417	5,467,134	408,544	5,997,677
1979	165	2,446	972	209,755	350,770	6,365,911	371,358	7,298,766
1980	152	2,646	1,522	310,278	271,738	6,295,345	785,026	7,663,909
1981	168	2,502	4,190	218,667	158,846	4,564,926	1,033,055	5,979,684
1982	183	2,781	2,313	140,487	252,885	4,806,182	1,042,978	6,244,845
1983	201	2,667	11,726	292,536	124,431	2,760,452	816,567	4,005,712
1984	217	3,525	4,290	334,781	306,522	10,469,392	1,176,050	12,291,035
1985	213	2,787	688	272,059	169,137	4,249,809	827,781	5,519,474
1986	202	3,001	3,475	545,160	235,082	3,698,727	1,346,879	5,829,323
1987	233	2,692	3,881	410,755	224,543	1,189,211	911,414	2,739,804
1988	243	4,356	6,797	635,804	502,960	6,767,066	1,307,053	9,219,680
1989	274	3,993	4,106	825,372	440,171	6,879,878	531,759	8,681,286
1990	261	3,257	5,480	875,237	288,728	2,299,161	672,937	4,141,543
1991	234	3,573	2,423	465,874	311,825	9,952,671	788,955	11,521,748
1992	233	3,907	4,003	765,575	414,809	9,101,628	863,505	11,149,520
1993	221	3,086	3,524	497,933	209,816	9,765,709	504,894	10,981,876
1994	213	3,302	1,642	408,089	249,066	6,640,031	1,591,094	8,889,922
1995	207	3,824	2,010	731,651	252,358	16,071,184	1,155,825	18,213,028
1996	180	1,966	1,914	215,721	263,654	1,738,973	379,578	2,599,840
1997	168	1,399	1,206	325,261	110,488	1,681,374	277,559	2,395,888
1998	209	3,975	1,793	764,947	150,735	7,441,311	455,978	8,814,764
1999	185	4,205	1,580	1,355,842	191,585	8,369,899	563,270	10,482,176
2000	179	2,894	2,081	530,913	249,874	3,132,340	788,698	4,703,906
2001	177	2,367	1,780	349,441	207,830	3,700,816	776,218	5,036,085
1978-92	Average							
	207	3,081	3,738	424,248	274,191	5,657,833	858,924	7,218,934
1993-97	Average							
	198	2,715	2,059	435,731	217,076	7,179,454	781,790	8,616,111
1998-2000	Average							
	191	3,691	1,818	883,901	197,398	6,314,517	602,649	8,000,282

<sup>a</sup> Test fish harvests are not included.

<sup>b</sup> Permits used equals total South Peninsula post June permits.

Appendix D.13. South Peninsula post-June commercial salmon harvest, (including the Southeastern District Mainland fishery) all gear combined, by species and year, July 1-October 31, 1970-2001.

Year	Permits	Landings	Number of Salmon					Total
			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
1998	209	4,340	2,100	882,078	153,694	7,566,341	465,907	9,070,120
1999	185	4,351	1,619	1,403,036	192,480	8,412,751	567,929	10,577,815
2000	179	3,802	2,176	654,532	256,841	3,189,515	813,977	4,917,041
2001	177	2,937	1,957	453,736	209,144	3,743,036	826,358	5,234,231
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
Average 1998-2000								
	191	4,164	1,965	979,882	201,005	6,389,536	615,938	8,188,325

Appendix D.14. South Peninsula post-June commercial salmon harvest, (including the Southeastern District Mainland) all gear combined, by species and year, July 1 - October 31, 1909-2001.

Year	Number of Salmon					Total
	Chinook	Sockeye	Coho	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 <sup>a</sup>			96,600			
1929 <sup>a</sup>			84,500			
1930 <sup>a</sup>			161,100			
1931 <sup>a</sup>			128,700			
1932 <sup>a</sup>			112,300			
1933 <sup>a</sup>			190,000			
1934 <sup>a</sup>			247,100			
1935 <sup>a</sup>			117,200			
1936 <sup>a</sup>			284,600			
1937 <sup>a</sup>			73,900			
1938 <sup>a</sup>			220,700			
1939 <sup>a</sup>			98,900			
1940 <sup>a</sup>			184,200			
1941 <sup>a</sup>			183,000			
1942 <sup>a</sup>			123,000			
1943 <sup>a</sup>			90,600			
1944 <sup>a</sup>			238,700			
1945 <sup>a</sup>			116,100			
1946 <sup>a</sup>			151,400			
1947 <sup>a</sup>			55,800			
1948 <sup>a</sup>			39,200			
1949 <sup>a</sup>			19,500			
1950 <sup>a</sup>			70,700			

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Year	Number of Salmon					Total
	Chinook	Sockeye	Coho	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	1,425,752	856,019	2,525,144
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	66	55,395	29,928	88,838
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	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	2,111	391,858	264,966	1,809,350	410,762	2,879,047
1997	1,352	630,008	111,872	1,697,989	283,929	2,725,150
1998	2,100	882,078	153,694	7,566,341	465,907	9,070,120
1999	1,619	1,403,036	192,480	8,412,751	567,929	10,577,815
2000	2,176	654,532	256,841	3,189,515	813,977	4,917,041
2001	1,957	453,736	209,144	3,743,036	826,358	5,234,231
Average 1979-98	3,675	582,941	267,242	6,206,159	890,825	7,950,842
Average 1989-98	3,091	729,918	272,426	7,222,069	737,280	8,964,783
Average 1978-92	4,004	521,634	277,093	5,728,901	919,953	7,451,586
Average 1993-97	2,314	605,413	219,104	7,224,701	794,965	8,846,496
Average 1998-2000	1,965	979,882	201,005	6,389,536	615,938	8,188,325

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

Appendix D.15 South Peninsula (including Southeastern District Mainland Fishery)  
 post-June commercial chinook salmon harvest by gear and year, July  
 1- October 31, 1970-2001.

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	1,826	86.5	28	1.3	257	12.2	2,111
1997	1,161	85.9	18	1.3	173	12.8	1,352
1998	1,768	84.2	18	0.9	314	15.0	2,100
1999	1,367	84.4	15	0.9	237	14.6	1,619
2000	1,983	91.1	19	0.9	174	8.0	2,176
2001	1,732	88.5	19	1.0	206	10.5	1,957
Average 1981-2000							
	3,371	87.6	69	1.9	295	10.5	3,734
Average 1991-2000							
	2,046	83.5	38	1.4	348	15.0	2,431
Average 1978-92							
	3,697	92.3	74	1.8	233	5.8	4,004
Average 1993-97							
	1,906	82.4	43	1.9	365	15.8	2,314
Average 1998-2000							
	1,706	86.6	17	0.9	242	12.5	1,965

Appendix D.16. South Peninsula (including Southeastern District Mainland Fishery) post-June commercial sockeye salmon harvest by gear and year, July 1-October 31, 1970-2001.

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	80,639	20.6	5,776	1.5	305,443	77.9	391,858
1997	123,940	19.7	24,278	3.9	481,790	76.5	630,008
1998	381,734	43.3	35,569	4.0	464,775	52.7	882,078
1999	680,344	48.5	35,100	2.5	687,592	49.0	1,403,036
2000	212,658	32.5	20,587	3.1	421,287	64.4	654,532
2001	96,084	21.2	28,238	6.2	329,414	72.6	453,736
Average 1981-2000							
	298,626	45	33,178	5	321,266	50	653,070
Average 1990-99							
	327,150	39.1	36,335	4.3	415,797	56.6	779,282
Average 1978-92							
	280,003	53.7	32,046	6.1	209,586	40.2	521,634
Average 1993-97							
	201,850	33.3	18,623	3.1	384,940	63.6	605,413
Average 1998-2000							
	424,912	41.4	30,419	3.2	524,551	55.4	979,882

Appendix D.17. South Peninsula (including Southeastern District Mainland Fishery) post-June commercial coho salmon harvest by gear and year, July 1-October 31, 1970-2001.

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	195,272	73.7	22,561	8.5	47,133	17.8	264,966
1997	47,254	42.2	19,855	17.7	44,763	40.0	111,872
1998	83,205	54.1	30,219	19.7	40,270	26.2	153,694
1999	143,560	74.6	11,734	6.1	37,186	19.3	192,480
2000	180,030	70.1	33,632	13.1	43,179	16.8	256,841
2001	148,946	71.2	28,490	13.6	31,708	15.2	209,144
Average 1981-2000							
	189,654	73.1	31,987	11.6	36,572	15.3	258,213
Average 1991-2000							
	163,897	65.6	30,520	12.8	48,251	21.5	242,668
Average 1978-92							
	220,052	79.4	29,627	10.7	27,414	9.9	277,093
Average 1993-97							
	147,794	67.5	23,956	10.9	47,354	21.6	219,104
Average 1998-2000							
	135,598	66.3	25,195	13.0	40,212	20.8	201,005

Appendix D.18. South Peninsula (including Southeastern District Mainland Fishery)  
post-June commercial pink salmon harvest by gear and year, July 1-  
October 31, 1970-2001.

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	1,416,920	99.4	1,983	0.1	6,849	0.5	1,425,752
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	1,522,362	84.1	17,593	1.0	269,395	14.9	1,809,350
1997	1,627,495	95.8	14,435	0.9	56,059	3.3	1,697,989
1998	6,803,002	89.9	192,352	2.5	570,987	7.5	7,566,341
1999	8,016,735	95.3	12,045	0.1	383,971	4.6	8,412,751
2000	2,871,880	90.0	15,979	0.5	301,656	9.5	3,189,515
2001	3,401,979	90.9	18,636	0.5	322,421	8.6	3,743,036
Average 1981-2000							
	5,838,893	94.5	46,785	0.8	263,357	4.7	6,149,036
Average 1991-2000							
	7,029,008	93.3	47,786	0.7	361,908	5.9	7,438,701
Average 1978-92							
	5,515,503	96.3	39,490	0.7	173,909	3.0	5,728,901
Average 1993-97							
	6,873,399	95.1	27,927	0.4	323,375	4.5	7,224,701
Average 1998-2000							
	5,897,206	91.7	73,459	1.1	418,871	7.2	6,389,536

Appendix D.19. South Peninsula (including Southeastern District Mainland Fishery)  
post-June commercial chum salmon harvest by gear and year, July 1-  
October 31, 1970-2001.

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	715,457	83.6	124,539	14.5	16,023	1.9	856,019
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	314,538	76.6	14,306	3.5	81,918	19.9	410,762
1997	239,619	84.4	13,278	4.7	31,032	10.9	283,929
1998	333,693	71.6	35,723	7.7	96,491	20.7	465,907
1999	427,414	75.3	21,247	3.7	119,268	21.0	567,929
2000	653,132	80.2	26,134	3.2	134,711	16.5	813,977
2001	650,700	78.7	24,299	3.0	151,359	18.3	826,358
Average 1981-2000							
	784,807	85.4	27,422	3.5	86,556	11.0	898,785
Average 1991-2000							
	632,697	82.3	23,206	3.6	94,156	14.0	750,059
Average 1978-92							
	819,256	89.1	24,929	2.7	75,768	8.2	919,953
Average 1993-97							
	700,153	88.1	18,847	2.4	75,965	9.6	794,965
Average 1998-2000							
	471,413	75.7	27,701	4.9	116,823	19.4	615,938

Appendix D.20. Shumagin Islands Section post-June commercial salmon harvest, all gear combined, by species and year, July 1-October 31, 1970-2001.

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	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
1976	42	127	0	3	3	303,422	7,968	311,396
1977	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>	<sup>a</sup>
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
1998	107	1,475	1,505	353,650	83,032	1,900,291	133,114	2,471,592
1999	102	1,960	1,410	724,778	143,244	3,546,717	269,842	4,685,991
2000	104	1,200	1,938	288,633	176,369	900,892	234,472	1,602,304
2001	85	632	1,592	100,451	144,572	1,009,398	129,975	1,385,988
Average 1978-98								
	106	1,126	2,465	211,337	172,234	1,799,354	243,432	2,428,822
Average 1989-98								
	117	1,170	2,043	250,048	156,737	2,012,085	199,590	2,620,503
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
Average 1998-2000								
	104	1,545	1,618	455,687	134,215	2,115,967	212,476	2,919,962

<sup>a</sup> Confidentiality requirements prohibit reporting of harvest.

Appendix D.21. Southeastern District (minus the Southeastern District Mainland fishery July 1 -25 salmon harvest) post-June commercial salmon harvest, all gear combined, by species and year, July 1-October 31, 1970-2001.

Year	Permit <sup>a</sup>	Landing	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	62	638	736	23,040	31,195	657,415	151,122	863,508
1971	63	1,017	1,190	55,178	16,332	818,831	439,095	1,330,626
1972	58	489	650	22,875	7,859	44,190	115,152	190,726
1973	38	322	149	25,110	6,272	27,143	49,900	108,574
1974	53	339	522	71,648	8,128	67,791	50,615	198,704
1975	13	11	0	213	34	237	274	758
1976	64	295	0	3,665	201	579,646	31,103	614,615
1977	60	252	11	20,407	2,076	205,572	20,582	248,648
1978	77	916	198	58,137	47,081	1,899,575	226,733	2,231,724
1979	104	1,322	951	182,949	332,572	3,257,929	167,441	3,941,842
1980	103	1,679	1,515	292,025	253,680	2,024,405	443,529	3,015,154
1981	107	1,522	4,086	176,792	137,342	2,476,913	554,649	3,349,782
1982	109	1,588	2,116	98,555	223,931	2,371,602	549,297	3,245,501
1983	114	1,780	7,566	280,995	109,633	1,073,412	388,933	1,860,539
1984	123	1,962	3,759	263,720	240,108	3,124,821	423,861	4,056,269
1985	119	1,677	556	170,640	128,289	2,604,099	296,027	3,199,611
1986	115	1,887	3,337	403,744	205,988	1,952,743	679,646	3,245,458
1987	134	1,777	3,624	303,610	181,894	919,099	533,817	1,942,044
1988	127	2,788	6,096	500,764	390,211	4,491,452	607,241	5,995,764
1989	145	2,587	3,518	609,495	321,855	4,818,537	364,236	6,117,641
1990	149	2,133	5,305	615,501	222,923	1,323,270	468,738	2,635,737
1991	142	2,200	1,845	319,019	191,333	4,235,266	394,708	5,142,171
1992	135	2,205	3,118	362,056	285,360	3,268,497	318,082	4,237,113
1993	128	1,926	3,005	315,539	157,250	5,909,612	177,831	6,563,237
1994	134	1,716	1,277	261,324	201,433	1,451,225	367,849	2,283,108
1995	132	2,273	1,841	534,803	207,284	7,380,863	466,744	8,591,535
1996	121	1,444	1,830	170,088	218,649	903,433	180,026	1,474,026
1997	105	832	1,119	210,434	66,120	251,894	39,947	569,514
1998	117	2,484	1,675	515,309	104,035	2,724,915	192,853	3,538,787
1999	115	2,900	1,493	965,317	162,616	4,361,401	318,390	5,809,217
2000	112	1,856	1,993	392,190	189,401	1,255,128	292,390	2,131,102
2001	102	1,542	1,749	268,342	174,037	1,947,906	268,633	2,660,667
Average 1981-2000	124	1,977	2,958	373,495	197,283	2,844,909	380,763	3,799,408
Average 1991-2000	124	1,984	1,920	404,608	178,348	3,174,223	274,882	4,033,981
Average 1978-92	120	1,868	3,173	309,200	218,147	2,656,108	427,796	3,614,423
Average 1993-97	124	1,638	1,814	298,438	170,147	3,179,405	246,479	3,896,284
Average 1998-2000	115	2,413	1,720	624,272	152,017	2,780,481	267,878	3,826,369

<sup>a</sup>Permits used equals total Southeastern District post June permits.

Appendix D.22. Southeastern District fall fishery (Sep. 1-Oct. 31) commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	0	0	0	0	0	0	0	0
1971	a	a	a	a	a	a	a	a
1972	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0
1976	4	15	0	1,776	160	85	0	2,021
1977	7	12	0	1,369	304	0	210	1,883
1978	10	27	0	761	1,738	0	2,475	4,974
1979	11	29	0	1,535	1,803	19	3,329	6,686
1980	10	46	0	3,898	5,736	2	1,438	11,074
1981	16	58	0	5,863	1,709	0	0	7,572
1982	19	144	2	18,327	5,108	0	708	24,145
1983	40	235	34	17,791	10,562	59	2,241	30,687
1984	36	188	6	9,374	6,160	144	832	16,516
1985	34	129	5	3,260	6,653	252	1,449	11,619
1986	26	99	1	2,900	3,095	376	1,854	8,226
1987	37	194	8	17,740	12,634	1,092	11,642	43,116
1988	48	225	1	18,682	11,037	61,658	1,935	93,313
1989	50	317	12	32,187	11,389	276	9,413	53,277
1990	47	317	7	53,445	9,348	571	71,357	134,728
1991	38	244	2	19,741	7,751	0	2,673	30,167
1992	42	303	58	13,046	26,700	1,525	3,292	44,621
1993	40	217	31	16,220	7,830	515	2,877	27,473
1994	55	310	18	24,882	30,082	197	15,738	70,917
1995	50	458	3	109,283	22,190	1,710	9,599	142,785
1996	52	344	5	26,038	12,924	136	2,910	42,013
1997	45	490	30	76,068	23,432	3,568	6,174	109,272
1998	60	404	25	42,568	13,999	1,818	10,382	68,792
1999	54	495	12	117,902	15,270	12,353	3,581	149,118
2000	58	409	11	46,976	14,503	1,198	4,793	67,481
2001	34	382	16	97,717	17,317	1,824	2,894	119,768
Average 1981 - 2000								
	42	279	14	33,615	12,619	4,372	8,173	58,792
Average 1991 - 2000								
	49	367	20	49,272	17,468	2,302	6,202	75,264

<sup>a</sup> Confidentiality requirements prohibit reporting harvest.

Appendix D.23. South Central, Southwestern, and Unimak Districts, combined, post-June commercial salmon harvest, all gear combined, by species and year, July 1-October 31, 1970-2001.

Year	Permits	Landings	Number of Salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1970	111	968	29	24,990	2,170	1,095,513	413,685	1,536,387
1971	162	1,469	129	153,473	764	900,752	538,527	1,593,645
1972	109	442	47	20,653	240	22,785	107,895	151,620
1973	99	365	3	22,751	281	14,044	44,115	81,194
1974	75	396	39	87,134	1,216	35,090	24,098	147,577
1975	40	76	0	506	37	52,612	29,432	82,587
1976	114	957	6	11,683	49	1,943,867	105,874	2,061,479
1977	93	1,164	16	34,980	1,346	1,403,137	117,895	1,557,374
1978	109	1,403	17	11,695	18,744	3,992,186	230,071	4,252,713
1979	136	1,395	71	68,289	31,839	3,780,765	242,278	4,123,242
1980	125	1,349	66	75,635	31,669	4,489,131	395,964	4,992,465
1981	137	1,459	203	98,491	29,909	2,892,995	619,794	3,641,392
1982	150	1,713	393	67,205	39,742	2,761,320	625,634	3,494,294
1983	172	1,680	5,881	207,648	25,450	1,802,299	559,837	2,601,115
1984	199	2,690	1,451	286,445	90,530	8,607,009	931,615	9,917,050
1985	165	1,532	175	137,607	51,147	2,325,343	590,634	3,104,906
1986	155	1,505	204	199,925	31,055	1,965,955	701,215	2,898,354
1987	185	1,201	416	133,751	49,958	511,880	415,865	1,111,870
1988	198	1,966	744	176,577	122,590	2,644,442	767,034	3,711,387
1989	230	1,806	1,029	271,072	128,518	3,161,629	207,146	3,769,394
1990	220	1,669	688	440,975	72,228	1,041,483	235,594	1,790,968
1991	158	1,373	578	146,855	120,492	5,717,405	394,247	6,379,577
1992	176	1,702	885	403,519	129,449	5,833,131	545,423	6,912,407
1993	145	1,160	519	182,394	52,566	3,856,097	327,063	4,418,639
1994	150	1,586	365	146,765	47,633	5,188,806	1,223,245	6,606,814
1995	140	1,550	159	195,867	44,805	8,686,233	688,117	9,615,181
1996	74	521	71	45,453	42,477	834,266	198,733	1,121,000
1997	88	566	85	114,709	44,366	1,429,476	237,609	1,826,245
1998	137	1,491	118	249,638	46,700	4,716,396	263,125	5,275,977
1999	118	1,305	87	390,525	28,969	4,008,498	244,880	4,672,959
2000	108	1,038	88	138,723	60,473	1,877,212	496,308	2,572,804
2001	93	825	31	81,099	33,793	1,752,910	507,585	2,375,418
verage 1981-2000	155	1,476	707	201,707	62,953	3,493,094	513,656	4,272,117
verage 1991-2000	129	1,229	296	201,445	61,793	4,214,752	461,875	4,940,160

Appendix D.24. South Central, Southwestern, and Unimak Districts fall (Sep. 1-Oct. 31)  
commercial salmon harvest, all gear combined, by species and year, 1970-2001.

Year	Number of Salmon							Total
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum	
1970	a	a	a	a	a	a	a	a
1971	0	0	0	0	0	0	0	0
1972	a	a	a	a	a	a	a	a
1973	0	0	0	0	0	0	0	0
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	a	a	a	a	a	a	a	a
1978	12	24	0	47	2,913	0	3,251	6,211
1979	14	31	0	840	15,665	35	1,978	18,518
1980	23	93	0	2,615	24,654	152	2,728	30,149
1981	20	57	0	4,141	19,307	0	220	23,668
1982	15	69	0	6,144	5,634	0	2,699	14,477
1983	17	99	1	7,702	4,383	1,195	717	13,998
1984	26	81	4	3,977	4,366	314	957	9,618
1985	26	53	0	742	8,072	38	5,511	14,363
1986	22	47	1	559	3,223	142	665	4,590
1987	37	129	4	5,592	9,406	407	40,437	55,846
1988	32	103	3	5,953	15,460	632	17,410	39,458
1989	16	46	0	2,745	4,335	5	645	7,730
1990	33	109	0	13,697	13,970	13	1,838	29,518
1991	14	29	0	315	12,586	0	13,510	26,411
1992	11	30	0	69	8,623	0	194	8,886
1993	10	31	0	166	9,135	0	41	9,342
1994	23	63	0	599	6,481	97	198,436	205,613
1995	5	15	0	1,374	3,893	0	261	5,528
1996	5	20	0	263	13,601	0	0	13,864
1997	6	23	0	897	13,015	0	25	13,937
1998	7	26	0	2,207	6,839	0	0	9,046
1999	4	8	0	162	2,352	0	87	2,601
2000	14	35	0	184	10,536	2,765	78,908	92,393
2001	0	0	0	0	0	0	0	0
Average 1981-2000	17	54	1	2,874	8,761	280	18,128	30,044
Average 1991-2000	10	28	0	624	8,706	286	29,146	38,762

<sup>a</sup> Confidentiality requirements prohibit reporting harvest.

## Appendix E.1. Method for calculating indexed total escapement.

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The basic methods for calculating estimated indexed total escapements without the use of a weir or tower are as follows:

**Sockeye and coho salmon:** These species tend to have a much longer stream life than pink and chum salmon. The indexed total escapement is usually the peak escapement count, including carcasses.

At Thin Point Lagoon and Lake, 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 together biweekly estimates of spawning sockeye.

**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

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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
Indexed			
Estimated Total	255,000	7,000	

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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.

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Appendix E.2. Summary of historical sockeye salmon data from Orzinski Lake, Thin Point Lake, and Middle Lagoon/Morzhovoi weirs.

Year	Orzinski Weir			Thin Point Weir			Middle Lagoon/Morzhovoi Weir		
	Dates		Sockeye	Dates		Sockeye	Dates		Sockeye
	Installed	Removed		Installed	Removed		Installed	Removed	
1926 <sup>a</sup>							unknown	unknown	13,590
1927							unknown	unknown	23,932
1928	no records found prior to 1929 for this weir						unknown	unknown	8,904
1929	unknown	unknown	5,740				unknown	unknown	15,974
1930	unknown	unknown	1,923				unknown	unknown	24,551
1931	unknown	unknown	5,756				1-Jul	7-Sep	28,588
1932	20-Jun	unknown	25,706				26-Jun	8-Aug	40,306
1933	not operated this year						not operated this year		
1934	23-Jun	"mid-season"	6,634				23-Jun	8-Sep	81,748
1935	13-Jun	"mid-September"	28,478				10-Jun	5-Oct	17,367
1936	16-Jun	8-Aug	31,720				not operated again successfully until 1996		
1937	before 19-Jun	6-Aug	15,393						
1938	30-May	7-Aug	8,675						
1939	14-Jun	3-Aug	10,414						
1940	7-Jun	5-Aug	16,414						
1941	14-Jun	8-Aug	8,241						
1942-1989	no weirs operated on the South Peninsula								
1990	27-Jun	7-Aug	13,467						
1991	14-Jun	20-Jul	35,219						
1992	12-Jun	31-Jul	20,542						
1993	9-Jun	3-Aug	22,287	not operated before 1994					
1994	10-Jun	29-Jul	34,540	13-Jul	28-Aug	19,450			
1995	16-Jun	25-Jul	24,907	14-Jul	22-Aug	10,241			
1996	7-Jun	28-Jul	23,744	17-Jul	17-Aug	3,101	9-Jul	17-Aug	10,123
1997	12-Jun	26-Jul	24,938	7-Aug	24-Aug	1,488	not operated after 1996		
1998	14-Jun	1-Aug	21,194	15-Jul	23-Aug	1,927			
1999	12-Jun	31-Jul	12,579	not operated after 1998					
2000	10-Jun	4-Aug	19,452						
2001	5-Jun	31-Jul	26,982						

<sup>a</sup> Data from weirs prior to 1960 compiled from United States Fish and Wildlife Service annual reports series from 1930 to 1959 for the Alaska Peninsula/ Aleutians.

Appendix E.3. South Peninsula total indexed salmon escapements by species and year, 1962-2001.

Year	Number of Salmon				Total
	Sockeye	Coho	Pink	Chum	
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	95,300	87,500 <sup>a</sup>	1,598,400	354,700	2,048,400 <sup>b</sup>
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
1998	85,440		4,668,065	742,235	5,495,740
1999	97,000		5,015,000	725,000	5,837,000
2000	69,530		2,792,985	522,075	3,384,590
2001	161,630		2,965,120	751,221	3,877,950 <sup>p</sup>

-Continued-

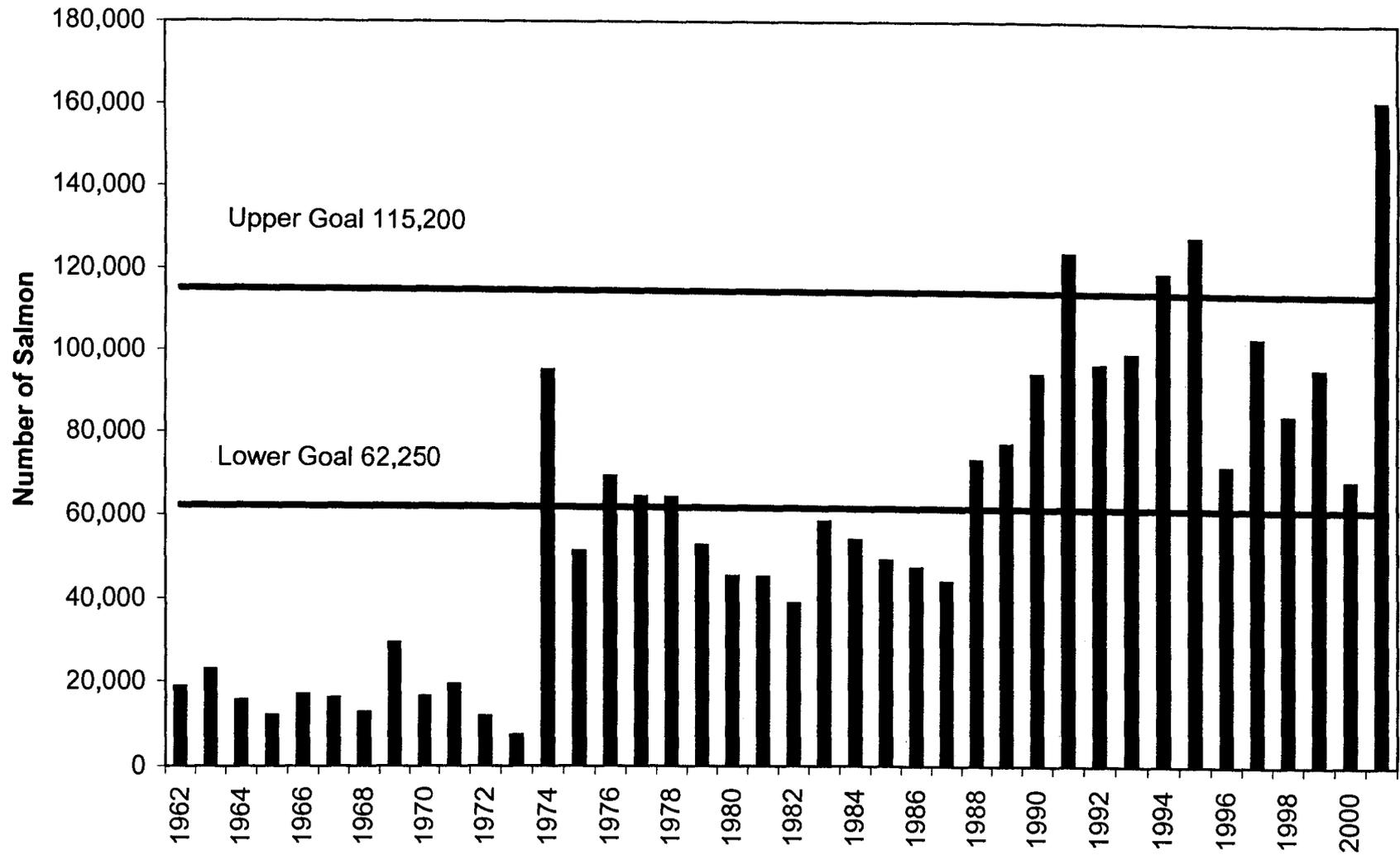
Appendix E.3. (page 2 of 2)

Year	Number of Salmon				Total
	Sockeye	Coho	Pink	Chum	
Average 1962-76 <sup>c</sup>	27,813		957,887	294,400	1,280,100
Average 1977-2000 <sup>c</sup>	75,807		2,952,806	538,666	3,633,317
Average 1991-2000	100,157		3,961,624	603,429	4,665,210

<sup>a</sup> In 1990, excellent survey conditions and a additional funding allowed coho surveys during mid and late September.

<sup>b</sup> The 1990 coho numbers are not included in the total escapement.

<sup>c</sup> 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 E.4. South Peninsula total indexed sockeye salmon escapement by year, 1962-2001.

Appendix E.5. Sockeye salmon daily and cumulative escapement counts through the Orzinski Lake weir, 2001.

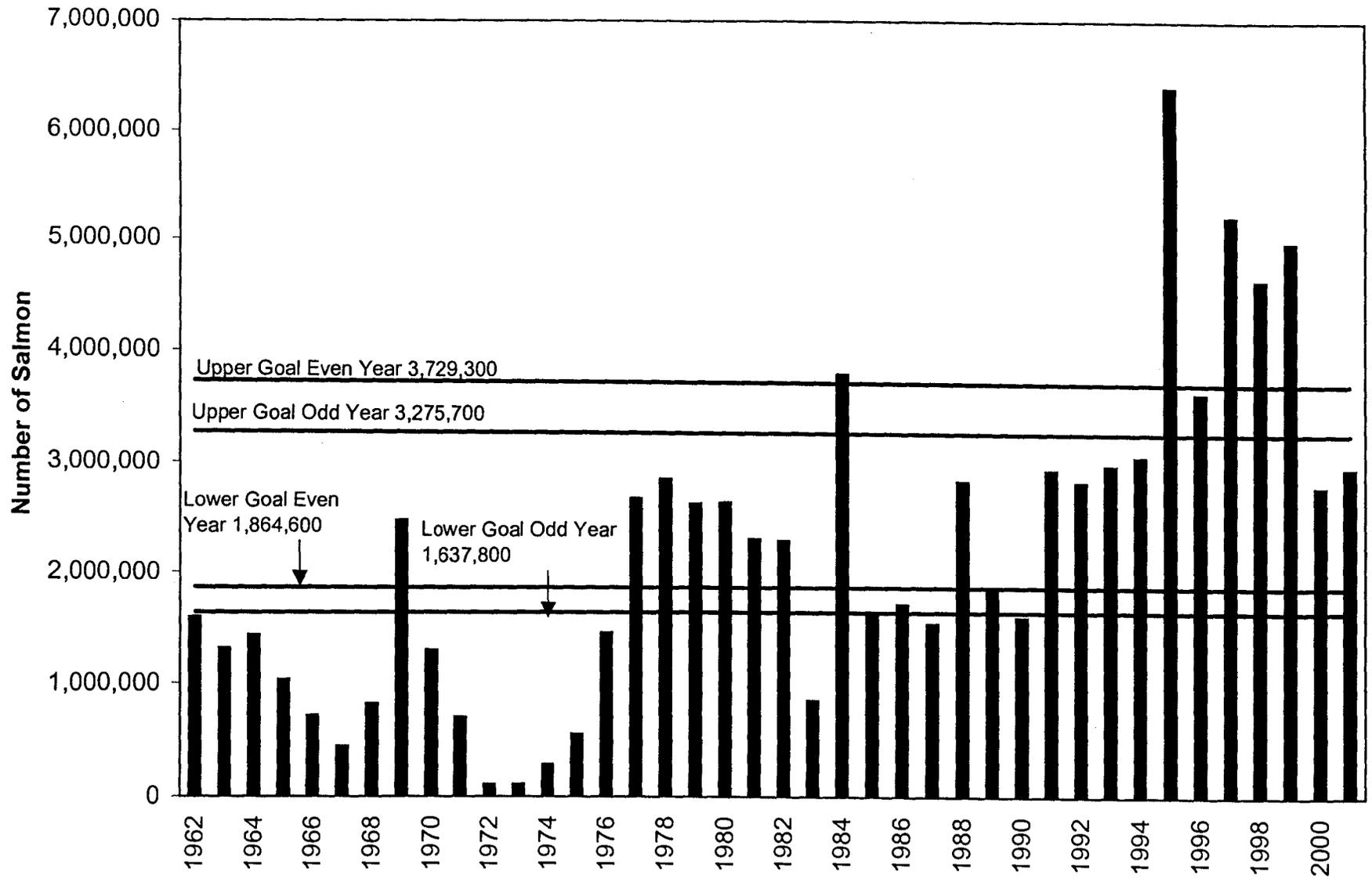
Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
June 5-9	0	0	0	0	0	0
10-Jun	1	0	1	1	0	1
11-Jun	0	0	0	1	0	1
12-Jun	0	0	0	1	0	1
13-Jun	0	0	0	1	0	1
14-Jun	0	0	0	1	0	1
15-Jun	18	0	18	19	0	19
16-Jun	17	1	18	36	1	37
17-Jun	21	1	22	57	2	59
18-Jun	52	1	53	109	3	112
19-Jun	22	0	22	131	3	134
20-Jun	64	2	66	195	5	200
21-Jun	5	0	5	200	5	205
22-Jun	874	18	892	1,074	23	1,097
23-Jun	188	14	202	1,262	37	1,299
24-Jun	0	0	0	1,262	37	1,299
25-Jun	0	0	0	1,262	37	1,299
26-Jun	0	0	0	1,262	37	1,299
27-Jun	1,145	45	1,190	2,407	82	2,489
28-Jun	216	9	225	2,623	91	2,714
29-Jun	0	0	0	2,623	91	2,714
30-Jun	4,070	105	4,175	6,693	196	6,889
1-Jul	656	35	691	7,349	231	7,580
2-Jul	679	43	722	8,028	274	8,302
3-Jul	1,502	110	1,612	9,530	384	9,914
4-Jul	37	9	46	9,567	393	9,960
5-Jul	0	0	0	9,567	393	9,960
6-Jul	343	66	409	9,910	459	10,369
7-Jul	420	41	461	10,330	500	10,830
8-Jul	1,260	124	1,384	11,590	624	12,214
9-Jul	2,064	399	2,463	13,654	1,023	14,677
10-Jul	142	79	221	13,796	1,102	14,898
11-Jul	136	116	252	13,932	1,218	15,150
12-Jul	306	128	434	14,238	1,346	15,584

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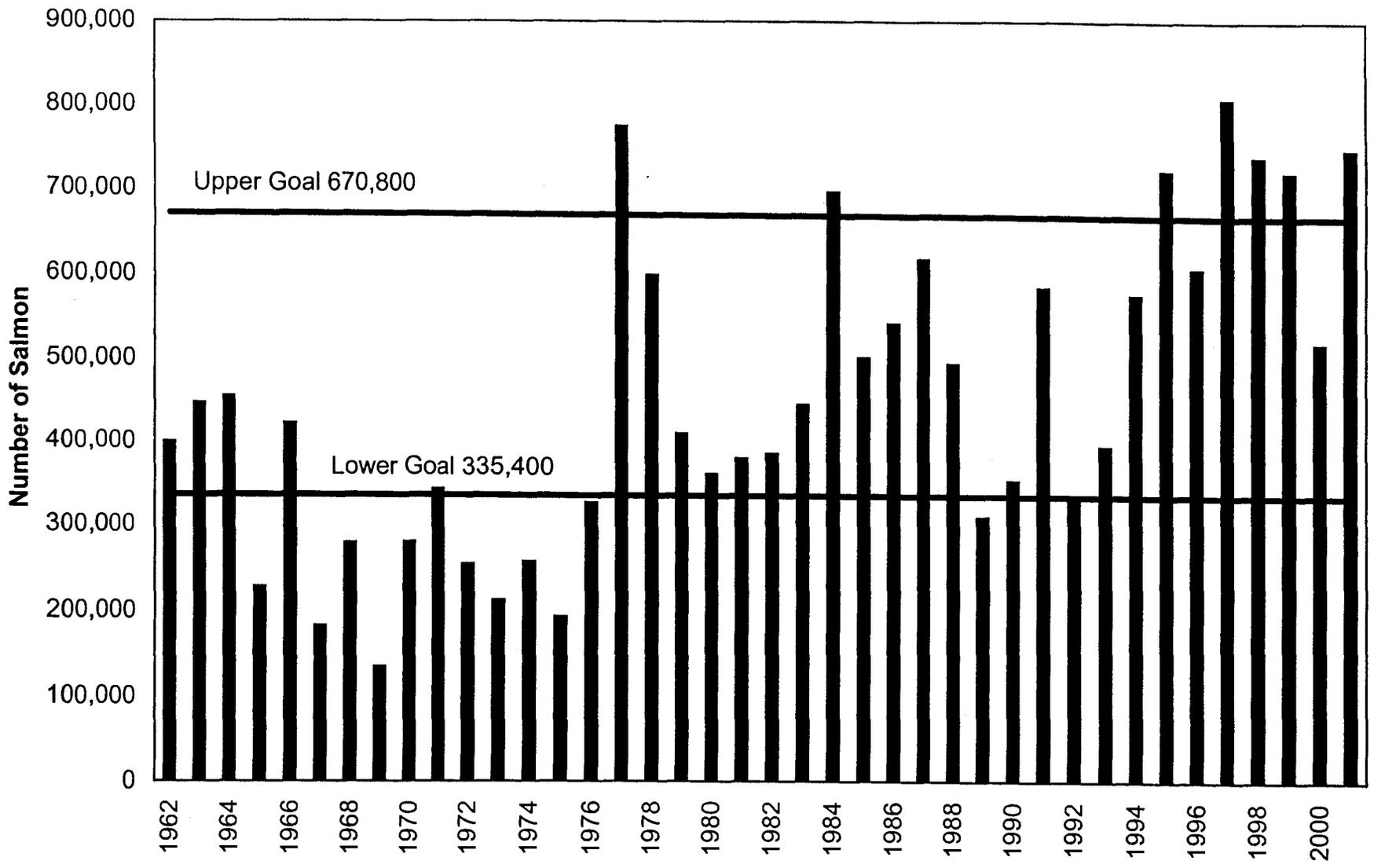
Appendix E.5. (page 2 of 2)

Date	Daily			Cumulative		
	Adults	Jacks	Total	Adults	Jacks	Total
13-Jul	76	29	105	14,314	1,375	15,689
14-Jul	616	276	892	14,930	1,651	16,581
15-Jul	1,406	343	1,749	16,336	1,994	18,330
16-Jul	617	199	816	16,953	2,193	19,146
17-Jul	479	116	595	17,432	2,309	19,741
18-Jul	916	348	1,264	18,348	2,657	21,005
19-Jul	205	127	332	18,553	2,784	21,337
20-Jul	35	70	105	18,588	2,854	21,442
21-Jul	62	52	114	18,650	2,906	21,556
22-Jul	197	119	316	18,847	3,025	21,872
23-Jul	182	109	291	19,029	3,134	22,163
24-Jul	51	25	76	19,080	3,159	22,239
25-Jul	326	184	510	19,406	3,343	22,749
26-Jul	378	148	526	19,784	3,491	23,275
27-Jul	1,247	469	1,716	21,031	3,960	24,991
28-Jul	457	475	932	21,488	4,435	25,923
29-Jul	87	137	224	21,575	4,572	26,147
30-Jul	136	177	313	21,711	4,749	26,460
31-Jul	267	255	522	21,978	5,004	26,982
Post July 31 <sup>a</sup>	2,022	2,196	4,218	24,000	7,200	31,200
<b>Total</b>	<b>24,000</b>	<b>7,200</b>	<b>31,200</b>	<b>24,000</b>	<b>7,200</b>	<b>31,200</b>

<sup>a</sup> July 31 was the last full day salmon were counted through the weir. Post July 31 escapement was based on aerial surveys and adult to jack salmon ratios for the week of July 25-31.



Appendix E. 6. South Peninsula total indexed pink salmon escapement by year, 1962-2001.



Appendix E. 7. South Peninsula total indexed chum salmon escapement by year, 1962-2001.

Appendix E.8. South Peninsula total indexed salmon escapements by species, district, and section, 2001.

District & Section	Number of Salmon <sup>a</sup>			
	Sockeye	Pink	Chum	Total
<b>Southeastern District</b>				
East Stepovak	0	60,550	0	60,550
Stepovak Flats	0	19,800	74,300	94,100
Northwest Stepovak	31,200	262,250	75,510	368,960
Southwest Stepovak	0	67,800	2,400	70,200
Balboa Bay	0	124,300	100,000	224,300
Beaver Bay	0	54,900	45,000	99,900
Shumagin Islands	<u>2,500</u>	<u>257,520</u>	<u>21,090</u>	<u>281,110</u>
<b>Southeastern District Total</b>	<b>33,700</b>	<b>847,120</b>	<b>318,300</b>	<b>1,199,120</b>
<b>South Central District</b>				
Mino Creek-Little Coal Bay	620	704,100	200	704,920
East Pavlof Bay	0	327,800	5,000	332,800
Canoe Bay	1,500	156,600	109,400	267,500
West Pavlof Bay	<u>3,200</u>	<u>4,500</u>	<u>40,900</u>	<u>48,600</u>
<b>South Central District Total</b>	<b>5,320</b>	<b>1,193,000</b>	<b>155,500</b>	<b>1,353,820</b>
<b>Southwestern District</b>				
Volcano Bay	0	108,500	31,500	140,000
Belkofski Bay	0	189,800	70,500	260,300
Deer Island	0	469,200	0	469,200
Cold Bay	17,740	47,416	112,821	177,977
Thin Point	47,900	62,500	33,500	143,900
Morzhovoi Bay	49,000	21,800	28,300	99,100
Ikatan Bay	<u>2,010</u>	<u>19,900</u>	<u>400</u>	<u>22,310</u>
<b>Southwestern District Total</b>	<b>116,650</b>	<b>919,116</b>	<b>277,021</b>	<b>1,312,787</b>
<b>Unimak District</b>				
Otter Cove	0	2,200	400	2,600
Sanak Island	5,960	3,700	0	9,660
<b>Unimak District Total</b>	<b>5,960</b>	<b>5,900</b>	<b>400</b>	<b>12,260</b>
<b>Total South Peninsula</b>	<b>161,630</b>	<b>2,965,136</b>	<b>751,221</b>	<b>3,877,987</b>

<sup>a</sup> No escapement data is available for coho salmon.

Appendix E.9. Orzinski Lake sockeye salmon daily escapement by year, 1990-2001 (page 1 of 2).

Date	Year											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
10-Jun	0	0	0	0	0	0	3	0	0	0	0	1
11-Jun	0	0	0	0	0	0	3	0	0	0	0	0
12-Jun	0	0	0	0	0	0	3	0	0	0	0	0
13-Jun	0	0	0	0	0	0	0	0	0	0	0	0
14-Jun	0	0	0	0	0	0	1	0	0	0	0	0
15-Jun	0	0	0	0	0	0	8	0	0	0	1	18
16-Jun	0	0	0	0	0	3	0	12	0	2	4	18
17-Jun	0	0	0	0	0	0	0	17	0	0	44	22
18-Jun	0	0	0	1	8	3	0	0	11	3	44	53
19-Jun	0	1	0	0	4	11	0	8	0	2	22	22
20-Jun	0	1	0	0	0	28	2	0	14	5	40	66
21-Jun	0	2	0	0	18	28	3	20	8	10	30	5
22-Jun	0	1	0	0	0	111	0	17	0	10	3	892
23-Jun	0	14	0	366	34	63	20	128	14	5	2	202
24-Jun	0	0	0	5	11	17	0	8	43	9	229	0
25-Jun	0	2	205	35	247	5	131	0	0	36	445	0
26-Jun	0	16	1	474	31	9	593	8	105	34	5	0
27-Jun	0	348	295	474	146	32	581	16	820	86	69	1,190
28-Jun	0	3	1,255	184	10	595	218	877	235	21	1,150	225
29-Jun	0	1,839	9	216	7	65	178	70	22	43	801	0
30-Jun	1	638	56	0	0	32	628	86	177	1	10	4,175
1-Jul	3	1,067	241	2,909	269	24	2,985	33	586	276	6,488	691
2-Jul	40	367	685	1,380	26	30	1,020	59	2,381	4	963	722
3-Jul	0	1,080	0	1,394	53	1	3,249	1,738	264	65	191	1,612
4-Jul	0	9,852	2,152	686	17	1,214	3,165	3,050	58	194	161	46
5-Jul	286	2,828	5,285	0	7	110	282	10	79	252	402	0
6-Jul	240	1,845	475	0	108	4,789	425	5,208	62	34	475	409
7-Jul	59	948	201	95	217	128	205	2,504	191	112	592	461
8-Jul	10	380	489	0	331	32	256	246	0	23	660	1,384
9-Jul	0	1,275	274	438	6,203	5,282	617	378	1,135	1,289	384	2,463
10-Jul	123	1,359	227	0	2,482	1,436	637	305	1,092	89	95	221
11-Jul	208	1,511	162	503	3,225	1,692	1,167	57	7	1,110	118	252

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Date	Year											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
12-Jul	860	2,811	476	5	330	2,942	194	99	2,402	846	20	434
13-Jul	0	2,075	393	1,834	494	513	215	135	435	1,289	154	105
14-Jul	3	461	486	286	903	101	333	36	1,246	840	105	892
15-Jul	50	786	821	198	2,415	612	131	1,208	457	556	698	1,749
16-Jul	553	458	113	125	2,795	644	343	964	676	334	492	816
17-Jul	142	1,185	330	276	2,333	1,208	860	348	97	367	6	595
18-Jul	4,573	1,128	906	2,358	1,028	4	720	1,449	5	814	698	1,264
19-Jul	65	938	312	1,224	1,911	265	689	1,251	946	29	210	332
20-Jul	999		648	833	1,679	225	1,837	1,052	482	175	34	105
21-Jul	888		905	1,027	1,498	193	511	1,741	237	123	3	114
22-Jul	228		441	316	552	353	95	1,275	759	166	301	316
23-Jul	282		562	98	1,312	839	77	332	902	247	642	291
24-Jul	749		464	806	1,051	184	312	9	1,167	571	148	76
25-Jul	58		326	1,231	0	84	305	44	719	446	87	510
26-Jul	29		321	0	1,846		24	140	544	443	59	526
27-Jul	8		221	53	426		211		500	656	1,001	1,716
28-Jul	150		147	271	513		513		670	102	46	932
29-Jul	399		358	733					1,232	484	45	224
30-Jul	486		300	143					392	376	83	313
31-Jul	669			271					22		299	522
1-Aug	0			593							684	
2-Aug	47			446							122	
3-Aug	334										87	
4-Aug	230											
5-Aug	526											
6-Aug	169											
Total weir escapemer	13,467	35,219	20,542	22,287	34,540	23,907	23,744	24,938	21,194	12,579	19,452	26,982
Post weir estimate	1,533	4,781	4,458	2,430	3,460	6,093	6,256	10,062	3,806	2,421	2,048	4,218
Total est. escapemen	15,000	40,000	25,000	24,717	38,000	30,000	30,000	35,000	25,000	15,000	21,500	31,200

Appendix E.10. Daily and cumulative sockeye and coho salmon escapement counts through United States Fish and Wildlife operated weir at Mortensen's Lagoon , 2001.

Date	Sockeye		Coho	
	Daily	Cumulative	Daily	Cumulative
1-Jul	11	11	0	0
2-Jul	6	17	0	0
3-Jul	0	17	0	0
4-Jul	0	17	0	0
5-Jul	0	17	0	0
6-Jul	0	17	0	0
7-Jul	0	17	0	0
8-Jul	2	19	0	0
9-Jul	0	19	0	0
10-Jul	0	19	0	0
11-Jul	0	19	0	0
12-Jul	0	19	0	0
13-Jul	1	20	0	0
14-Jul	64	84	0	0
15-Jul	535	619	0	0
16-Jul	27	646	0	0
17-Jul	20	666	0	0
18-Jul	17	683	0	0
19-Jul	37	720	0	0
20-Jul	4	724	0	0
21-Jul	1	725	0	0
22-Jul	31	756	0	0
23-Jul	51	807	0	0
24-Jul	69	876	0	0
25-Jul	13	889	0	0
26-Jul	1	890	0	0
27-Jul	42	932	0	0
28-Jul	4	936	0	0
29-Jul	104	1,040	0	0
30-Jul	3	1,043	0	0
31-Jul	148	1,191	0	0
1-Aug	1	1,192	0	0
2-Aug	331	1,523	0	0
3-Aug	3	1,526	0	0
4-Aug	0	1,526	0	0
5-Aug	1	1,527	0	0
6-Aug	3	1,530	0	0
7-Aug	13	1,543	0	0
8-Aug	2,057	3,600	0	0
9-Aug	92	3,692	0	0
10-Aug	10	3,702	0	0
11-Aug	8	3,710	0	0
12-Aug	74	3,784	0	0

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Appendix E.10. (Page 2 of 3)

Date	Sockeye		Coho	
	Daily	Cumulative	Daily	Cumulative
13-Aug	18	3,802	0	0
14-Aug	1	3,803	0	0
15-Aug	84	3,887	0	0
16-Aug	56	3,943	0	0
17-Aug	10	3,953	0	0
18-Aug	2	3,955	0	0
19-Aug	108	4,063	0	0
20-Aug	18	4,081	0	0
21-Aug	1	4,082	1	1
22-Aug	7	4,089	2	3
23-Aug	3	4,092	0	3
24-Aug	0	4,092	0	3
25-Aug	0	4,092	0	3
26-Aug	21	4,113	0	3
27-Aug	5	4,118	0	3
28-Aug	4	4,122	0	3
29-Aug	1	4,123	5	8
30-Aug	0	4,123	0	8
31-Aug	0	4,123	0	8
1-Sep	60	4,183	3	11
2-Sep	3	4,186	8	19
3-Sep	10	4,196	14	33
4-Sep	16	4,212	11	44
5-Sep	22	4,234	6	50
6-Sep	4	4,238	7	57
7-Sep	8	4,246	8	65
8-Sep	14	4,260	14	79
9-Sep	2	4,262	0	79
10-Sep	4	4,266	180	259
11-Sep	0	4,266	1,535	1,794
12-Sep	0	4,266	343	2,137
13-Sep	0	4,266	55	2,192
14-Sep	0	4,266	29	2,221
15-Sep	0	4,266	565	2,786
16-Sep	0	4,266	211	2,997
17-Sep	0	4,266	173	3,170
18-Sep	0	4,266	236	3,406
19-Sep	0	4,266	317	3,723
20-Sep	0	4,266	685	4,408
21-Sep	0	4,266	313	4,721
22-Sep	0	4,266	17	4,738
23-Sep	0	4,266	24	4,762
24-Sep	0	4,266	13	4,775
25-Sep	0	4,266	4	4,779
26-Sep	0	4,266	18	4,797

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Appendix E.10. (Page 3 of 3)

Date	Sockeye		Coho	
	Daily	Cumulative	Daily	Cumulative
27-Sep	0	4,266	16	4,813
28-Sep	0	4,266	2	4,815
29-Sep	0	4,266	0	4,815
30-Sep	0	4,266	5	4,820
1-Oct	0	4,266	4	4,824
2-Oct	0	4,266	0	4,824
3-Oct	0	4,266	0	4,824
4-Oct	0	4,266	5	4,829
5-Oct	0	4,266	35	4,864
6-Oct	0	4,266	80	4,944
7-Oct	0	4,266	26	4,970
8-Oct	0	4,266	50	5,020
9-Oct	0	4,266	36	5,056
10-Oct	0	4,266	11	5,067
11-Oct	0	4,266	11	5,078
12-Oct	0	4,266	2	5,080
13-Oct	0	4,266	0	5,080
14-Oct	0	4,266	3	5,083
15-Oct	0	4,266	1	5,084
16-Oct	0	4,266	37	5,121
17-Oct	0	4,266	115	5,236
18-Oct	0	4,266	36	5,272
19-Oct	0	4,266	5	5,277
20-Oct	0	4,266	2	5,279
21-Oct	0	4,266	0	5,279
22-Oct	0	4,266	0	5,279
23-Oct	0	4,266	0	5,279
24-Oct	0	4,266	0	5,279
25-Oct	0	4,266	0	5,279
26-Oct	0	4,266	0	5,279
<b>Total</b>		<b>4,266</b>		<b>5,279</b>

Note: Counts may be low due to salmon going around and over the weir especially early in the season.

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