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KODIAK MANAGEMENT AREA COMMERCIAL SALMON
ANNUAL MANAGEMENT REPORT, 1993

By

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INTRODUCTION

Annual Management Reports of Kodiak Management Area (KMA) commercial salmon fisheries have been compiled since statehood. These reports are intended to provide an overview of the area, the history of the commercial fishery, the status of the salmon resources, a synopsis of the current management, the specifics of the year's management actions, salmon escapements, and harvest. In 1993 KMA management was reviewed by the Alaska Board of Fisheries (BOF), with various reports regarding KMA salmon fisheries generated. To provide consistency with past KMA annual salmon reports this document contains much of the information presented to the BOF in Regional Information Report 4K94-8, *An Overview of the Kodiak Management Area Commercial Salmon Fisheries* (Brennan et al, 1994).

Kodiak Management Area Location and Boundaries

The Kodiak Management Area (KMA) is comprised of the waters of the western Gulf of Alaska surrounding the Kodiak Archipelago, and along that portion of the Alaska Peninsula which drains into Shelikof Strait between Cape Douglas and Kilokak Rocks at Imuya Bay (Figure 1). To the north of the KMA lies the Cook Inlet Management Area, and to the southwest lies the Chignik Management Area. The Kodiak Archipelago is approximately 150 miles long extending from Shuyak Island south to the Trinity Islands. The Alaska Peninsula portion is about 160 miles long and is separated from the archipelago by Shelikof Strait which averages 30 miles in width. Chirikof Island, located approximately 40 miles south southwest of the Trinity Islands, is also included in the Kodiak Management Area. The regulatory description of the KMA is all waters of Alaska south of a line extending east from Cape Douglas at 58°52' North latitude, west of 150° West longitude, north of 55°30' North latitude, and east of a line extending south from the southern entrance of Imuya Bay near Kilokak Rocks at 156°20'13" West longitude¹. Regulations prohibit commercial salmon fishing in the KMA outside of the State of Alaska's Territorial Sea; that is, beyond the "three mile limit", as shown on NOAA nautical charts.

SALMON RESOURCES

There are 5 species of salmon native to the KMA, including: chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, pink *O. gorbuscha*, chum *O. keta*, and coho *O. kisutch* salmon.

Salmon Producing Streams

There are approximately 800 streams within the KMA in which salmon migration or spawning has been documented (State of Alaska 1993a). Of these, 440 streams are shown on the current

¹ All latitudes and longitudes currently used in ADF&G Commercial Fishing Regulations are based on North American datum of 1927 (5 AAC 39.997(b)). This document also follows that system.

Kodiak Area Salmon Statistical Area Map (Figure 2 and Appendices A.1-A.8). Three streams support viable chinook salmon stocks, 38 streams support sockeye salmon stocks of extremely varying size, 174 have coho salmon runs, approximately 150 have chum salmon runs, and all 440 streams support pink salmon stocks. Of these streams 92 are located in the Mainland District on the Alaska Peninsula, 18 are on Shuyak Island, 84 are on Afognak Island, 234 are on Kodiak Island, and 12 are on the Trinity Island group (Table 1).

Biological Escapement Goals

The Alaska Department of Fish and Game (ADF&G) Commercial Fisheries Management and Development Division (CFMADD) Kodiak salmon management and research staff have established biological escapement goals, or the annual number of spawning salmon required inriver to sustain production, for each salmon species. Escapement goals are expressed as a range; the low end of the range is considered a minimum escapement, and the high end of the range is the maximum escapement goal (Table 2). These escapement goals have been formulated for sockeye, pink, and chum salmon by river system (Appendices B.1-B.3). Escapement goals have also been prepared for most coho and major chinook salmon producing streams (Appendices B.4-B.6).

The KMA commercial salmon fisheries are managed to achieve escapement levels which are within the biological range. The overall "targeted" escapement goals for KMA salmon are: 15,000 chinook, 2,100,000 sockeye, 3,000,000 to 4,500,000 pink², 1,020,000 chum and 150,000 coho salmon.

Salmon Production Potential (Wild Stocks)

An "average salmon production potential" for the KMA can be calculated by multiplying the targeted escapement goal by an assumed average return per spawner, for each species. The annual "potential harvest" is calculated by subtracting the targeted escapement goal. Assuming that targeted escapement requirements, and average return per spawner values for each species are achieved, the potential annual average salmon harvest are estimated to be 23,000 chinook, 3,150,000 sockeye, 7,500,000 to 11,250,000 pink, 1,800,000 chum, and 225,000 coho salmon (Table 3). However, due to the variable environmental conditions encountered throughout the life cycle of these species, fluctuations in salmon survival and subsequent production will occur.

² Pink salmon production in individual systems tend to be large one year, then small the next. On Kodiak there has been an "even year dominance"; that is, during even numbered years the major pink salmon systems produce larger returns. Hence the escapement goal is different between odd and even years, with odd numbered years having lower goals, and even years having higher goals.

Supplemental Production

There are two hatcheries located in the KMA which produce salmon to supplement natural salmon production (Figure 3). Both hatcheries, Kitoi Bay and Pillar Creek, are operated by the Kodiak Regional Aquaculture Association (KRAA). Kitoi Bay Hatchery has a rearing capacity of 230,000,000 eggs, and is located on the east side of Afognak Island. The Kitoi Bay facility produces primarily pink salmon, however sockeye, chum, and coho salmon are also cultured. Some outstocking of coho and sockeye fry or smolt occurs, but the majority of the salmon are intended to return to the hatchery for common property harvest. Pillar Creek Hatchery, with a rearing capacity of 20,000,000 eggs, is located north of the city of Kodiak at Monashka Bay. It is utilized primarily as an incubation facility for sockeye salmon to be stocked in Spiridon Lake.

In the *Kodiak Regional Comprehensive Salmon Plan* the Kodiak Regional Planning Team (KRPT)³ stated the objective of increasing the harvest of salmon (over and above the KMA wild salmon harvest) by an additional 3,000 chinook, 1,700,000 sockeye, 383,000 coho, 11,500,000 pink, and 1,100,000 chum salmon by the year 2002 (KRPT, 1992). The next section, "Salmon Stock Status", contains additional information.

SALMON STOCK STATUS

Chinook Salmon

The Kodiak area has two natural runs of chinook salmon returning to the Ayakulik and Karluk Rivers. A small introduced chinook salmon run occurs in the Dog Salmon River. There are no directed commercial fisheries targeting these stocks and any commercial harvest occurs incidentally in fisheries targeting sockeye and pink salmon. Sport fishing pressure on chinook salmon runs in the Ayakulik and Karluk Rivers is increasing, as commercial sport fish operators and recreational anglers continue to discover fishing opportunities in the Kodiak area. Sport fishing for chinook salmon in the Dog Salmon River is prohibited, to aid establishment of a viable spawning stock.

A chinook run also occurs at Pasagshak River, as a result of past enhancement programs. The Pasagshak River chinook enhancement was begun in the late 1970's using Chignik River broodstock to start a chinook run accessible by road to Kodiak sport fishers. The productivity of this run has been less than expected, and chinook sport fishing has remained closed in Pasagshak River. Since 1989 ADF&G Sport Fish Division annually stocked up to 100,000 chinook salmon smolt from the Elmendorf Hatchery (in Anchorage) into Island and Mission Lakes near the city of Kodiak to enhance sport fishing opportunities (Schwarz, 1994). This introduction was designed to support a put-and-take recreational fishery.

³ The RPT is a group consisting of representatives of ADF&G, regional aquaculture associations, and the public, mandated by Alaska Statutes (16.10.375-470) to develop and amend comprehensive salmon production plans for salmon production regions.

Currently, chinook salmon stocks are considered very healthy. Minimum escapement requirements have been met annually since 1982, and the upper end of the escapement range has been met or exceeded each year since 1987 (Table 4, Figure 4). Harvests have increased as well, for the subsistence, sport, and commercial fisheries (Tables 5, 6, and 7). Over the last 10 years, the commercial harvest has averaged approximately 15,200 chinook salmon (Figure 5).

Sockeye Salmon

There are 38 known sockeye salmon runs in the KMA. Large returns (greater than 500,000 fish) occur in four systems: Karluk, Ayakulik, Upper Station, and Frazer (Dog Salmon River) systems. The Karluk, Ayakulik, and Upper Station systems support naturally occurring runs, while the Frazer Lake sockeye stock is a successfully introduced run. There is a large series of falls below Frazer Lake which blocks natural migration; thus this run is maintained through the use of a large "fish ladder".

These systems provide approximately 80% of current KMA sockeye salmon production. Directed fisheries on these stocks are intense and require extensive management from June 5 through September 20. The Karluk and Upper Station systems have distinct early (May 25 through July 15) and late returns (July 16 through September 20). Frazer is primarily an early returning stock with most sockeye entering fresh water by July 20. Ayakulik also has an early returning stock which continues into mid August. The overall escapement goals for these four major systems have been achieved annually since 1988.

Twelve sockeye systems in the KMA have minor but significant runs. These include the Afognak, Uganik, Akalura, Saltery, Kafliia, Pauls, Buskin, Swikshak, Little River, Malina, Thorsheim, and Perenosa systems. These systems annually account for approximately five percent of KMA's current sockeye salmon production. Escapement into each system is generally less than 60,000 sockeye salmon. These minor stocks offer a relatively high yield per unit effort to directed commercial seine effort, and so, are vulnerable to overexploitation. The exception is the sockeye salmon run into Buskin Lake, which is not targeted by a commercial fishery. Buskin sockeye salmon in excess of escapement requirements are currently harvested in a subsistence fishery and, to a lesser degree, in a recreational sport fishery. All these minor sockeye salmon stocks are considered to be moderately healthy with the exception of Akalura, Malina, Pauls, and Perenosa. Conservative management is applied to these systems.

The remaining 20 systems are comparatively minor systems and are not usually exploited by directed commercial effort.

The Kodiak Regional Planning Team established sockeye as the priority species for supplemental production (KRPT 1992). Currently, the Kodiak Regional Aquaculture Association (KRAA) in conjunction with ADF&G is active in providing additional sockeye salmon production, both by introducing sockeye runs into previously unutilized lakes and by enhancing weak natural runs. KRAA and ADF&G are conducting fishery and limnological studies of KMA lakes and lake fertilization to increase sockeye salmon fry growth and survival. Lake fertilization has been conducted on the Afognak, Malina, Pauls, Perenosa, Little Waterfall, Frazer, and Karluk systems.

Through the use of remote egg takes and hatchery incubation, sockeye salmon fry are being stocked to enhance future sockeye salmon harvest potential. Currently stocking of sockeye salmon is occurring at Spiridon, Hidden, Crescent, Jennifer, and Waterfall Lakes (Figure 3).

Overall, KMA sockeye stocks are moderately healthy. The minimum escapement goal for KMA sockeye salmon has been achieved annually since 1984 (Table 4, Figure 6). Commercial harvest has averaged 3,220,300 sockeye salmon over the 1983-1993 period (Table 7, Figure 7).

Pink Salmon

All salmon streams within the KMA support pink salmon runs. Pink salmon represent the foundation of Kodiak salmon production, and may comprise over 80% of the total annual salmon harvest (Table 7). Primarily due to the cyclic production from Ayakulik and Karluk Rivers, KMA pink salmon runs are usually larger during the even numbered years. However since 1989 odd year production has surpassed even year production⁴. Pink salmon survival and subsequent returns are strongly influenced by environmental factors (Groot and Margolis 1991). Wild stock pink salmon production should remain above average as long as there is adequate escapement and adverse environmental conditions do not persist. The long term outlook for Kodiak's wild pink salmon stocks is very good.

The Kitoi Bay Hatchery on Afognak Island primarily produces pink salmon, plus some sockeye, chum, and coho salmon. The hatchery has a rearing capacity of 230,000,000 eggs. All pink fry are released at Kitoi Bay and are intended to return to the hatchery for common property harvest. In recent years pink salmon harvests in the management units associated with the hatchery have ranged from approximately 1,000,000 to 13,000,000 fish.

Except for occasional local variations, KMA pink salmon stocks are considered very healthy. Minimum escapement goals have been met or exceeded in each year since 1975 (Table 4, Figure 8). Over the last 10 year (1983-1993) period, the annual harvest has averaged 11,403,200 pink salmon; even year pink salmon harvest has averaged 9,271,200, odd year pink salmon harvest averaged 13,535,300 (Table 7, Figure 9).

Chum Salmon

Chum salmon are present in at least 150 streams of the KMA. KMA chum salmon production has been variable, and has been at low levels for the past 2 years.

The Kitoi Bay Hatchery is developing an early run chum salmon return to the hatchery. The majority of the chum salmon currently returning to the hatchery are needed for broodstock.

The future status of this species is expected to be very good. Escapement estimates have been near or above the targeted goal in only 2 of the past 10 years, though the minimum escapement

⁴ Kodiak odd year pink salmon production was generally greater than even year production prior to 1948. The mechanism which has led to switches in odd vs. even year dominance are not known.

goal has been achieved in 9 of the past 10 years⁵ (Table 4, Figure 10). The annual commercial harvest has averaged 828,300 chum salmon since 1983 (Table 7, Figure 11).

Coho Salmon

Approximately 174 systems have been identified as supporting coho runs in the KMA. Twenty percent of KMA coho salmon systems (35 streams) produce 80% of the total KMA production. In the other 80 percent (135 streams) coho runs are relatively small. In recent years, coho salmon have experienced a large increase in exploitation by subsistence, sport, and commercial users within the KMA (Tables 5, 6, and 7).

The Kitoi Bay Hatchery produces coho salmon for return to the hatchery. Current returns are needed for broodstock, with little commercial harvest. Coho salmon smolt are also produced for stocking, to provide additional sport and subsistence fishing opportunities. ADF&G Sport Fish Division annually stocks coho salmon smolt to enhance sport fishing opportunities (Schwarz 1994). Coho salmon smolt have been stocked into Crescent, Island, Kalsin, Mayflower, Dark, Mission, Orbin, and Potato Patch Lakes near the city of Kodiak, into Crescent Lake near the city of Port Lions, into Ouzinkie lake on Spruce Island near the city of Ouzinkie, and into Little Kitoi, Hidden, and Jennifer Lakes on Afognak Island. Most of these coho salmon stockings are intended to produce put-and-take fisheries, where all returning adults are expected to be harvested since they can not access viable spawning locations.

Most coho stocks appear healthy. The escapement goal for this species has been achieved annually since 1983 (Table 4, Figure 12). Over the past 10 years (1983-1993) commercial harvests have averaged 254,800 coho salmon (Table 7, Figure 13).

"Non Local" Salmon in the KMA

Salmon tagging studies have documented Chignik and Cook Inlet bound sockeye salmon migrating through KMA waters⁶. These studies were conducted in the KMA to aid management of commercial fisheries through studies of stock composition present at a particular time and place, and to determine average travel time of major stocks through fishery management units. The earliest tagging study was done in 1927 (Rich and Morton 1929) with intermittent studies continuing through 1981 (Bower 1941; Bevan 1959; Simon et al. 1969; Nicholson 1978; Tyler et al. 1986). Most tagging studies occurred along the south and west sides of the Kodiak Archipelago to determine the migration routes of sockeye salmon travelling to the major systems of Kodiak Island (Karluk, Ayakulik, Upper Station, and Frazer). Some sockeye salmon tagging

⁵ Low escapement counts for chum salmon may be related to factors other than absolute abundance. Complete estimations may be hampered by difficulties associated with surveying chum salmon populations.

⁶ Also, salmon tagging studies conducted along the southwestern Alaska Peninsula and in Cook Inlet have documented that salmon bound for KMA systems migrate through Chignik and Cook Inlet Management Areas (Rich and Morton, 1929; Tyler and Noerenberg 1961).

was done along the north and east sides of the archipelago (Tyler et al. 1986) and at the south west end of the KMA, along the Alaska Peninsula near Wide Bay (Simon et al. 1969).

Due to variability in run strength and timing, and particularly due to unpredictable variation in migration patterns, it is impossible to forecast the potential contribution of nonlocal salmon to the Kodiak commercial salmon fisheries. It is difficult, at best, to estimate the actual number of nonlocal salmon taken in Kodiak waters. Recent stock composition studies have been conducted in the KMA analyzing scale pattern, run timing, and shifts in average weights of commercial catches (Barrett and Swanton 1992; Barrett and Nelson 1994; Swanton and Nelson 1994; Vining and Barrett 1994). KMA spawning chinook, sockeye, and chum salmon have been sampled to establish baseline data for genetic stock identification.

The Alaska Board of Fisheries has passed into regulation two management plans which limit sockeye salmon catches in portions of the KMA, to limit the harvest of nonlocal salmon which may be present (the Cape Igvak Management Plan and the North Shelikof Sockeye Salmon Management Plan). There has recently been some concern expressed on the number of nonlocal sockeye and chinook salmon which may be taken in other portions of the KMA.

COMMERCIAL SALMON HARVEST

The salmon resources of the KMA have been exploited commercially for over 150 years (Roppel 1986). The first commercial fisheries were small salted salmon ventures by the occupying Russians in the early 1800's. Salmon streams were blocked and salmon captured as they became schooled behind these barriers. Sockeye salmon returning to the Karluk River brought fishermen and processors to Kodiak soon after the territory was transferred to the United States from the Russians in 1867. Commercial salmon harvest records date back to 1882 (Table 7). Intense competition led to expansion of the fishery to other areas and species. By the early 1900's fisheries for coho, pink, and chum salmon had developed.

Commercial Fishing Permits and Gear Use

There are 613 commercial salmon permits for the KMA: 387 purse seine (making this the second largest purse seine fleet in the state), 36 beach seine, and 190 set gillnet. Actual numbers of permits fished annually varies somewhat, likely due to preseason perceptions of forecasted run strength and price (Table 8 and Figure 14). Over 75% of KMA permits are owned by Alaska state residents, with ownership varying little since 1985 (Table 9). About 61% of all permits, and 79% of Alaskan held permits, are owned by Kodiak area residents, from all communities (Table 10).

Management Units

The KMA is one of 13 designated salmon net registration areas in the State of Alaska. Inseason management of the commercial salmon fishery is structured around 7 districts subdivided into 52

sections (Figure 2 and Appendices A.1-A.8). These sections are occasionally subdivided inseason to adjust fishing effort on unexpected salmon surpluses or deficits. Each management unit (section) defines a traditional geographic harvest area, managed for specific stocks or traditional fishing patterns.

Legal Commercial Gear Areas

In the KMA there are restrictions on which gear types can operate in specific management units, based on historical gear use patterns (Appendix C). Both purse and beach seine gear are allowed to operate in the entire management area, except for the Moser-Olga Bay Section of the Alitak Bay District, where set gillnets is the only legal gear for much of the season⁷ (Appendix A.4). In the Central Section of the Northwest Kodiak District both set gillnet and seine gear are allowed (Appendix A.3). Since 1974, the geographical areas currently open to specific gear types have, with few notable exceptions, remained unchanged.

Commercial Salmon Processing

Up to 15 salmon buyers or processors participate annually in KMA salmon fisheries. Processing plants are located in the city of Kodiak, Port Bailey, Uganik Bay, Larsen Bay, and Alitak Bay (Figure 3). The latest estimate of the sustained processing capacity of Kodiak's shorebased salmon processors is approximately one million salmon per day. With this high processing capacity, it is common for Kodiak processors to "import" salmon harvested elsewhere in the state. At times, salmon from Bristol Bay, Cook Inlet, Prince William Sound, Alaska Peninsula, and Chignik Management areas are processed in Kodiak plants.

Staff

Currently, the ADF&G Commercial Fisheries Management and Development Division is responsible for the management of commercial harvest activities on Alaska's salmon stocks. KMA staff responsible for regulation of the commercial salmon fishery consists of an Area Management Biologist, two Assistant Area Management Biologists, and approximately 15 seasonal employees. The Kodiak salmon research staff includes an Area Research Biologist and approximately 10 seasonal employees. A Regional Salmon Management Coordinator and a Regional Salmon Research Biologist oversee these operations (Appendix D.1). The Kodiak salmon development staff (formerly the Fisheries Rehabilitation and Enhancement Division) includes an Area Biologist, and Assistant Area Biologist, and approximately 10 seasonal employees (Appendix D.2.). ADF&G KMA staff run a number of field projects to collect data necessary for the management of the salmon resources (Appendix D.3). Biologists and

⁷ Prior to Alaska being granted statehood, this management unit was designated set gillnet only. In 1970 this was amended so that the Moser-Olga Bay Section is a set gillnet only area prior to September 5. After September 4 seine gear is legal in the entire Alitak Bay District. The Dog Salmon Flats, Inner and Outer Akalura, and the Inner and Outer Upper Station Sections are normally closed to commercial fishing. In the event of over escapement "mop up" fisheries can occur in these sections. Prior to September 5 only set gillnet gear would be allowed in these sections.

technicians from the Division of Sport Fish, Alaska State Parks, U.S. Fish and Wildlife Service (Kodiak National Wildlife Refuge), and KRAA, aid in the collection of data during the salmon fishing season.

Preseason Activities

Forecasts

Preseason forecasts of the salmon runs are developed jointly by management and research biologists. Pink salmon returns to the KMA are predicted by broad geographic area, while individual forecasts are made for major sockeye salmon stocks. Projected harvests are estimated by fishery and area (Table 11).

The KMA pink salmon forecast is based on a preemergent pink salmon sac fry survival study. This study has been conducted each spring by the KMA management staff since 1966. This annual program examines pink salmon egg overwinter survival in specific streams during March and April. Specific spawning sites in important "index" streams are visited annually. Sample areas of the spawning beds are hydraulically excavated, and all eggs and fry within are collected and counted. Data (ie. the number of live fry) are compared to previous year's results to develop a preseason forecast of return and potential harvest. The KMA pink salmon forecasts are reliable in projecting extremes for major systems and total production. This forecast assists fishery managers in making preseason decisions concerning fishing time and areas open to fishing, especially during the early portion of the pink salmon run (Appendix E.1-E.3).

System specific sockeye salmon forecasts are developed for major stocks: Karluk early and late runs, Ayakulik, Frazer, and Upper Station early and late runs (Appendix E.4-E.9). Information which is used to develop these forecasts are: previous run strength information (escapement and catch); sockeye salmon smolt outmigration data; samples of sockeye salmon escapement and commercial catch for sex and length data; and collection of sockeye salmon scales for age determination. Minor system returns are forecasted by the Area Management Biologist, based on previous escapements and observed escapement/return relationships. Also included are estimates of the number of Chignik and other unassigned sockeye salmon which may be harvested in the KMA, in accordance with established management plans (Table 11).

Formal forecasts are not prepared for chum, chinook, or coho salmon. Similarities do exist between pink and chum salmon freshwater and early marine survival, so pink salmon forecasting information (fry overwinter survival estimates) is used along with escapement data to predict chum salmon production. Potential harvest of chum, chinook, and coho salmon is estimated by the Area Management Biologist based on previous escapements and observed escapement/return relationships (Table 11).

Inseason Activity

By regulation, the commercial salmon fishing season in the Kodiak Management Area may extend from June 5 through October 31 (State of Alaska 1993b). Inseason management activities

focus around daily evaluations of actual run strength in comparison to preseason expectations (forecasts) by species. Commercial salmon fisheries may be allowed if there appears to be salmon surplus to escapement needs.

Escapement Estimation

The majority of KMA sockeye and all chinook salmon escapement counts are obtained with the use of fish weirs (Brodie 1993). Weirs are used on up to 14 different spawning systems. Escapement counts through fish weirs are hand tallied total counts, by species. Sonar, video, or timed periodic counts are not used. Escapement gates are closed when personnel are not present to count. All four major sockeye salmon systems and several of the minor sockeye salmon systems have been monitored through the use of fish weirs. The remainder are monitored by aerial observation using small fixed wing aircraft. Escapement counts are transmitted daily from fish counting weir stations to the Kodiak office via single side band radio. Timely and accurate data from weir camps allows for precise stock specific management.

While some KMA pink, chum, and coho salmon escapement counts are obtained from weirs, most escapement information for these species is estimated by aerial survey, and a few streams are surveyed by foot. Aerial survey and foot survey counts are considered an index of the actual escapement, for use inseason to aid fishery management⁵. Salmon buildup estimates and escapement index counts are collected from frequent fixed wing aircraft surveys of KMA bays and streams.

Prosecuting and Monitoring Commercial Fisheries

Since 1971 actual fishing time has been regulated inseason based on actual run strength, through the use of Emergency Orders (EO) and News Releases (NR). With analysis of all available data, the KMA management biologist writes an EO which describes details for upcoming or continued commercial salmon fishing periods (specific details of when and which areas will open to fishing). The EO describes the starting date, time, and duration of the fishery along with the geographical areas (Districts, Sections, or subsections) which are opened or closed to fishing, and in effect creates a new regulation. A News Release is then issued which publicly announces the fishery.

The management staff's inseason duties include daily contact with all salmon buyers to obtain current harvest information by area and species. Also, staff have daily contact with fishermen to discuss run strength and distribution along with obtaining feedback concerning inseason management activities. As the season progresses, copies of fish tickets (harvest report for an individual landing) are collected from processors and tenders, and this information is entered into a computer database. Inseason fish ticket summaries are made and compared to previous verbal reports to refine the catch estimate to date.

⁵ Expansion of index counts to better estimate total return strength can be accomplished by various methods, and is done postseason by research staff. All escapement values in past Annual Management Reports are total counts from weir plus index counts, and this document follows that pattern.

Additional inseason information on returning sockeye salmon run strength in the Alitak Bay District (the Frazer and Olga Lake stocks) is obtained from an ADF&G test fishery in Olga Narrows. A 50 fathom gillnet is fished each day for a set time in a set location. Results are compared with past test fisheries and known returns, to help predict the number of salmon passing through Olga Narrows.

Commercial Salmon Harvest Strategy

There is a general chronology related to salmon run timing by species within the KMA (Figure 15). Generally, there are "early run" sockeye salmon present in the KMA throughout June to approximately mid July, and "late run" sockeye salmon are available from mid July through early September. Pink and chum salmon are available from July through August. Coho salmon are present in the KMA from approximately August through October. Commercial salmon fisheries are structured around the seasonal abundances of salmon (Table 12). Inseason management actions are structured to adhere to a generalized plan described in an annually issued "Harvest Strategy". This strategy recognizes a specific chronology of management actions related to salmon run timing by species. From June through early July the primary management species on which fisheries are targeted is sockeye salmon, with some concerns for local early run chum stocks; from early July through mid August the primary management species is pink salmon, with local areas managed specifically for local sockeye or chum salmon stocks; from mid August through early September late run sockeye and chum salmon are the primary management species, with targeted coho salmon fisheries management occurring after early September.

Board of Fisheries Approved Regulatory Management Plans

Guiding the KMA staff are several Alaska Board of Fisheries (BOF) approved "Management Plans" (MP) that describe biological and allocative constraints which the management staff must follow when structuring commercial salmon fisheries. Seven regulatory MPs were in effect for the KMA in 1993 (Table 13). These plans are part of the Kodiak Area Commercial Salmon Fishery Regulations (Appendix C). These management plans reflect traditional fishing opportunities and the subsequent harvest allocations which have resulted between and within gear types participating in specific fisheries.

Three plans establish in regulation the harvest strategies which have developed over time to maintain the biological integrity of local salmon stocks and the allocative concerns of local fishers: the Alitak Bay District MP, the Westside Kodiak MP, and the Eastside Afognak MP. Two plans affect Kodiak purse seine fishers ability to target on salmon migrating through the KMA to spawning systems in the Chignik and Cook Inlet Management Areas: the Cape Igvak MP and the North Shelikof Strait Sockeye Salmon MP. Two plans allocate stocked salmon from put-and-take fisheries developed by ADF&G and KRAA: the Crescent Lake MP, and the Spiridon Bay MP. Normally the intent of these plans is that salmon should be harvested as much as possible in "traditional" fisheries located in the management units covered by the plans.

1993 GENERAL SEASON SUMMARY

Forecast

Salmon returning to Kodiak in 1993 originated from the sockeye escapements achieved in 1987 through 1989 (Table 14), chinook escapements achieved in 1987 through 1989, the pink salmon escapements in 1991, the chum salmon escapements in 1988 to 1990, and the coho salmon escapements in 1989 and 1990. For pink salmon, a near record harvest of 15.1 million wild pink salmon (range 13.5 to 16.7), and a record 6.5 million harvest of hatchery produced pink salmon (range 1.8 - 7.7), was predicted. The total 1993 KMA pink salmon harvest was forecasted at 21.6 million (Appendix E.1.). The forecasted commercial harvest of sockeye salmon was 2.21 million fish, which included formal forecasts of the major sockeye systems of Ayakulik, Frazer, Upper Station, and Karluk (Appendix E.4.- E.9.), plus estimated harvests from minor sockeye systems, from Cape Igvak harvest of Chignik bound sockeye salmon, and others (Table 11). Also, the forecast called for a harvest of 1.2 million chum, 21 thousand chinook, and 290 thousand coho salmon (Table 11). These figures include supplemental production from enhancement projects operated by ADF&G and KRAA (Table 15)

Harvest Strategy

The Kodiak Area Commercial Salmon Fishery Harvest Strategy, 1993, RIR 4K93-21, (Prokopowich et al. 1993) was released on 26 May 1993. This document contained a synopsis of the expected chronology of the 1993 commercial salmon fisheries by species, projections on expected escapements and the expected harvest, an overview of new regulations in effect in 1993, and a rundown of the regulatory plans which guide management throughout the season.

The harvest strategy listed the initial opening date of the salmon fishery, targeting early run sockeye salmon, as June 9. This was to be a 33 hour test fishery (no extensions), to allow management an opportunity to use the commercial catch as an indicator of the sockeye salmon run strength. The areas to be opened included the Alitak Bay District, and the Northwest Kodiak District, and the results of this commercial test fishery were to be used as a management tool to aid in evaluating the actual return strength of the Karluk, Ayakulik, Frazer, and Upper Station early run sockeye stocks. The second fishing period was scheduled for approximately June 14 for the Northwest Kodiak District. While for the Alitak District a second opening could occur as early as June 12 (depending on the first period harvest and current escapements). Extensions are possible off of these second openings if sockeye escapements are within or above desired levels. Additionally, it was noted that by June 12 more areas generally open, if local minor sockeye stock escapements warrant it. After June 15 additional fishing time is based solely on the strength of the sockeye returns, as determined by escapements and fishery performance. The initial fishing period targeting pink salmon was listed as July 6, and projected weekly fishing periods for the months of July and August were given, based on the predicted pink and chum salmon return strength (Table 16).

General Harvest Information

The 1993 Kodiak commercial salmon season began on June 9 with a 33 hour fishing period in the Alitak Bay and Northwest Kodiak District. The last reported landing was on September 24. In 1993, 43 EOs were released inseason, describing hundreds of individual management actions affecting the fisheries within KMA sections (Figure 16, Appendix F.1).

Throughout the 1993 season, a total of 19 different buyers and/or processors, representing 15 companies were involved in the fishery (Table 17). Only 509 of 613 permit holders actually participated in 1993, making a record 21,560 deliveries. A total of 324 purse seine, 9 beach seine, and 176 set gillnet permit holders fished (Table 8 and 18). A record 39,341,000 salmon were harvested, significantly exceeding the previous high of 23,723,000 salmon in 1991 (Table 7). Purse seine fishers took the majority of the salmon, some 90.04 percent; set gillnet fishers caught 9.63 percent of the 1993 salmon harvest; and beach seine fishers took only 0.33 percent of the 1993 salmon harvest (Table 18).

In 1993 approximately 42,200 chinook salmon (average weight 11.92 lbs) were harvested incidentally during directed sockeye and pink salmon fisheries (Table 19), which surpassed the preseason harvest expectation of 21,000 fish (Table 20) and the previous high harvest from 1992 of 24,300 chinook (Table 7).

The 1993 harvest included 4,377,700 sockeye salmon (average weight 5.13 lbs, Table 19 and 21), the fourth largest harvest on record, with only the 1901, 1990, and 1991 harvests being larger (Table 7). The actual harvest was double the preseason forecast of 2,208,000 sockeye salmon. Early run sockeye returns to the Karluk, Ayakulik, and Frazer systems were much stronger than expected (Table 20).

The 1993 pink salmon harvest of 34,019,400 fish (average weight 3.13 lbs, Table 19) established a new record harvest, almost doubling the previous record of 17,290,600 pink salmon in 1980 (Table 7). Thirty seven percent of the harvest (about 12,000,000 pink salmon) was taken in fisheries targeting pink salmon returning to the Kitoi Bay Hatchery. The 1993 pink salmon harvest was almost 60% greater than the preseason point estimate of 21,575,000 (Table 20).

The 1993 chum salmon harvest of 588,300 fish (average weight 5.99 lbs, Table 19), was only approximately half of the preseason harvest expectation of 1,200,500 fish (Table 20). This was the lowest chum salmon harvest since 1985 and well below the recent 10 year average harvest of 828,300 chum salmon (Table 7).

A total of 313,400 coho salmon (average weight 6.72 lbs, Table 19) were harvested this season, ranking as the third largest harvest on record; only 1991 and 1982 harvest were greater (Table 7). This harvest level was comparable to the preseason harvest expectations of 290,000 coho salmon (Table 20).

As mentioned previously there are several regulatory management plans and harvest strategies which influence the management of the KMA salmon fisheries. Each of these management plans and the 1993 KMA salmon fisheries which occurred in accordance with them are described in detail in the following Appendices:

- Appendix G - The Cape Igvak Salmon Management Plan (5AAC 18.360)
- Appendix H - The Alitak Bay District Salmon Management Plan (5AAC 18.361)
- Appendix I - The Westside Kodiak Management Plan (5AAC 18.362)
- Appendix J - The North Shelikof Strait Sockeye Salmon Management Plan (5AAC 18.363)
- Appendix K - The General Pink Salmon Fishery and the Eastside Afognak Management Plan (5AAC 18.365)
- Appendix L - The Crescent Lake Coho Salmon Management Plan (5AAC 18.364)
- Appendix M - The Spiridon Lake Sockeye Salmon Management Plan (5AAC 18.366)
- Appendix N - The Minor Systems Sockeye Salmon Fisheries.

Exvessel Value

The exvessel value of the Kodiak commercial salmon represents the average price paid to permit holders and generally does not include tender fees. Since the early 1970's the overall exvessel value of the KMA commercial salmon fishery (all permit holders combined) has ranged from a low of \$2,094,000 in 1973 to a high of \$103,817,000 in 1988 (Table 22). The average exvessel value for the last ten years, 1983-1993, is \$40,210,000 (Figure 17).

Although record numbers of salmon were harvested in 1993, low salmon prices depressed the value of the fishery (Table 19). The estimated exvessel value of the 1993 salmon harvest is \$38,546,000 (Table 18), almost \$2,000,000 less than 1992 and well below the record 1988 season (Table 22). Purse seine harvest accounted for 80% of the total exvessel value, averaging \$94,900 for each permit fished. Beach seine harvest accounted for less than 1% of the value, averaging \$8,200 per permit fished. Set gillnet harvest accounted for 20% of the total value, averaging \$43,900 per permit (Table 18).

Prior to the mid 1980's, pink salmon were considered the "bread and butter" fish since they consistently accounted for most of the annual value. In recent years, extensive efforts at rebuilding Kodiak sockeye production have begun to pay off. Sockeye salmon have now become the "money fish" mainly due to increased production from Kodiak's sockeye systems combined with relatively low prices recently paid for pink salmon (Table 19). The harvest by species, was worth \$385,200 (1.0%) for chinook salmon, \$19,444,200 (50.4%) for sockeye salmon, \$16,844,900 (43.7%) for pink salmon, \$931,400 (2.4%) for chum salmon, and \$940,300 (2.4%) for coho salmon (Table 18).

Escapement

In 1993, fish counting weirs were operated on the major systems of Karluk Lake (at Karluk Lagoon), Red Lake (at the Ayakulik River outlet), Frazer Lake (at the Dog Salmon River outlet), and Olga Lakes (at the outlet of Olga Creek at Upper Station), and also on the minor systems of Buskin Lake, Saltery Lake, Laura Lake (at Pauls Bay), Portage Lake (at Perenosa Bay), Malina Lake, and Akalura Lake (Brodie 1993; Table 23, Figure 3). In 1993, 10 observers flew 46 aerial surveys of KMA streams, and 5 observers walked 21 stream surveys. A total of 493 escapement observations were made (Appendix O.1 - O.3.).

Chinook salmon escapement goals into the Ayakulik and Karluk Rivers were achieved. The biological escapement goal range into the Ayakulik River is 6,500 to 10,000 fish. Escapement counts into the Ayakulik River were 7,820 chinook salmon. The biological escapement goal range into the Karluk River is 4,500 to 8,000 fish. Escapement counts into the Karluk River were 13,940 chinook salmon. An additional 340 chinook salmon were counted as escapement through the Dog Salmon weir. It is also of interest to note that small numbers of chinook salmon were counted in the minor systems of Malina, Paul's Bay, Litnik, Buskin, and Saltery (Tables 23 and 24). This is unusual, as there are no resident chinook populations in these systems; where these fish strayed from is unknown.

Sockeye salmon escapements for major and selected minor systems were monitored through the use of fish counting weirs. A total of 1,579,456 sockeye salmon were counted through KMA weirs (Table 23). An additional 125,984 sockeye salmon were estimated by aerial survey as escapement into other systems such as Kafliia Lake, Uganik Lake, Little River Lake, and Swikshak Lagoon, bringing the 1993 total indexed sockeye salmon escapement to 1,705,440 fish (Table 24). The biological escapement goal range for all systems is 1,400,000 to 2,100,000 sockeye salmon. For the major sockeye systems: the Karluk River early run escapement was 259,256 sockeye, slightly exceeding the upper goal of 250,000, and the late run escapement was 398,199 sockeye, slightly below the lower goal of 400,000 (Figure 18); the Ayakulik River escapement of 286,170 sockeye was near the upper goal of 300,000 (Figure 19); in the Frazer system (Dog Salmon River) the sockeye escapement was 178,391, near the upper goal of 200,000 sockeye salmon (Figure 19); the Upper Station early run escapement of 30,490 sockeye salmon was below the lower goal of 50,000, and the late run escapement of 191,891 was near the upper goal of 200,000 (Figure 20). For the minor systems: Saltery Creek and Afognak River both had strong returns, and the escapements into both were well above the upper goals (Figure 21); sockeye escapement into the Malina system was within the lower and upper goals (Figure 22); in the Buskin River escapement fell just short of the lower goal (Figure 22); Akalura and Pauls Bay systems both had poor escapements, well below the established goals (Figure 23). Most of the unweired systems had fair sockeye escapements, though aerial estimates of Little River and Uganik River both were below the desired escapement levels. These low estimates, however, could be a function of poor survey conditions (Appendix O.3).

Pink salmon escapements, overall, were excellent. Although poor weather conditions in late August limited aerial surveys for peak escapement counts, the overall indexed escapement for pink salmon was 4,292,581 fish (Table 24). The biological escapement goal range for odd year pink salmon returns is 1,000,000 to 3,000,000 fish. Escapements in all Districts were above the upper goals, except for in the Mainland District where pink escapements were only mid point between the established lower and upper goals (Table 24). It is strongly suspected that this is more a function of poor survey conditions in late August (Appendix O.3.)

The 1993 indexed chum salmon escapement of 234,381 fish was about one half of the low end of the indexed escapement goal range of 500,000 to 1,500,000 fish (Table 24). Again, poor weather conditions in late August limited aerial surveys for peak escapement counts (Appendix O.3.).

Overall, coho salmon escapements were very good, with an indexed escapement total of 159,996 fish (Table 24). The biological indexed escapement goal is 90,000 to 150,000 fish. Escapements

were good in all Districts with the exception of the Southwest Kodiak District, where documented coho escapement to the Karluk and Ayakulik Rivers were both low (Table 23, 24, and Appendix O.3.).

OTHER KMA SALMON HARVESTS

Subsistence Salmon Fishery

Subsistence use of Kodiak salmon is the priority use of the salmon resources of the KMA, and Alaska. Subsistence salmon permits are issued annually to obtain harvest data. Only residents of the state of Alaska are eligible to take salmon for subsistence purposes. Since 1989 KMA ADF&G staff has mailed out permits, regulations, and a map showing closed water areas to eligible residents (Appendix Q.1.-Q.4.). Additional permits are issued to Alaska residents at the Kodiak ADF&G office. Subsistence fishermen are requested to return their permits to ADF&G after the salmon season, listing areas fished by date and salmon harvest by species.

With few restrictions, the entire KMA is open to subsistence salmon fishing. Reported harvests have averaged 25,500 fish annually for the past 10 years (Table 5) with sockeye salmon accounting for 62% of the harvest, followed by coho salmon at 27%. The most utilized subsistence fishery areas include the north end of Kodiak Island and the southeast side of Afognak Island (Appendix Q.5.).

Salmon Sport Fishery

Since the early 1980's, commercial sport fishing activities have been increasing, particularly in remote areas of the KMA (Schwarz, 1994). Commercial sport fishing activity includes lodge operations, charter vessels, guiding, and directed air charter flights. Most charter boat operations are based out of the city of Kodiak. Remote lodges are currently being operated at Karluk Lagoon, Ayakulik River mouth, Olga Bay, Larsen Bay, Old Harbor, Saltery Lake, Port Lions, Port Bailey, Raspberry Straits, Seal Bay, Port Williams, Zachar Bay, Uyak Bay, Ugak Bay, and Uganik Bay. A temporary tent camp is set up annually at the Kashvik River and floating cabins are located in Paramanoff and Perenosa Bays. "Fly in" sport fishing areas include virtually all KMA chinook and sockeye salmon systems, and most major coho salmon systems.

Sport fishing activities are regulated by ADF&G's Sport Fish Division. The KMA sport fishery salmon harvest is estimated by an annual Sport Fish Division statewide mailout survey. Sport fish salmon harvest varies each year, however 5 year period averages over the last 15 years (1978-82, 1983-87, and 1988-92) indicate a trend of increased harvest (Table 6). The harvest averaged about 37,850 fish over the 1988-92 period, a 22% increase from the 1978-82 5 year period. By species, the largest increases in sport fish harvest over time have been sustained by sockeye (174%), chinook (151%) and coho salmon (96%). Pink salmon sport fish harvest has decreased (-26%).

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Table 1. Estimated number of salmon production systems per district, with species distribution, in the Kodiak Management Area, 1993.

Management District	Number of Streams ^a	Number of Streams with Each Species ^b				
		Chinook	Sockeye	Coho	Pink	Chum
Afognak	102	0	13	48	102	5
Northwest Kodiak	63	0	4	22	63	23
Southwest Kodiak	11	2	2	10	11	6
Alitak	30	1	5	15	30	14
Eastside Kodiak	116	1	8	32	116	47
Northeast Kodiak	26	0	1	20	26	9
Mainland	92	0	6	27	92	46
TOTAL	440	4	39	174	440	150

^a The State of Alaska's Habitat Division identifies over 800 streams in the Kodiak Management Area which have documented use by anadromous fish (State of Alaska 1993). Many of these streams are very small and may only be used by pink salmon in years with very large returns. The streams identified in this table are depicted on the 1993 Kodiak Area salmon statistical map, and have documentable use each year.

^b These estimates are based on current knowledge and, in fact, are expected to change as more system specific data is collected.

Table 2. Biological escapement goals for salmon, by species, by District, in the Kodiak Management Area, 1993.

DISTRICT	SOCKEYE ESCAPEMENT	PINK ESCAPEMENT		CHUM ESCAPEMENT	COHO ESCAPEMENT	CHINOOK ESCAPEMENT
	GOAL	GOAL		GOAL	GOAL	GOAL
	Minimum Maximum	Minimum/Maximum		Minimum Maximum	Minimum Maximum	Minimum Maximum
		Odd Year	Even Year			
AFOGNAK	83,000	83,000	148,000		13,500	
	154,000	249,000	444,000		23,600	
NORTHWEST	56,000	220,000	315,000	72,000	9,000	
	90,000	660,000	915,000	216,000	14,000	
SOUTHWEST	760,500	30,000	1,250,000	50,000	33,000	11,000
	1,201,000	90,000	2,550,000	150,000	52,000	19,000
ALITAK	386,000	212,000	162,000	38,000	10,500	100
	550,000	636,000	486,000	114,000	20,000	300
EASTSIDE	29,500	140,000	150,000	88,000	10,000	
	64,000	420,000	450,000	264,000	15,000	
NORTHEAST	10,000	110,000	120,000	20,000	10,475	
	15,000	330,000	360,000	60,000	16,555	
MAINLAND	33,500	215,000	256,000	242,000	4,000	
	66,000	645,000	768,000	726,000	9,000	
TOTAL	1,358,500	1,010,000	2,401,000	510,000	90,475	11,100
	2,140,000	3,030,000	6,003,000	1,530,000	150,155	19,300

Table 3. Potential vs. actual salmon production (wild stock) in the Kodiak Management Area, 1993.

SPECIES	PRODUCTION POTENTIAL			HARVEST		
	LONG TERM AVERAGE			POTENTIAL	ACTUAL	
	Targeted Escapement Goal ^a	Return Per Spawner ^b	Potential Total Return	Long Term Average	45 Year Average (1948-1993) ^c	10 Year Average (1982-1993) ^c
CHINOOK	15,000	2.5	37,500	22,500	4,000	15,000
SOCKEYE	2,100,000	2.5	5,250,000	3,150,000	1,184,000	3,220,000
COHO	150,000	2.5	375,000	225,000	100,000	255,000
Odd Year PINK	3,000,000	3.5	10,500,000	7,500,000	7,182,000	13,535,000
Even Year	4,500,000	3.5	15,750,000	11,250,000	8,654,000	9,271,000
CHUM	1,020,000	2.8	2,856,000	1,836,000	785,000	828,000
Odd Year TOTAL	6,285,000	-	19,018,500	13,454,000	9,255,000	17,853,000
EvenYear	7,785,000	-	24,268,500	16,483,500	10,727,000	13,589,000

^a The expected indexed escapement within the biological escapement goal range. KMA fisheries are normally managed to achieve this level of escapement.

^b Return per spawner will vary each year. These values are averages around which natural survival and return will fluctuate somewhat (Barrett, Personal Communication, October 1993).

^c 1989 harvest data not included in estimates.

Table 4. Historical indexed salmon escapements by species in the Kodiak Management Area, 1962-1993.

Year	Chinook	Sockeye	Coho	Pink	Chum
1962		922,500		4,600,000	297,900
1963		502,227		1,026,075	75,520
1964		600,346		3,360,000	261,429
1965		561,980		772,874	67,156
1966		652,578		2,100,000	143,700
1967		720,683		698,710	136,079
1968	703	645,612		2,800,000	121,000
1969	7,752	592,020		1,581,335	77,285
1970	3,900	573,603		3,392,577	123,150
1971	4,524	456,197		1,070,173	249,327
1972	3,049	605,491		1,053,391	335,115
1973	4,762	543,111		604,592	258,044
1974	1,622	995,925		2,041,099	86,383
1975	3,059	704,801		1,100,555	156,761
1976	8,411	1,075,226		3,105,320	312,914
1977	13,824	1,269,374	59,095	2,212,488	742,384
1978	14,677	1,000,353	37,479	5,006,273	482,956
1979	14,441	1,410,800	94,000	3,067,647	607,430
1980	5,850	1,831,748	28,000	6,492,822	830,070
1981	15,720	1,391,593	59,000	3,188,869	741,981
1982	10,773	1,603,692	86,000	5,370,049	1,023,923
1983	27,445	1,300,506	104,000	2,089,704	824,954
1984	14,429	1,467,780	123,000	4,512,124	682,936
1985	13,876	2,574,539	191,417	3,168,197	727,883
1986	11,046	2,001,279	170,000	4,068,615	655,817
1987	23,744	1,551,543	153,000	2,978,510	641,579
1988	35,152	1,661,532	96,140	3,236,931	558,531
1989 ^a	26,131	3,022,886	166,622	14,642,587	1,432,609
1990	25,972	2,006,241	151,420	6,024,900	474,620
1991	27,306	2,515,659	259,850	4,317,610	934,336
1992	19,013	1,968,058	289,592	3,515,624	530,128
1993	22,113	1,705,440	159,996	4,291,581	234,381
Total	359,294	40,435,323	2,228,611	107,491,232	14,828,281
Average all years	13,327	1,206,853	17,776	2,995,118	432,118
Recent Yr. Average (1987-1993)	25,911	1,971,386	191,400	4,277,329	546,399
Odd Year Average ^b (1983-1993)				3,369,120	
Even Year Average (1982-1992)				4,454,707	

^a Limited commercial fisheries were conducted due to oil contamination from the Exxon Valdez oilspill.

^b 1989 not included in averages.

Table 5. Subsistence salmon fishery harvest summary by species by year for the Kodiak Management Area, 1962-1993.

Year	Permits Issued	Permits Returned	Percent Returned	Chinook	Sockeye	Coho	Pink	Chum	Total
1962	74	13	18	0	0	433	397	20	850
1963	74	15	20	0	297	576	836	195	1,904
1964	43	9	21	6	332	184	88	71	681
1965	67	7	10	2	19	318	244	12	595
1966	48	13	27	0	295	331	334	393	1,353
1967	84	29	35	2	1,306	571	894	344	3,117
1968	132	28	21	0	658	433	529	45	1,665
1969	242	30	12	1	481	338	620	30	1,470
1970	213	49	23	1	959	939	797	265	2,961
1971	267	131	49	5	3,442	1,720	1,276	472	6,915
1972	329	176	54	11	3,633	1,531	2,516	2,729	10,420
1973	400	149	37	7	4,453	2,289	1,393	1,166	9,308
1974	367	90	25	1	1,909	846	1,094	128	3,978
1975	508	90	18	1	1,141	922	947	221	3,232
1976	536	243	45	4	4,338	962	2,275	370	7,949
1977	739	451	61	54	8,119	2,508	2,849	317	13,847
1978	860	539	63	50	7,239	3,699	2,747	572	14,307
1979	1,085	697	64	111	10,376	3,840	3,300	333	17,960
1980	1,239	756	61	67	13,746	4,407	2,755	566	21,541
1981	1,166	733	63	44	12,756	3,729	2,278	470	19,277
1982	1,276	993	78	110	16,615	7,192	3,558	667	28,142
1983	1,307	1,082	83	111	15,526	6,283	2,536	800	25,256
1984	1,240	1,061	86	265	17,620	5,808	1,877	720	26,290
1985	1,476	1,196	81	172	16,231	8,873	2,756	855	28,887
1986	1,244	1,049	84	91	14,451	7,087	2,371	605	24,605
1987	1,124	904	80	101	13,277	6,737	2,409	1,316	23,840
1988	1,098	706	64	108	10,142	4,074	1,274	366	15,964
1989	2,800 ^a	715	N/A	41	11,998	3,707	1,492	367	17,605
1990	2,900 ^a	1,181	N/A	131	17,972	8,646	1,605	655	29,009
1991	1,406	1,239	88	175	21,590	8,201	1,743	714	32,423
1992	1,561	1,176	75	317	20,218	8,544	1,642	643	31,364
1993 ^b	1,496	683	46	210	15,717	5,473	2,378	710	24,488
TOTAL 1962-1992				1,989	251,438	106,054	51,474	16,442	427,397
AVERAGE 1962-1992				64	8,111	3,421	1,660	530	13,787
10 YEAR AVERAGE 1983 - 1992				151	15,932	6,829	1,975	706	25,593

^a Permits were mailed to all eligible applicants listed totaling approximately 2,800. In 1990 approximately 1/5 of the 2,900 permits issued were "returned to sender" as "undeliverable". These names were removed from the permittee list.

^b Only partial data available. Data from permits returned through 2/8/94 only. Many harvest reports are returned in the spring when subsistence users come into the ADF&G office in Kodiak to renew their subsistence permits.

Table 6. Sport fish salmon harvest in the Kodiak regulatory area of the Kodiak Management Area, 1978-1992.^a

Year	Pink	Coho	Sockeye	Chinook	Chum	Total
1978	17,739	4,927	1,776	350	1,287	26,079
1979	15,871	11,522	2,436	752	500	31,081
1980	18,969	12,692	2,178	327	525	34,691
1981	12,259	10,584	1,620	789	637	25,889
1982	18,850	13,329	3,055	1,120	1,324	37,678
1983	8,936	7,823	3,150	729	816	21,454
1984	12,779	14,612	5,385	921	1,321	35,018
1985	13,423	13,625	7,536	762	865	36,211
1986	14,509	20,873	5,259	520	336	41,497
1987	11,662	16,912	4,165	379	560	33,678
1988	19,044	18,809	6,222	1,564	1,546	47,185
1989	17,794	19,802	6,789	1,087	631	46,103
1990	7,464	13,728	6,056	996	191	28,435
1991	12,106	17,691	5,049	2,508	1,517	38,871
1992	5,904	13,668	6,240	2,217	625	28,654
1978-82 Average	16,738	8,537	2,213	668	855	31,084
1983-87 Average	12,261	14,769	5,099	662	780	33,572
1988-92 Average	12,462	16,740	6,071	1,674	902	37,850

^a Data from Schwarz (1994). The Kodiak regulatory area consists of only the Kodiak Island archipelago portion of the commercial fisheries Kodiak Management Area.

Table 7. Historical salmon catch by species in the Kodiak Management Area, 1882-1993.

Year	Salmon Harvest (in thousands) ^a					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1882		58.8				58.8
1883		188.7				188.7
1884		282.2				282.2
1885		468.6				468.6
1886		646.1				646.1
1887		1,004.5				1,004.5
1888		2,781.1				2,781.1
1889		3,754.7				3,754.7
1890		3,592.7				3,592.7
1891		3,846.4				3,846.4
1892		3,126.5				3,126.5
1893		3,244.6				3,244.6
1894		3,830.3				3,830.3
1895		2,247.0	8.3			2,255.3
1896		3,328.8				3,328.8
1897		2,785.5	1.5			2,787.0
1898		2,033.1	19.2			2,052.3
1899	1.1	1,934.8	32.5			1,968.4
1900	4.8	3,450.5	32.2			3,487.6
1901	3.8	4,826.2		2.0		4,832.0
1902	2.9	3,868.1	35.0			3,906.0
1903	1.2	1,826.2	119.5	10.0		1,956.9
1904	3.2	2,875.1	103.1	5.2		2,986.6
1905	2.5	2,142.4	86.9			2,231.8
1906	3.6	3,980.5	23.7			4,007.8
1907	4.0	4,232.5	38.1			4,274.5
1908	3.0	2,487.8	73.8	286.4		2,851.0
1909	3.9	1,915.2	51.5	153.6		2,124.2
1910	1.6	1,954.7	44.3	215.4		2,216.0
1911	0.7	2,685.9	21.9	229.6	6.5	2,944.6
1912	0.7	2,246.5	17.5	547.2	24.6	2,836.4
1913	1.1	1,663.2	27.6	590.0	3.8	2,285.7
1914	1.3	1,255.4	32.1	1,726.4	13.1	3,028.3
1915	0.9	1,664.4	51.8	252.1	20.3	1,989.6
1916	1.0	3,373.1	49.7	3,181.9	29.0	6,634.6
1917	1.5	3,645.9	30.5	225.3	16.0	3,919.2
1918	2.0	1,894.5	78.2	2,467.3	81.7	4,523.7
1919	1.8	1,619.1	104.2	282.7	60.1	2,068.0
1920	1.6	1,957.6	89.0	1,977.4	55.2	4,080.8
1921	0.7	2,857.9	45.8	67.7	24.8	2,996.8
1922	0.7	1,097.4	119.7	2,766.3	224.0	4,208.0
1923	1.9	1,090.1	77.6	928.5	38.7	2,136.7
1924	1.0	1,407.5	120.7	5,435.1	117.9	7,082.2
1925	1.9	1,693.1	93.0	2,673.7	212.5	4,674.1
1926	0.6	3,015.4	174.5	4,606.7	324.7	8,121.8
1927	4.4	1,155.2	151.5	5,297.3	418.0	7,026.4
1928	2.5	1,592.0	290.6	1,535.3	726.5	4,147.0
1929	3.2	712.1	144.2	6,108.4	1,057.7	8,025.6
1930	5.0	466.4	228.8	1,651.4	419.0	2,770.6
1931	1.5	1,183.1	170.1	6,839.9	183.7	8,378.3
1932	1.9	1,058.4	52.2	4,719.9	237.0	6,069.5
1933	1.1	1,428.4	91.4	6,573.7	536.9	8,631.5
1934	1.3	1,829.0	89.6	7,641.9	661.3	10,223.1
1935	1.4	1,613.5	76.8	10,780.6	381.8	12,854.1
1936	2.5	2,657.2	183.9	5,647.7	328.2	8,819.6
1937	1.3	1,881.3	164.9	16,787.2	346.2	19,180.9
1938	1.2	1,965.9	155.0	8,398.0	640.1	11,160.2
1939	2.3	1,786.4	112.2	11,741.2	641.7	14,283.8
1940	1.2	1,318.2	148.0	9,997.9	673.3	12,138.6
1941	2.6	1,730.2	199.5	7,601.5	444.5	9,978.3
1942	1.3	1,281.5	106.9	6,092.5	564.9	8,047.2
1943	1.1	1,990.6	59.7	12,479.6	454.2	14,985.2
1944	0.7	1,817.9	51.7	4,955.4	506.7	7,332.3
1945	2.0	2,041.1	60.1	9,044.5	559.3	11,707.1

-Continued-

Table 7.

(page 2 of 3)

Year	Salmon Harvest (in thousands) ^a					
	Chinook	Sockeye	Coho	Pink	Chum	Total
1946	0.1	838.9	56.4	9,545.9	298.5	10,739.8
1947	0.1	993.4	76.2	8,856.7	294.5	10,220.9
1948	1.4	1,260.5	32.4	5,968.5	330.8	7,593.5
1949	0.9	892.3	53.7	4,927.8	699.5	6,574.3
1950	2.1	920.9	40.7	5,304.7	685.1	6,953.5
1951	2.4	467.9	48.8	2,100.4	483.1	3,102.5
1952	1.1	603.7	51.6	4,576.7	1,243.2	6,476.3
1953	3.0	317.2	41.7	5,174.6	547.6	6,084.0
1954	0.9	325.2	66.4	8,439.2	1,250.8	10,082.6
1955	2.4	164.5	34.6	10,794.2	482.4	11,478.1
1956	1.1	271.2	52.8	3,318.8	705.0	4,349.1
1957	1.0	234.3	35.0	4,716.5	1,208.5	6,195.2
1958	1.9	288.0	20.6	4,038.9	930.7	5,280.1
1959	1.8	330.1	14.5	1,967.1	733.8	3,047.3
1960	1.2	362.5	54.3	6,737.8	1,300.4	8,456.3
1961	0.9	408.0	28.6	3,926.0	518.9	4,882.4
1962	1.1	784.7	54.6	14,113.9	794.7	15,748.9
1963	0.3	407.0	57.0	5,480.2	305.1	6,249.6
1964	1.3	498.5	35.5	12,044.3	1,134.2	13,713.8
1965	0.8	346.2	26.7	2,886.8	431.3	3,691.9
1966	0.6	631.6	67.7	10,755.6	762.8	12,218.3
1967	1.8	308.8	10.4	187.8	226.7	735.4
1968	1.9	760.4	56.6	8,768.1	750.4	10,337.5
1969	2.5	591.5	48.8	12,500.8	534.9	13,678.5
1970	1.1	917.0	66.4	12,036.6	919.1	13,940.3
1971	0.9	478.5	22.8	4,333.0	1,541.4	6,376.7
1972	1.3	222.8	16.6	2,485.8	1,163.8	3,890.3
1973	0.8	167.3	3.6	518.7	317.9	1,008.3
1974	0.5	418.8	13.6	2,646.1	249.3	3,328.3
1975	0.1	136.4	23.7	2,942.8	84.4	3,187.4
1976	0.8	641.5	23.7	11,078.0	740.5	12,484.5
1977	0.6	623.5	27.9	6,252.4	1,072.3	7,976.7
1978	3.2	1,071.8	48.8	15,004.1	814.3	16,942.2
1979	1.9	631.7	140.6	11,287.6	358.4	12,420.3
1980	0.5	651.4	139.2	17,290.6	1,075.6	19,157.2
1981	1.4	1,289.0	121.5	10,336.8	1,345.3	13,094.1
1982	1.2	1,204.8	343.5	8,076.2	1,266.2	10,892.0
1983	3.8	1,232.0	157.6	4,603.4	1,085.2	7,082.0
1984	4.7	1,950.4	229.5	10,844.3	649.1	13,678.0
1985	5.0	1,843.2	284.2	7,334.8	430.8	9,897.9
1986	4.4	3,188.3	168.8	11,807.7	1,134.6	16,303.7
1987	4.6	1,792.8	192.5	5,076.0	682.0	7,748.0
1988	22.4	2,698.6	303.3	14,409.3	1,426.4	18,860.0
1989	4.9	2,628.6	141.4	22,648.5	835.7	26,259.1
1990	18.8	5,248.3	293.7	5,983.8	577.7	12,122.4
1991	22.2	5,704.0	324.9	16,642.8	1,029.1	23,723.0
1992	24.3	4,167.9	280.1	3,310.6	679.6	8,462.5
1993	42.2	4,377.7	313.4	34,019.4	588.3	39,341.0
Averages All Years						
	3.1	1,711.4	93.7	6,411.5	575.3	8,795.1
Averages 1948-1993						
	4.4	1,183.9	100.3	8,254.3	785.4	10,328.4
Even Year (EY) 1948-1992						
Odd Year (OY) 1949-1993 ^b						
				8,653.9		10,728.0
				7,182.3		9,256.3
Averages 1983-1993 ^b						
	15.2	3,220.3	254.8	11,403.2	828.3	15,721.8
Even Year (EY) 1984-1992						
Odd Year (OY) 1983-1993 ^b						
				9,271.2		13,589.8
				13,535.3		17,853.9

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- a For the period 1882-1947, the harvest data was derived from "casepack" information supplies by commercial buyers and processors. For the period 1948-present, the harvest data was derived from "fish ticket" information summarized by ADF&G.
- b Averages do not include harvest data for 1989. The 1989 harvest data shown is unique from all other years. The total harvest by species in this table is the summation of the actual harvest which did occur and the projected harvest which would have occurred if there had not been restrictions on the 1989 fishery. In 1989 there was only limited commercial salmon fishing allowed because of the presence of oil contaminated waters in the Kodiak Management Area due to the M/V Exxon Valdez oil spill.

Table 8. Summary of limited entry permit activity in the commercial salmon fishery, by gear type, in the Kodiak Management Area, 1975 - 1993.

	Purse Seine ^a		Beach Seine ^a		Set Gillnet ^a		Total ^a		Percent
	Fishable	Fished	Fishable	Fished	Fishable	Fished	Fishable	Fished	
1975	468	280	26	8	229	116	723	404	56
1976	394	325	23	17	187	140	604	482	80
1977	378	336	32	24	186	147	596	507	85
1978	389	372	34	29	188	160	611	561	92
1979	387	362	34	28	186	164	607	554	91
1980	387	370	35	33	187	168	609	571	94
1981	387	325	35	30	187	169	609	524	86
1982	386	345	35	30	187	170	608	545	90
1983	383	342	35	27	188	174	606	543	90
1984	384	296	35	25	188	168	607	489	81
1985	384	270	34	21	188	169	606	460	76
1986	385	287	34	14	187	174	606	475	78
1987	386	297	33	18	188	173	607	488	80
1988	387	323	33	21	188	179	608	523	86
1989 ^b	388	4	33	1	189	87	610	92	15
1990	388	354	33	21	189	184	610	559	92
1991	388	348	33	17	189	185	610	550	90
1992	391	336	33	12	190	178	614	526	86
1993	387	324	36	9	190	176	613	509	83
18 Year Average (1975-93) ^c									
	391	327	33	21	190	166	614	515	84
5 Year Average (1988-93) ^c									
	388	337	34	16	189	180	611	533	87

^a Data from Commercial Fisheries Entry Commission records and ADF&G Fish Ticket summaries.

^b 1989 effort levels were very low due to extensive fishery closures because of the presence of oil from the Exxon Valdez spill.

^c 1989 data not included in averages.

Table 9. Resident vs. nonresident commercial salmon fishing limited entry permit ownership in the Kodiak Management Area, 1986-1993.

YEAR/STATUS	PURSE SEINE		BEACH SEINE		SET GILLNET		TOTAL	
	Number	%	Number	%	Number	%	Number	%
1993^a								
RESIDENT	289	75	32	89	153	80	474	77
NONRESIDENT	94	24	4	11	35	19	133	22
INTERIM	4	1	0	0	2	1	6	1
TOTAL	387		36		190		613	
1992^a								
RESIDENT	284	73	30	91	140	74	454	74
NONRESIDENT	103	26	3	9	49	26	155	25
INTERIM	4	1	0	0	1	<1	6	1
TOTAL	391		33		190		614	
1991^a								
RESIDENT	281	73	30	91	138	73	449	74
NONRESIDENT	102	26	3	9	50	27	155	25
INTERIM	5	1	0	0	1	<1	6	1
TOTAL	388		33		189		610	
1990^a								
RESIDENT	283	73	29	88	142	75	454	75
NONRESIDENT	99	25	4	12	46	24	149	24
INTERIM	6	2	0	0	1	1	7	1
TOTAL	388		33		189		610	
1989^a								
RESIDENT	285	73	29	88	145	77	459	75
NONRESIDENT	97	25	4	12	43	23	144	24
INTERIM	6	2	0	0	1	<1	7	1
TOTAL	388		33		189		610	
1988^a								
RESIDENT	286	74	31	86	148	79	465	76
NONRESIDENT	96	24	2	6	39	21	137	23
INTERIM	5	2	0	8	1	<1	6	1
TOTAL	387		33		188		610	
1987^a								
RESIDENT	295	73	31	83	151	80	477	79
NONRESIDENT	86	22	2	6	36	19	124	20
INTERIM	5	5	0	11	1	1	6	1
TOTAL	386		33		188		607	
1986^a								
RESIDENT	294	74	30	80	148	79	472	78
NONRESIDENT	86	21	4	9	39	21	129	21
INTERIM	5	5	0	11	0	<1	5	1
TOTAL	385		34		187		606	

^a Data from Commercial Fisheries Entry Commission records. Numbers reflect only permit ownership and not actual participation in Kodiak Area commercial salmon fisheries.

Table 10. Commercial salmon fisheries limited entry permits issued, by residence of permit holder, for the Kodiak Management Area, 1993.

Fishery	Residence ^a	Total # Permits
PURSE	Anchor Point, AK	3
SEINE	Anchorage, AK	15
	Big Lake, AK	2
	Chignik, AK	1
	Chignik Lagoon, AK	1
	Chugiak, AK	1
	Clam Gulch, AK	1
	Cordova, AK	1
	Eagle River, AK	1
	Girdwood, AK	2
	Homer, AK	16
	Juneau, AK	2
	Kasilof, AK	2
	Kenai, AK	2
	Kodiak, AK	169
	Larsen Bay, AK	6
	Ninilchik, AK	5
	Old Harbor, AK	27
	Ouzinkie, AK	10
	Petersburg, AK	2
	Port Lions, AK	9
	Sand Point, AK	1
	Seldovia, AK	3
	Seward, AK	2
	Soldotna, AK	3
	Wasilla, AK	2
	ARKANSAS	1
	ARIZONA	1
	CALIFORNIA	3
	MAINE	1
	MICHIGAN	1
	OREGON	10
	WASHINGTON	81
Total Number of Permits		387
Total Number of Alaskan Resident Permits		289
% of Total Permits Held by Alaskan Residents		75%
Total Number of Kodiak Resident Permits		221
% of Total Permits Held by Kodiak Residents		57%
BEACH	Akhiok, AK	1
SEINE	Anchor Point, AK	1
	Anchorage, AK	1
	Chugiak, AK	1
	Homer, AK	2
	Karluk, AK	1
	Kasilof, AK	1
	Kodiak, AK	18

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Fishery	Residence ^a	Total # Permits
	Larsen Bay, AK	3
	Old Harbor, AK	1
	Seward, AK	1
	Sterling, AK	1
	OREGON	1
	WASHINGTON	3
Total Number of Permits		36
Total Number of Alaskan Resident Permits		32
% of Total Permits Held by Alaskan Residents		89%
Total Number of Kodiak Resident Permits		24
% of Total Permits Held by Kodiak Residents		67%
SET	Akhiok, AK	2
GILLNET	Anchor Point, AK	1
	Anchorage, AK	11
	Douglas, AK	4
	Fairbanks, AK	1
	Homer, AK	1
	Kodiak, AK	106
	Larsen Bay, AK	10
	Moser Bay, AK	2
	Nikiski, AK	1
	Old Harbor, AK	4
	Ouzinkie, AK	3
	Palmer, AK	4
	Port Bailey, AK	1
	Port Lions, AK	1
	Soldotna, AK	1
	ARIZONA	2
	COLORADO	1
	FLORIDA	3
	IDAHO	1
	INDIANA	3
	MINNESOTA	1
	MISSOURI	1
	NEVADA	1
	OREGON	4
	SOUTH DAKOTA	1
	TEXAS	3
	WASHINGTON	16
Total Number of Permits		190
Total Number of Alaskan Resident Permits		153
% of Total Permits Held by Alaskan Residents		81%
Total Number of Kodiak Resident Permits		129
% of Total Permits Held by Kodiak Residents		68%

^a Data from Commercial Fisheries Entry Commission records.

Table 11. Projected commercial salmon harvest, by species and fishery, for the Kodiak Management Area, 1993.^a

	Chinook	Sockeye	Coho	Pink	Chum	Total
1993 Projected Harvest	21,000	2,208,000	290,000	21,575,000	1,200,500	25,456,500

		1993 HARVEST PROJECTION^b
Early Run Sockeye Salmon Fisheries (6/9-7/15)		
	Cape Igvak	230,000
	Karluk	350,000
	Ayakulik	138,000
	Frazer	232,000
	Upper Station	35,000
	Minor Systems	50,000
	Other	70,000
	Sub-Total	1,105,000
Late Run Sockeye Salmon Fisheries (7/16-9/15)		
	Afognak (Hatchery)	18,000
	Cape Igvak	95,000
	Karluk	325,000
	Ayakulik	92,000
	Frazer	58,000
	Upper Station	410,000
	Minor Systems	75,000
	Other	30,000
	Sub-Total	1,103,000
	TOTAL SOCKEYE	2,208,000
Coho Salmon Fisheries (8/1-10/1)		
	Afognak (Hatchery)	5,000
	Afognak (Natural)	35,000
	Westside	135,000
	Alitak	25,000
	Eastside/Northend Kodiak	50,000
	Mainland	40,000
	Sub-Total	290,000
Pink Salmon Fisheries (7/6-9/5)		
	Afognak (Hatchery)	6,500,000
	Afognak (Natural)	850,000
	Westside Kodiak	4,750,000
	Alitak	2,870,000
	Eastside/Northend Kodiak	5,750,000
	Mainland	855,000
	Sub-Total	21,575,000

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	1993 HARVEST PROJECTION^b
Chum Salmon Fisheries (6/6-9/5)	
Afognak (Hatchery)	500
Afognak (Natural)	60,000
Westside Kodiak	390,000
Alitak	70,000
Eastside/Northend Kodiak	275,000
Mainland	405,000
Sub-Total	1,200,500
GRAND TOTAL	25,456,500^c

^a 1993 harvest projections as of 1/20/93.

^b Numbers of fish.

^c Includes 21,000 chinook - projected harvest.

Table 12. Commercial salmon season opening times and dates by species for the Kodiak Area, 1993.

FISHERY	EARLIEST OPENING TIME/DATE	
	Firm Time/Date	Approximate Time/Date
Early Run Sockeye Salmon Fisheries		
Cape Igvak Section ^a	-	12:01 A.M. June 5-9
N.W. Kodiak District ^b	12:00 Noon June 9	
Inner Ayakulik and Outer Ayakulik Sections ^c	-	Low tide June 7-9
Alitak District ^b	12:00 Noon June 9	
Minor Systems ^d		
Uganik	-	12:00 Noon June 14
Paramanof	-	12:00 Noon June 14
Pauls/Perenosa	-	12:00 Noon June 14
Litnik	-	12:00 Noon June 9-14
Saltery	-	12:00 Noon June 14
Kafliia/Swikshak	-	12:00 Noon June 14
Pink/Chum Salmon Fisheries ^e		
Mainland District	12:00 Noon July 6	-
Afognak District	12:00 Noon July 6	-
N.W. Kodiak District	12:00 Noon July 6	-
S.W. Kodiak District	12:00 Noon July 6	-
Alitak District	12:00 Noon July 6	-
Eastside Kodiak District	12:00 Noon July 6	-
N.E. Kodiak District	12:00 Noon July 6	-
Late Run Sockeye Salmon Fishery		
Cape Igvak Section ^f	-	12:01 A.M. July (?)
All remaining late run sockeye fisheries ^g	-	12:00 Noon July 15
System Specific Coho Salmon Fisheries ^h		
Mainland District	-	12:00 Noon Sept. 1
Afognak District	-	12:00 Noon Aug. 15
N.W. Kodiak District	-	12:00 Noon Sept. 1
S.W. Kodiak District	-	12:00 Noon Sept. 1
Alitak District	-	12:00 Noon Sept. 1
Eastside Kodiak District	-	12:00 Noon Sept. 5
N.E. Kodiak District	-	12:00 Noon Sept. 5

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- a Actual opening date will be determined by sockeye escapement levels into the Chignik River system. Fishing time will be in 24 hour increments.
 - b Actual opening time/date is as shown. This opening is considered a commercial test fishery; fishing time for this initial period will be 33 hours (12:00 noon 6/9 through 9:00 P.M. 6/10).
 - c Actual opening date will be determined by the sockeye escapement level into Ayakulik River and opening time by low tide timing during daylight hours.
 - d Actual opening time will be determined by sockeye escapement levels into minor systems. Fishing time for this period will be 33 hours (12:00 noon through 9:00 P.M.)
 - e Actual opening time/date is as shown. Fishing time for this initial period will be 105 hours (12:00 noon 7/6 through 9:00 P.M. 7/10). See section on Fishing Periods for additional information.
 - f Actual opening date will be determined by sockeye escapement levels into the Chignik River System. Fishing time will be in 24 hour increments.
 - g Actual opening date for system specific fishing time will be determined by sockeye escapement levels into major systems. All fishing periods will begin at 12:00 noon and end at 9:00 P.M. prior to 8/16 and end at 6:00 P.M. from 8/16 to season's end.
 - h Actual opening date for system specific fishing time will be determined by overall coho run strength evaluation and by escapement levels into major systems and minor systems with reliable escapement data.

Table 13. Board of Fisheries approved fishery management plans for the Kodiak Management Area, 1993.

MANAGEMENT PLAN	YEAR INITIATED	MGMT. UNITS AFFECTED	DATES IN EFFECT
Cape Igvak Salmon Management Plan	1978	Cape Igvak Section Wide Bay Section	6/5 - 7/25
Alitak Bay District Salmon Management Plan	1987	Alitak Bay District	6/9 - 10/1
Westside Kodiak Management Plan	1990	N.W. Kodiak District S.W. Kodiak District S.W. Afognak Section	6/9 - 10/1
Crescent Lake Coho Salmon Management Plan	1990	Portion of the Central Section in Vicinity of Port Lions	8/1 - 9/15
North Shelikof Strait Sockeye Salmon Management Plan	1990	S.W. Afognak Section N.W. Afognak Section Shuyak Section Big River Section Hallo Bay Section Inner and Outer Kukak Sect. Dakavak Section	7/6 - 7/25
Eastside Afognak Management Plan ^a	1993	Kitoy Bay Section Izhut Bay Section Duck Bay Section	6/9 - 10/1
Spiridon Bay Sockeye Salmon Management Plan	1993	Special Harvest Area in Spiridon Bay Section	6/9 - 10/1

^a This management plan has basically been in use since 1981, but was titled the Kitoy Bay Hatchery management plan. In 1993, it was adopted into regulation by the Alaska Board of Fisheries.

Table 14. Sockeye salmon brood year escapements contributing to the 1993 sockeye return to the Kodiak Management Area.

Brood Year	1986	1987	1988	1989	1990	1991	1992
Age for 1993 Return	(7)	(6)	(5)	(4)	(3)	(2)	(1)
K May	7	131	751	169	323	17	67
A June	335,458	299,883	252,954	327,094	183,158	196,299	199,293
R July	23,902	64,873	50,904	29,219	21,665	52,196	24,672
L August	244,207	152,199	148,163	160,598	97,737	228,242	145,446
U September	282,823	249,165	126,044	591,566	435,205	657,332	461,936
K October	774	-	-	-	-	-	-
TOTAL	887,171	776,251	578,816	1,108,646	738,088	1,134,086	831,414
A							
Y May	64	1,052	6,298	6	5,150	598	1,800
K June	157,159	118,380	110,032	418,367	135,139	221,760	109,611
U July	120,892	109,623	128,139	250,913	125,164	131,919	188,081
L August	40,020	32,675	46,957	98,815	105,168	20,582	44,692
I September	-	183	348	-	660	-	-
K TOTAL	318,125	261,913	291,774	768,101	371,282	374,859	344,184
F							
R May	-	-	-	-	-	-	-
R June	-	7,358	132,279	241,631	80,145	137,192	55,338
A July	126,260	39,837	110,153	100,989	135,439	53,166	120,400
Z August	269	1,382	5,218	17,753	11,376	-	10,087
E September	-	379	405	-	-	-	-
R TOTAL	126,529	48,956	248,055	360,373	226,960	190,358	185,825
S							
U T May	-	1,328	328	41	-	-	-
P A June	86,581	59,373	50,592	55,161	51,053	35,754	14,867
P T July	24,849	62,240	49,327	50,663	20,101	24,155	11,867
E I August	344,416	65,966	189,203	156,078	167,903	216,027	184,943
R O September	10,539	43,288	17,110	24,345	15,389	16,950	6,466
N TOTAL	466,385	232,195	306,560	286,288	254,446	292,886	218,143
L							
I May	47	3,178	209	-	1,423	1,316	1,292
T June	38,867	14,321	24,287	62,902	65,250	70,092	45,496
N July	8,427	6,477	6,143	19,698	21,319	9,075	27,089
I August	979	1,945	8,367	5,899	2,469	7,828	2,857
K September	13	553	6	326	205	246	526
K TOTAL	48,333	26,474	39,012	88,825	90,666	88,557	77,260

Table 15. Expected harvest from supplemental salmon production, by system and species for the Kodiak Management Area, 1993.

System	Sockeye	Pink	Coho	Chum
Kitoi Bay Hatchery Complex	18,000 ^a	6,500,000	5,700	5,000
Spiridon Lake	4,000	0	0	0
Hidden Lake	0	0	2,000	0
Waterfall Lake	0	0	0	0
Malina Lake	0	0	0	0
Crescent Lake	0	0	3,500	0

^a Harvest is expected to occur during fisheries targeting pink salmon.

Table 16. Projected commercial fishing periods for pink salmon in the KMA, 1993.

Pink Salmon^a

In consideration of the forecasted strength of the 1993 pink return and the expected strong early production associated with odd year returns, **the 1993 pattern of fishing periods for those management units where pink salmon are the targeted management species is expected to vary in fishing time from 4-1/2 days per week up to 7 days per week from July 6 through approximately August 25.**

Listed below are projected fishing period scenarios which can be used for planning purposes by both ADF&G and industry. **Changes in these scenarios should be expected if significant deviations in the actual pink salmon return occurs.** Less fishing time should be expected in management units where chum salmon are the targeted management species.

First Period: 4-1/2 days (105 hours) - 12:00 Noon July 6 through 9:00 P.M. July 10. In recent years this initial fishing period has varied between 2-1/2 to 4-1/2 days in duration. Due to the expected strong early production associated with an odd year return a longer initial fishing period is warranted. This period provides harvest data important for early run strength assessment for Area K's entire pink salmon run as well as for specific chum salmon stocks. No extensions in fishing time based on pink or chum salmon harvests would occur during this period. In consideration of the run out tides, closed waters will be increased in the Inner Uganik Bay Section beginning with this fishing period.

Second Period: 4-1/2 days (105 hours) - 12:00 Noon July 13 through 9:00 P.M. July 17. This second period will help ensure that early run pink salmon stocks and several major chum salmon stocks are adequately harvested per the stated management goals, and that at least minimum escapements are ensured. Assessment of run strength for both species will emphasize harvest data. No extensions in fishing time based on pink or chum salmon harvests would occur during this period.

Third Period: 4-1/2 days (105 hours) - 12:00 Noon July 20 through 9:00 P.M. July 24. This third period will occur following a two day closure, to allow an influx of pink and chum salmon into terminal areas to enhance the build-up of potential escapement fish. This is the first fishing period when the combination of harvest and early escapement/build-up information will provide the initial indications of actual run strength for major pink salmon fisheries. While no extensions in fishing time are expected during this period, the assessment results of this period have commonly resulted in reduced fishing time during the fourth period for years of weaker than expected pink salmon returns.

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Fourth Period: 4-1/2 days (105 hours) - 12:00 Noon July 27 through 9:00 P.M. July 31. This fourth period is a very critical period in that the peak harvest dates and a fairly accurate assessment of total run strength should be evident by period's end. Extensions in fishing time commonly occur off of this period during years when the pink and chum salmon returns are equal to or stronger than expected. The initial pink salmon opening for the Kitoi Bay Section should occur at the beginning of this fishing period.

Fifth Period: 4-1/2 days (105 hours) - 12:00 Noon August 3 through 9:00 P.M. August 7. This fifth period should yield the peak harvest date and should be the peak harvest period in 1993, provided normal run timing occurs. If preseason expectations appear valid, extensions in fishing time could occur in portions of the management area. This period commonly yields the first significant announcement of differential fishing time by management unit as heavy production areas are targeted for extensions, while moderate or lower production areas are not. Extensions in fishing time are not expected for management units located in the N.W. Kodiak District.

Sixth Period: 4-1/2 days (105 hours) - 12:00 Noon August 10 through 9:00 P.M. August 14. This sixth period should be the first postpeak period and is important from the standpoint that returns to major late production systems should be evident by period's end. Also this is a critical period for considering expansions in closed water sanctuaries to enhance escapement levels, and to make a final evaluation of run strength to determine if further reductions in fishing time are needed for the remaining periods to ensure adequate escapement; a strategy for "topping off" escapement for all systems stems from this period.

Seventh Period: 4-1/2 days (102 hours) - 12:00 Noon August 17 through 6:00 P.M. August 21. This seventh period is when a blended, multi-species management approach is needed for those sections where pink salmon were the targeted species for the previous six periods. Emphasis will still be on harvest of excess good quality pink salmon and on achieving at least minimum pink escapements where applicable. However major concern will be directed toward the run strength of late run sockeye and chum salmon.

Eighth Period: 3-1/2 days (78 hours) - 12:00 Noon August 24 through 6:00 P.M. August 27. This eighth period will be primarily a cleanup period for most pink salmon stocks; all escapement requirements should be mostly assured and all excess pink salmon of acceptable quality should be available for harvest in near terminal areas where applicable. Again, this period will require a major emphasis on multi-species management; it is a critical management period for late run sockeye and chum salmon stocks as well as early run coho salmon stocks.

^a Excerpt from RIR 4K93-21, The Kodiak Area Commercial Salmon Fishery Harvest Strategy, 1993 (Prokopowich et al 1993)

Table 17. Commercial salmon buyers and processors, Kodiak Management Area, 1993.

Buyers/Processors ^a	Shorebased Processors			Floating Processors			Product	
	Kodiak City	Kodiak Borough	Other Areas	Kodiak City	Kodiak Borough	Other Areas	Canned	Frozen
Alaska Fresh Seafoods	X							X
All Alaskan Seafoods	X				X			X
Alaska Pacific Seafoods	X						X	X
Wards Cove Packing -Alitak		X					X	X
Wards Cove Packing-Port Bailey		X					X	X
Cook Inlet Processors	X							X
Cook Inlet Processors-Uganik		X					X	
East Point Seafoods	X							X
International Seafoods	X							X
Kodiak King Crab, Inc.	X			X			X	X
Kodiak Salmon Company-Larsen Bay		X					X	X
Western Alaska Seafoods	X							X
Seaside Seafoods	X							X
Inlet Salmon		X						X
Yamaya Seafoods		X						X
Ouzinkie Tribal Council		X						X
Kodiak Smoking & Processing		X						X
TOTALS	9	8	0	1	1	0	6	16

^a In 1993 only 15 individual companies participated in the Kodiak Management Area commercial salmon fisheries. Two companies operated more than one shorebased processing plant, and two companies operated both shorebased and floating processors. The total number of salmon processing locations in the KMA in 1993 was 19.

Table 18. Preliminary commercial salmon harvest and value, by gear type, in the Kodiak Management Area, 1993.

	Chinook ^a	Sockeye ^a	Coho ^a	Pink ^a	Chum ^a	Total	Percent
Purse Seine							
Total #	37,802	2,972,343	246,317	31,715,891	449,104	35,421,457	90.04
Avg. Wt.	11.94	5.12	6.60	3.08	5.95		
Total Lbs.	451,544	15,224,464	1,626,495	97,743,160	2,671,231	117,716,894	87.21
Avg. \$/Lb.	0.78	0.88	0.47	0.16	0.28		
Ex-Vessel \$	354,010.50	13,336,630.46	770,958.63	15,541,162.44	745,273.45	30,748,035.48	79.77
# of Permits= 324							
Average Value	1,092.62	41,162.44	2,379.50	47,966.55	2,300.23	94,901.34	
Percent	1.15	43.37	2.51	50.54	2.42	100.00	
Beach Seine							
Total #	82	774	546	127,078	1,140	129,620	0.33
Avg. Wt.	21.06	4.78	8.57	3.23	6.25		
Total Lbs.	1,727	3,696	4,681	410,528	7,127	427,759	0.32
Avg. \$/Lb.	0.78	0.88	0.47	0.16	0.28		
Ex-Vessel \$	1,353.97	3,237.70	2,218.79	65,273.95	1,988.43	74,072.84	0.19
# of Permits= 9							
Average Value	150.44	359.74	246.53	7,252.66	220.94	8,230.32	
Percent	1.83	4.37	3.00	88.12	2.68	100.00	
Set Gillnet							
Total #	4,315	1,403,153	66,524	2,176,421	138,084	3,788,497	9.63
Avg. Wt.	11.53	5.14	7.12	3.79	6.12		
Total Lbs.	49,766	7,215,549	473,440	8,256,534	844,824	16,840,113	12.48
Avg. \$/Lb.	0.60	0.85	0.35	0.15	0.22		
Ex-Vessel \$	29,859.60	6,104,354.45	167,124.32	1,238,480.10	184,171.63	7,723,990.11	20.04
# of Permits= 176							
Average Value	169.66	34,683.83	949.57	7,036.82	1,046.43	43,886.31	
Percent	0.39	79.03	2.16	16.03	2.42	100.00	
Total All Gear							
Total #	42,199	4,376,270	313,387	34,019,390	588,328	39,339,574	100.00
Avg. Wt.	11.92	5.13	6.72	3.13	5.99		
Total Lbs.	503,037	22,443,709	2,104,616	106,410,222	3,523,182	134,984,766	100.00
Avg. \$/Lb.	0.77	0.87	0.45	0.16	0.26		
Ex-Vessel \$	385,224.06	19,444,222.61	940,301.74	16,844,916.49	931,433.51	38,546,098.43	100.00
% of Total Value	1.00	50.44	2.44	43.70	2.42		100.00
Test Fishery							
Total #	0	1,418	0	30	3	1,451	
Avg. Wt.	0.00	4.86	0.00	3.90	7.00		
Total Lbs.	0	6,897	0	117	21	7,035	
Avg. \$/Lb.	0.60	0.85	0.35	0.15	0.22		
Ex-Vessel \$	0.00	5,834.86	0.00	17.55	4.58	5,856.99	

^a Numbers and pounds of fish are derived from fish ticket summaries. There were 21,594 fish tickets generated in 1993; each fish ticket represents a "landing". Each gear type had the following number of landings: Purse Seine: 12,730, Beach Seine: 165, and Set Gillnet: 8,668. Average \$/lb. figures are based on CFEC reports and reflect additional payments which were made for dock deliveries and postseason settlements.

Table 19. Salmon average weights and average price per pound, by species, from commercial salmon fisheries of the Kodiak Management Area, 1988-1993.

	Chinook	Sockeye	Coho	Pink	Chum
1988					
Avg. Wt.	13.22	5.73	8.47	3.78	8.89
Avg. \$/lb.	\$1.45	\$2.71	\$1.28	\$0.81	\$1.13
1989					
Avg. Wt.	19.22	5.53	9.40	3.57	8.75
Avg. \$/lb.	\$1.17	\$1.79	\$0.65	\$0.37	\$0.39
1990					
Avg. Wt.	12.19	5.20	8.23	3.18	7.69
Avg. \$/lb.	\$1.03	\$1.55	\$0.77	\$0.33	\$0.50
1991					
Avg. Wt.	12.14	5.11	7.26	2.92	6.98
Avg. \$/lb.	\$0.72	\$0.92	\$0.54	\$0.13	\$0.30
1992					
Avg. Wt.	14.31	5.68	8.18	3.75	7.25
Avg. \$/lb.	\$1.02	\$1.47	\$0.56	\$0.18	\$0.38
1993					
Avg. Wt.	11.92	5.13	6.72	3.13	5.99
Avg. \$/lb.	\$0.77	\$0.87	\$0.45	\$0.16	\$0.26

Average weight information is derived from ADF&G Fish Ticket summaries.

Average price information is from CFEC reports, based on Processor's end of season reports (includes postseason adjustments and bonuses).

Table 20. Commercial salmon harvest vs. the harvest projections for the Kodiak Management Area, 1993.

	Chinook	Sockeye	Coho	Pink	Chum	Total
1993 Projected Harvest ^a	21,000	2,208,000	290,000	21,575,000	1,200,500	25,294,500
1993 Actual Harvest	42,200	4,377,700	313,400	34,019,400	588,300	39,341,000

FISHERY	1993 HARVEST ^a	
	Projection	Actual ^b
Early Run Sockeye Salmon Fisheries (6/9-7/15)		
Cape Igvak	230,000	340,500
Karluk	350,000	1,366,300
Ayakulik	138,000	588,500
Frazer	232,000	624,800
Upper Station	35,000	58,700
Minor Systems	50,000	144,700
Other	70,000	187,600
Sub-Total	1,105,000	3,311,100
Late Run Sockeye Salmon Fisheries (7/16-9/15)		
Afognak (Hatchery)	18,000	20,900
Cape Igvak	95,000	71,600
Karluk	325,000	464,400
Ayakulik	92,000	500
Frazer	58,000	58,200
Upper Station	410,000	258,300
Minor Systems	75,000	13,800
Other	30,000	178,900
Sub-Total	1,103,000	1,066,600
TOTAL SOCKEYE	2,208,000	4,377,700
Coho Salmon Fisheries (8/1-10/1)		
Afognak (Hatchery)	5,000	16,000
Afognak (Natural)	35,000	55,700
Westside	135,000	95,600
Alitak	25,000	19,200
Eastside/Northend Kodiak	50,000	101,400
Mainland	40,000	25,500
Sub-Total	290,000	313,400
Pink Salmon Fisheries (7/6-9/5)		
Afognak (Hatchery)	6,500,000	12,076,700
Afognak (Natural)	850,000	2,618,400
Westside Kodiak	4,750,000	9,079,700
Alitak	2,870,000	3,465,500
Eastside/Northend Kodiak	5,750,000	5,413,400
Mainland	855,000	1,365,700
Sub-Total	21,575,000	34,019,400

-Continued-

Table 20. (page 2 of 2)

FISHERY	1993 HARVEST	
	Projection	Actual ^b
Chum Salmon Fisheries (6/6-9/5)		
Afognak (Hatchery)	500	600
Afognak (Natural)	60,000	73,000
Westside Kodiak	390,000	248,100
Alitak	70,000	53,700
Eastside/Northend Kodiak	275,000	128,700
Mainland	405,000	84,200
Sub-Total	1,200,500	588,300
GRAND TOTAL	25,294,500^c	39,341,000^d

^a In numbers of fish.

^b Actual harvest estimates by fishery as of 10/93. Harvest estimates by fishery could change as further stock composition work is completed.

^c Includes 21,000 chinook - projected harvest.

^d Includes 42,200 chinook - actual harvest.

Table 21. Average weight and total harvest of sockeye salmon from the commercial fisheries of the Kodiak Management Area, 1969 - 1993.

YEAR	AVERAGE WEIGHT ^a	HARVEST ^b
1969	5.4	591,481
1970	6.0	917,045
1971	6.4	478,479
1972	5.9	222,800
1973	6.5	167,341
1974	6.3	418,761
1975	6.1	136,418
1976	6.3	641,484
1977	6.8	623,468
1978	6.4	1,071,782
1979	6.1	631,735
1980	5.4	651,394
1981	5.8	1,288,980
1982	6.0	1,204,793
1983	5.8	1,231,989
1984	5.7	1,950,439
1985	4.7	1,843,185
1986	5.8	3,188,269
1987	6.3	1,792,819
1988	5.7	2,698,637
1989	5.5	2,529,068
1990	5.2	5,248,339
1991	5.5	5,704,041
1992 ^c	5.7	4,167,877
1993 ^c	5.1	4,377,688

^a Weight in pounds. Data from Kodiak Management Area Annual Reports.

^b Harvest in number of fish.

^c Preliminary data.

Table 22. Estimated salmon harvest and value by gear type in the Kodiak Management Area, 1970-1993.

Year	Total Catch ^a	Total Value ^b	Average Exvessel Value		
			Purse Seine	Beach Seine	Set Net
1970	13,949,206	\$21,658,000	\$41,880	\$10,470	\$21,083
1971	6,378,179	4,973,000	13,397	2,919	3,015
1972	3,883,197	3,909,000	9,233	647	1,451
1973	1,001,343	2,094,000	5,075	251	852
1974	3,329,427	4,808,000	15,993	4,406	4,828
1975	3,187,410	3,831,000	13,300	5,600	3,849
1976	12,484,451	16,976,000	43,017	11,035	14,481
1977	7,976,691	18,873,142	46,942	12,107	19,117
1978	16,942,215	30,357,179	70,685	14,772	22,711
1979	12,420,260	22,958,317	51,263	20,348	23,363
1980	19,157,249	27,410,296	62,363	23,385	21,215
1981	13,094,099	32,647,230	79,877	26,946	34,785
1982	10,891,952	18,803,822	39,309	11,038	28,889
1983	7,081,976	13,405,578	30,239	5,918	16,689
1984	13,678,005	25,948,012	71,550	12,341	26,552
1985	9,897,903	20,428,111	57,782	8,405	27,517
1986	16,304,165	38,723,877	92,696	11,885	68,700
1987	7,746,980	31,107,864	79,814	15,664	41,163
1988	19,009,757	103,816,936	252,403	47,017	119,013
1989 ^c	26,455,944	61,046,024	146,502	28,288	72,955
1990	12,122,389	52,611,853	113,326	10,424	66,715
1991	23,723,008	37,018,505	77,509	5,257	53,817
1992	8,462,464	40,495,222	98,086	5,436	41,984
1993	39,341,025	38,546,098	94,901	8,230	43,886
Average 1970-1993 ^d :					
	13,413,882	\$29,236,829	\$69,876	\$13,165	\$33,853
Average 1970-1979:					
	8,155,238	\$13,043,764	\$31,079	\$8,256	\$11,475
Average 1980-1988 ^d :					
	12,984,676	\$34,699,081	\$85,115	\$18,067	\$42,725
Average 1990-1993:					
	20,912,222	\$42,167,920	\$95,956	\$7,337	\$51,600
Last 10 Year Average 1983-1993 ^d :					
	15,736,767	\$40,210,206	\$96,831	\$13,058	\$50,604

^a Includes total commercial harvest, test fisheries, and Kitoi Hatchery cost recovery fishery harvests. These figures are in number of fish.

^b 1970-1976 values are exvessel values based upon inseason prices. They may not include additional value associated with dock deliveries or postseason settlements. 1977-1988 and 1990-1993 values are from Commercial Fisheries Entry Commission reports.

^c Actual harvest was limited in 1989 due to fishery closures caused by the presence of oil from the Exxon Valdez spill. Harvest figures for 1989 include actual and projected harvests on wild stocks, and actual harvest of hatchery stocks from a supplemental cost recovery fishery. The 1989 total value is estimated by multiplying price information from the limited actual wild harvest (from CFEC records) by the projected total harvest had there been no oil spill. The 1989 exvessel value by gear type is estimated by using the 1988 gear levels and proportional harvest by gear type, as if a normal fishery had occurred on a normal distribution of fish.

^d 1989 data are not included in averages.

Table 23. Escapement summary for systems with fish weirs in the Kodiak Management Area, 1993.

Weir Locations	Dates		Salmon Species Enumerated					Total
	Installed	Removed	Sockeye	Chinook	Pink	Coho	Chum	
1. Karluk	5/24	9/29	657,455	13,944	101,672	19,362	142	792,575
2. Red River	5/22	8/29	286,170	7,819	29,597	2,154	36	325,776
3. Dog Salmon	6/8-9	8/29	198,412	337	161,255	4,985	4,158	369,147
4. Frazer Lake ^a	6/14	8/14	178,391 ^a	211 ^a	14 ^a	0 ^a	1 ^a	178,617 ^a
5. Upper Station	5/29	9/11	222,381	0	21,829	6,580	3	250,793
6. Akalura	6/02	9/05	30,692	0	12,928	4,505	11	48,136
7. Saltery	6/23	8/08	77,186	9	92,078	5	3	169,281
8. Buskin	5/30 8/21	7/31 9/29	9,526	10	53,484	6,813	22	69,855
9. Litnik	5/23	9/11	71,460	2	21,830	6,637	0	99,929
10. Paul's Bay	6/10 8/06	7/15 9/01	12,442	1	3,996	10,664	0	27,103
11. Perenosa (Portage)	6/23	7/15	5,363	0	0	0	0	5,363
12. Malina	5/31	8/10	8,273	4	2,202	0	0	10,479
13. Bear Creek (Shuyak)	8/08	9/12	11	0	620	2,048	0	2,679
14. Big Creek (Shuyak)	8/08	9/25	85	0	1,760	2,281	0	4,126
TOTALS			1,579,456	22,126	503,251	66,034	4,375	2,175,242

^a Numbers not used in species totals as Frazer Lake salmon are initially counted through Dog Salmon weir.

Table 24. Indexed peak salmon escapement goals vs. actual indexed escapements, by species, by District, Kodiak Management Area, 1993.

DISTRICT	Sockeye Escapement		Pink Escapement		Chum Escapement		Coho Escapement		Chinook Escapement	
	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual	Goal	Actual
	Minimum/Targeted		Minimum/Targeted		Minimum/Targeted		Minimum/Targeted		Minimum/Targeted	
AFOGNAK	83,000	102,589	83,000	407,757	74	13,500	26,702			-
	154,000		249,000								23,600
NORTHWEST	56,000	47,904	220,000	1,037,525	47,900	9,000	16,335			0
	90,000		660,000								216,000	14,000
SOUTHWEST	760,500	943,625	30,000	131,669	1,553	33,000	28,707	11,000	21,763	
	1,201,000		90,000								150,000	52,000	19,000
ALITAK	386,000	458,485	212,000	949,662	23,742	10,500	21,205	100	337	
	550,000		636,000								114,000	20,000	300
EASTSIDE	29,500	96,586	140,000	873,258	63,900	10,000	22,137			0
	64,000		420,000								264,000	15,000
NORTHEAST	10,000	9,526	110,000	432,300	10,422	10,475	8,610			10
	15,000		330,000								60,000	16,555
MAINLAND	33,500	46,725	215,000	459,410	86,790	4,000	36,300			0
	66,000		645,000								726,000	9,000
TOTAL	1,358,500	1,705,440	1,010,000	4,291,581	234,381	90,475	159,996	11,100	22,113	
	2,140,000		3,030,000								1,530,000	150,155	19,300

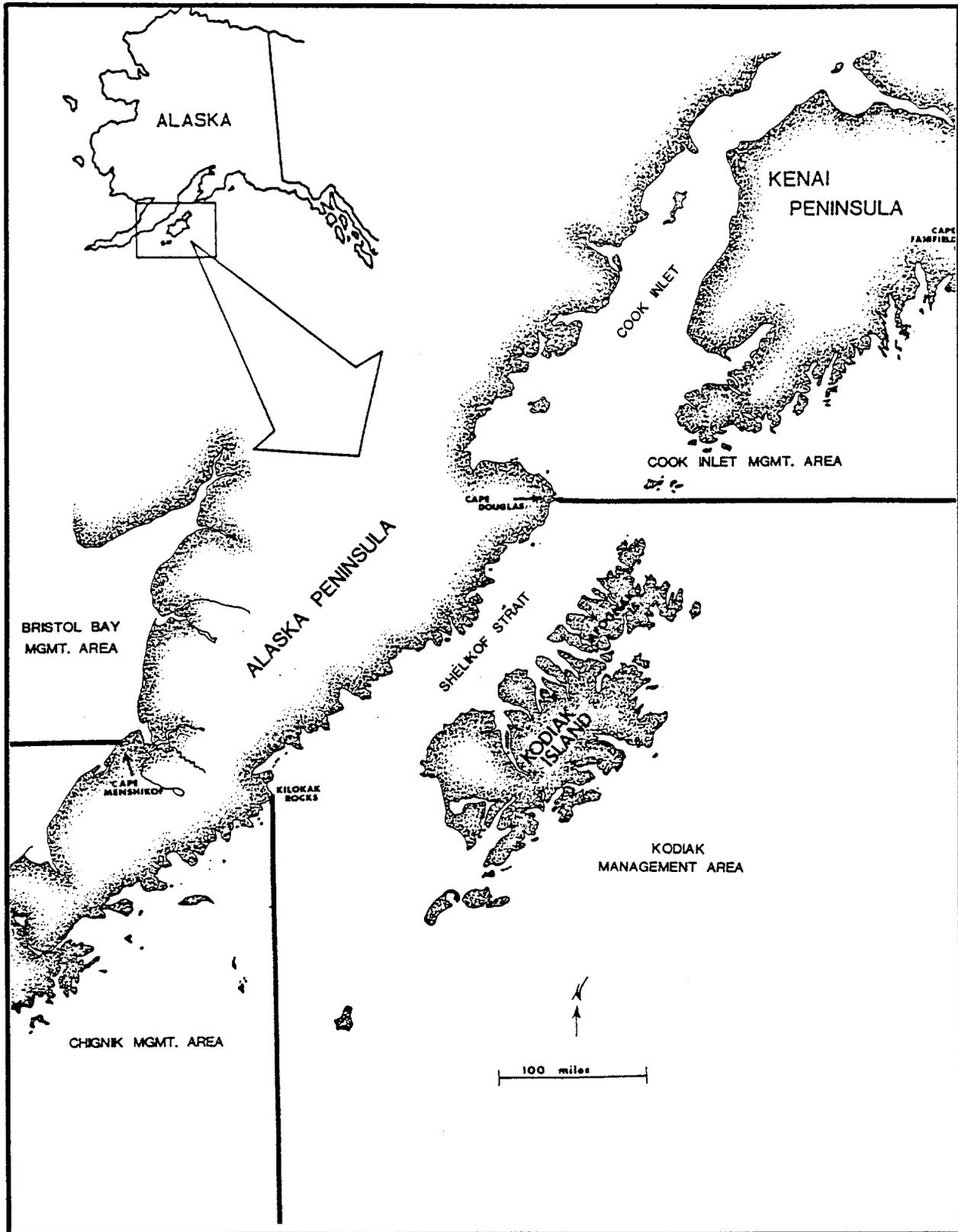


Figure 1. Location of the Kodiak Management Areas, 1993.

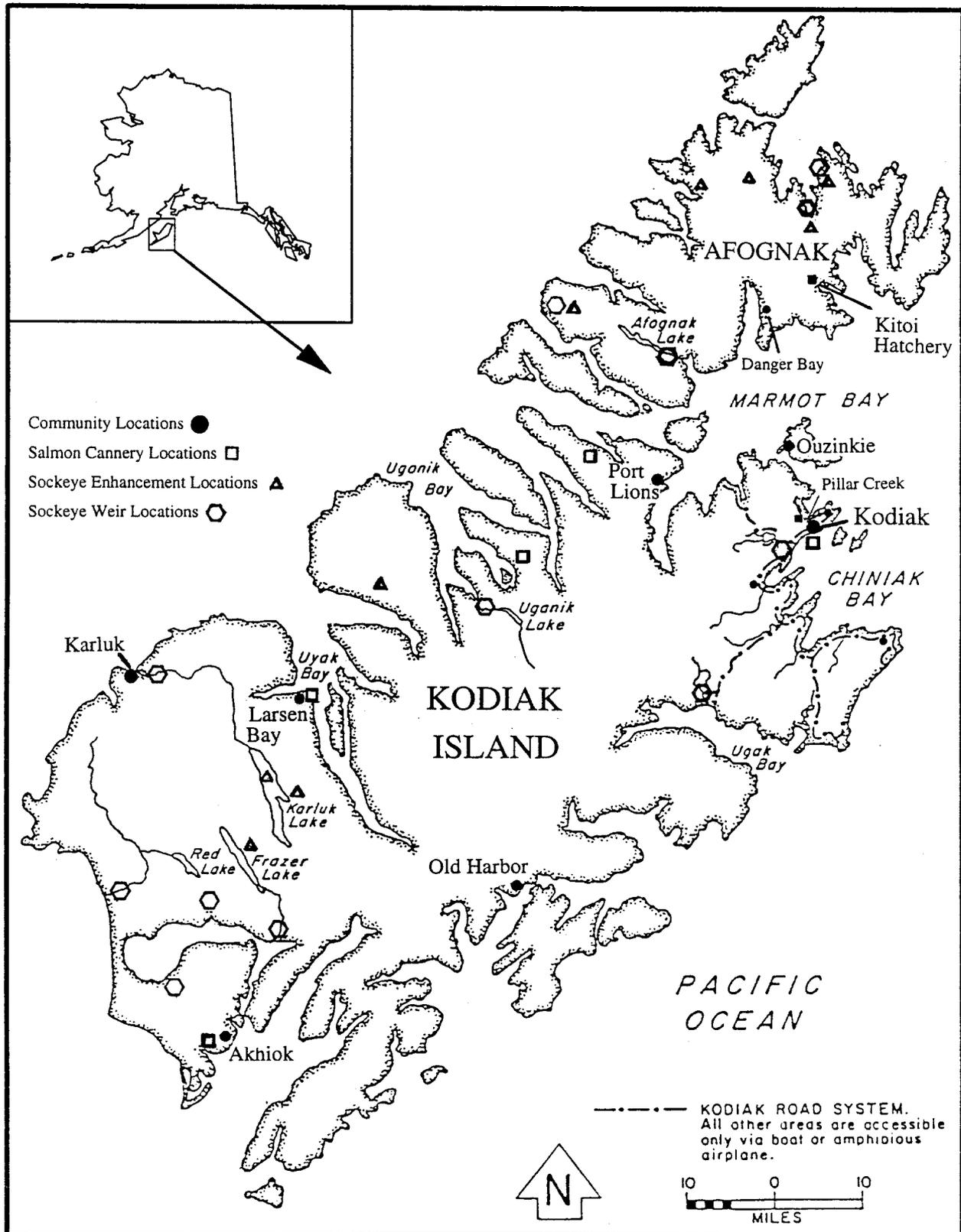


Figure 3. Map of Kodiak Island, showing communities, canneries, and sockeye salmon enhancement and weir locations, of the Kodiak Management Area, 1993.

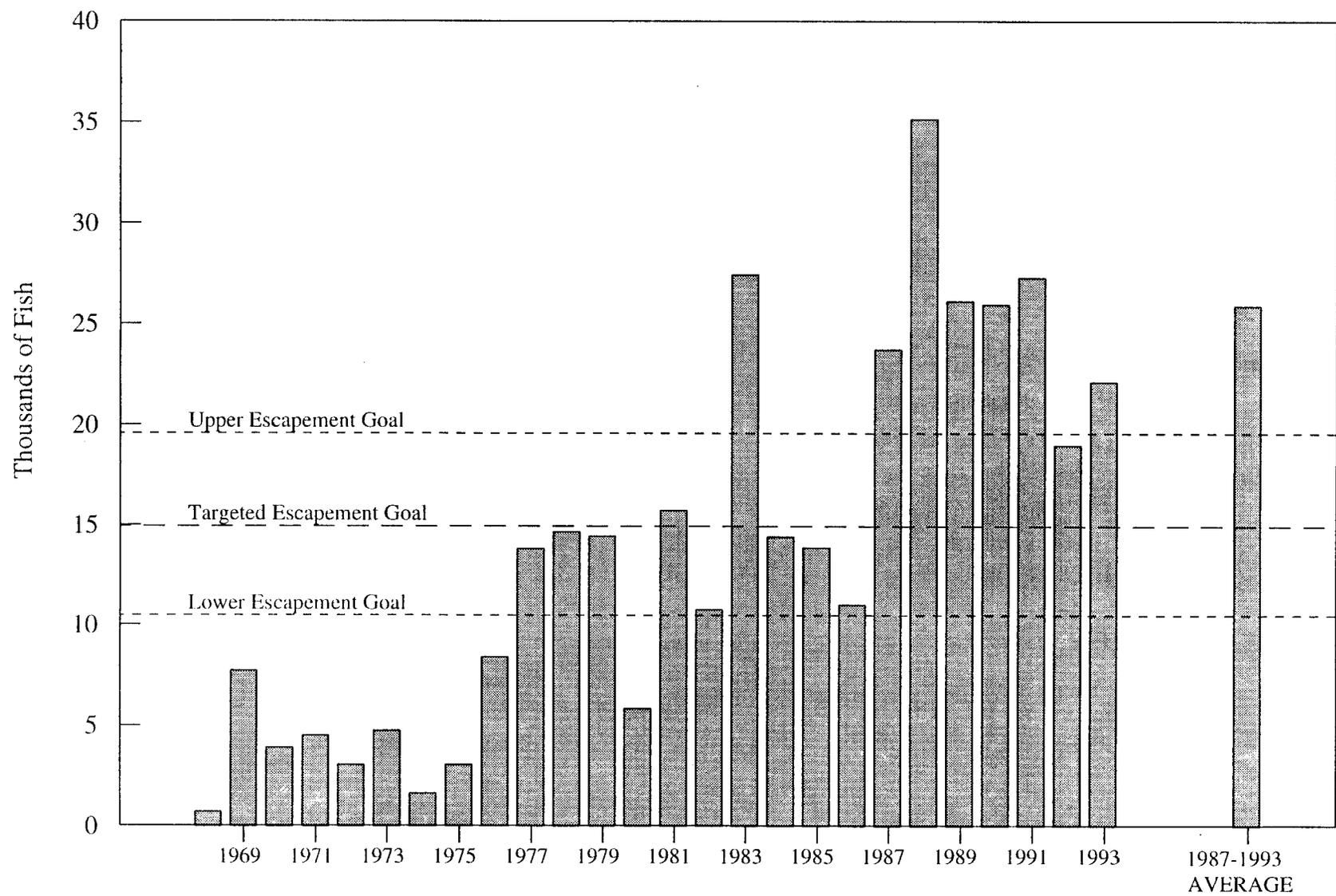


Figure 4. Chinook salmon escapement in the Kodiak Management Area, 1968 - 1993.

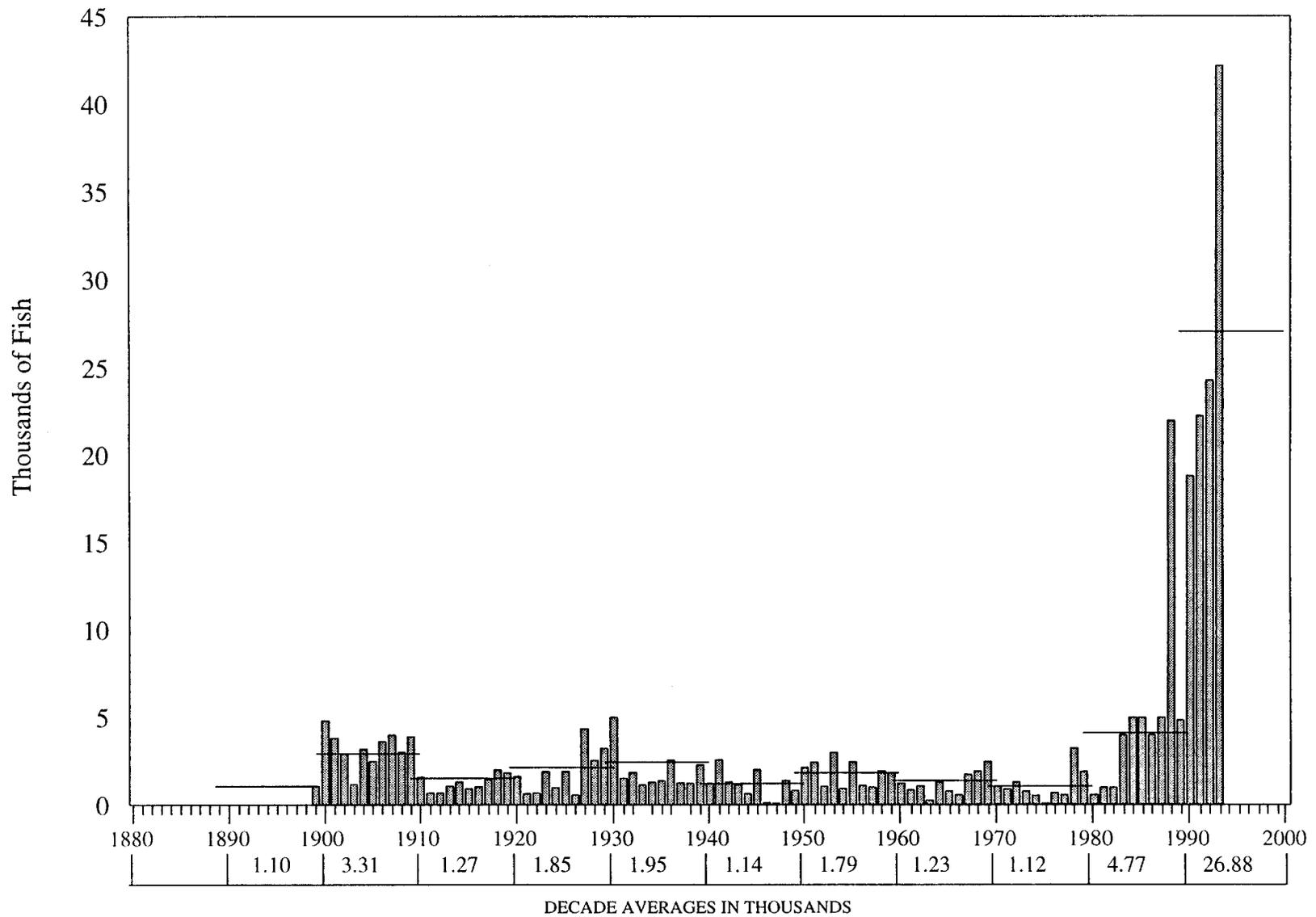


Figure 5. Chinook salmon harvest, all gear combined, in the Kodiak Management Area, 1899 - 1993.

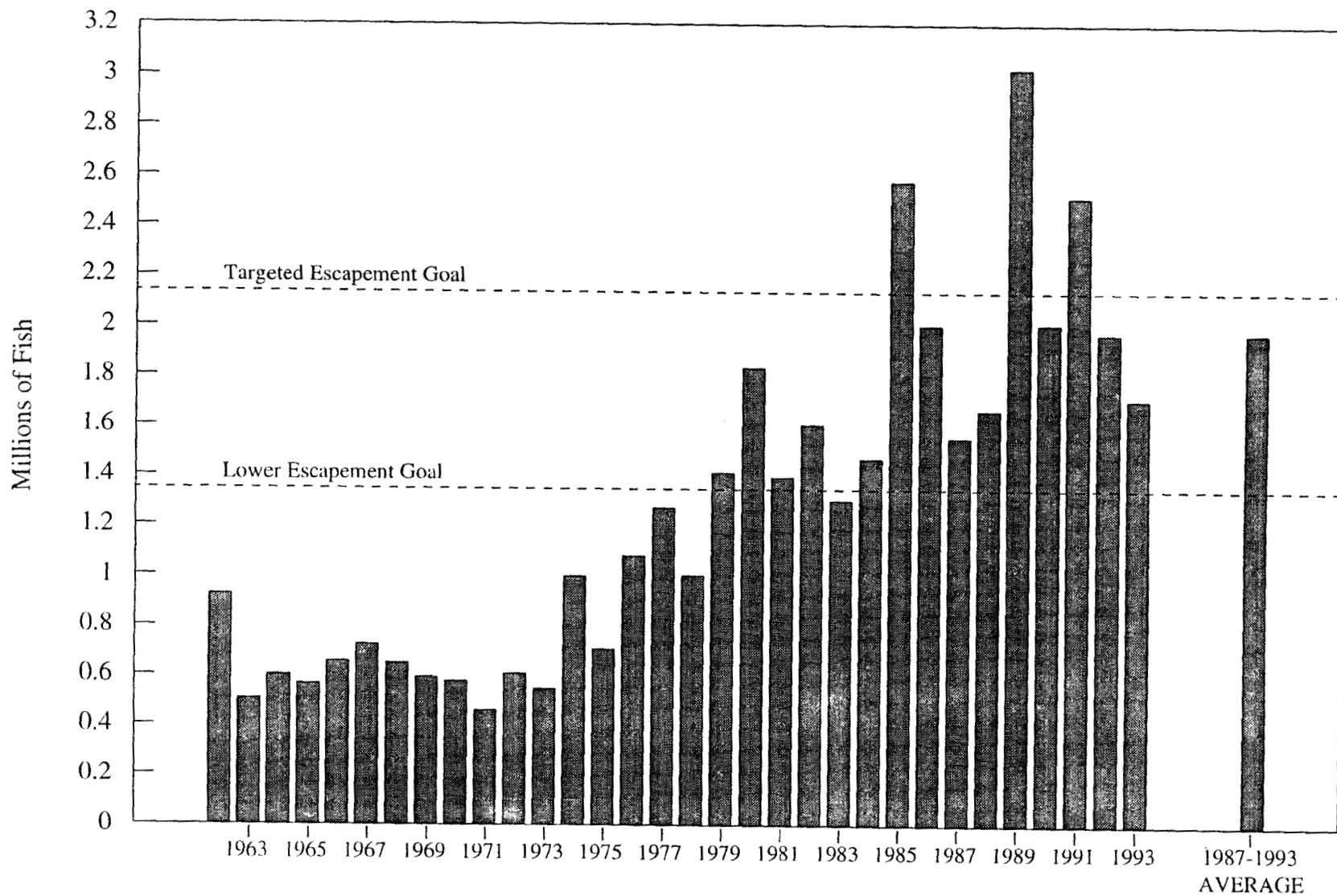


Figure 6. Sockeye salmon escapement in the Kodiak Management Area, 1962 - 1993.

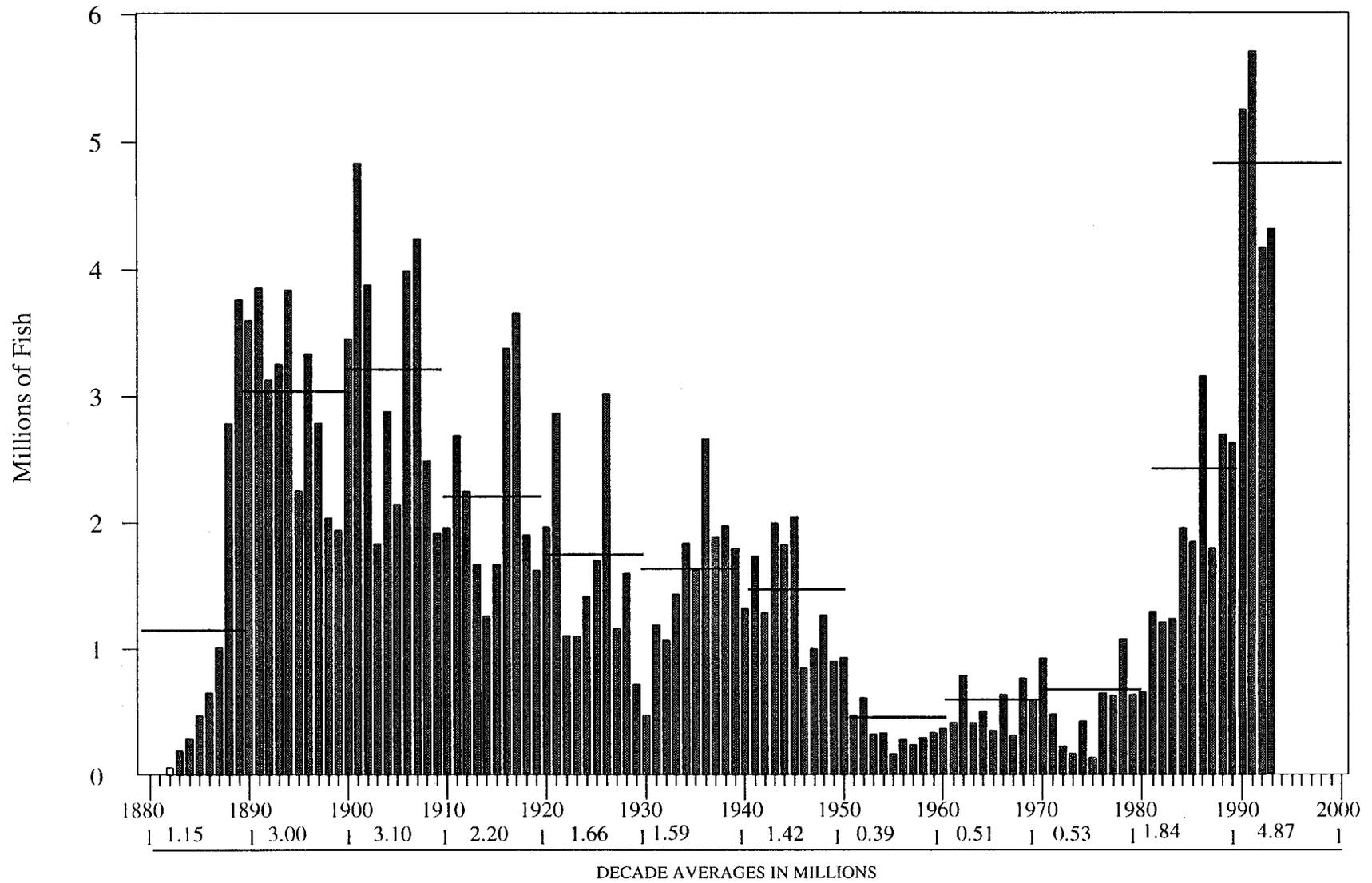


Figure 7. Sockeye salmon harvest, all gear combined, in the Kodiak Management Area, 1882 - 1993.

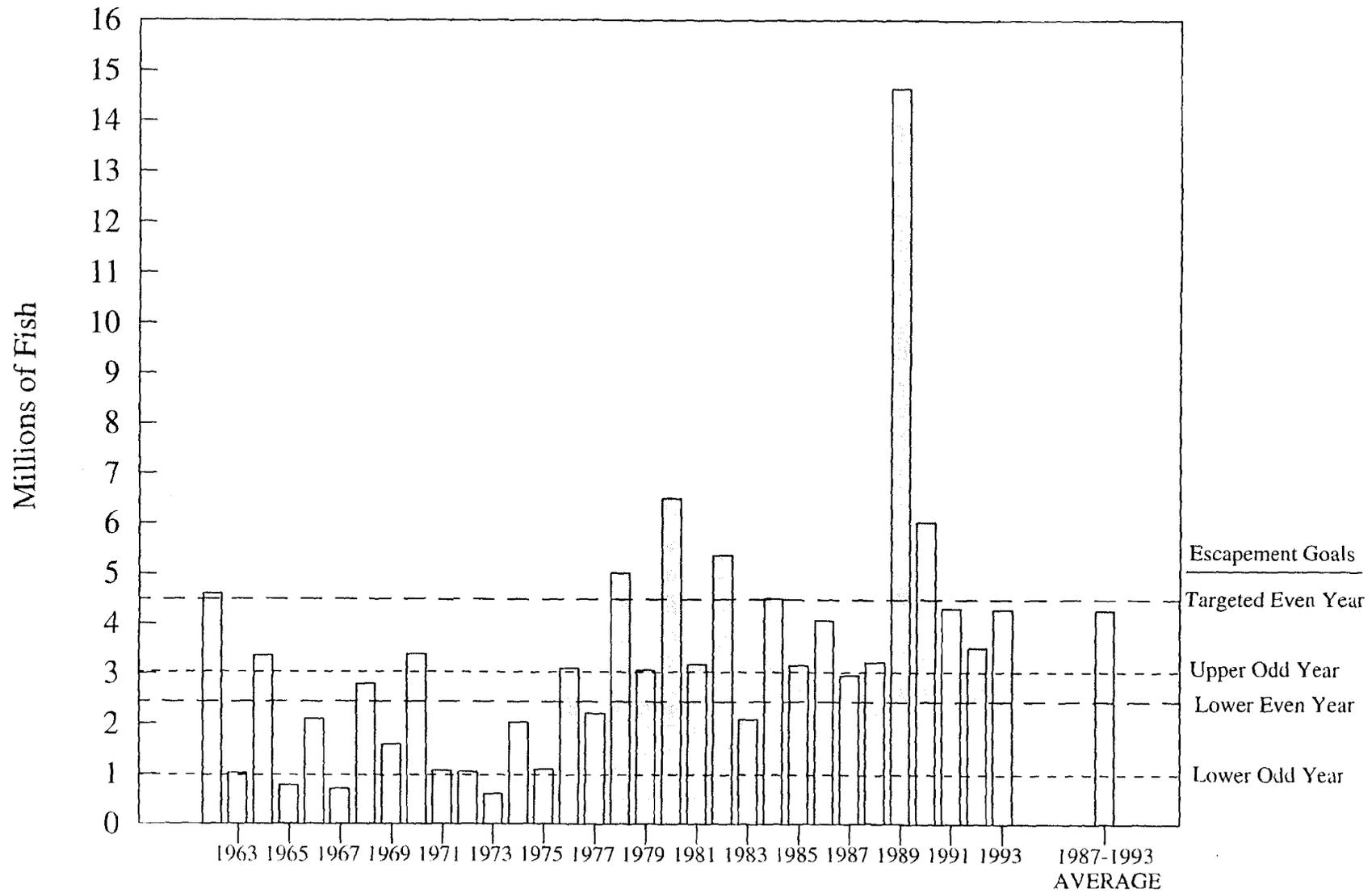


Figure 8. Pink salmon escapement in the Kodiak Management Area, 1962 - 1993.

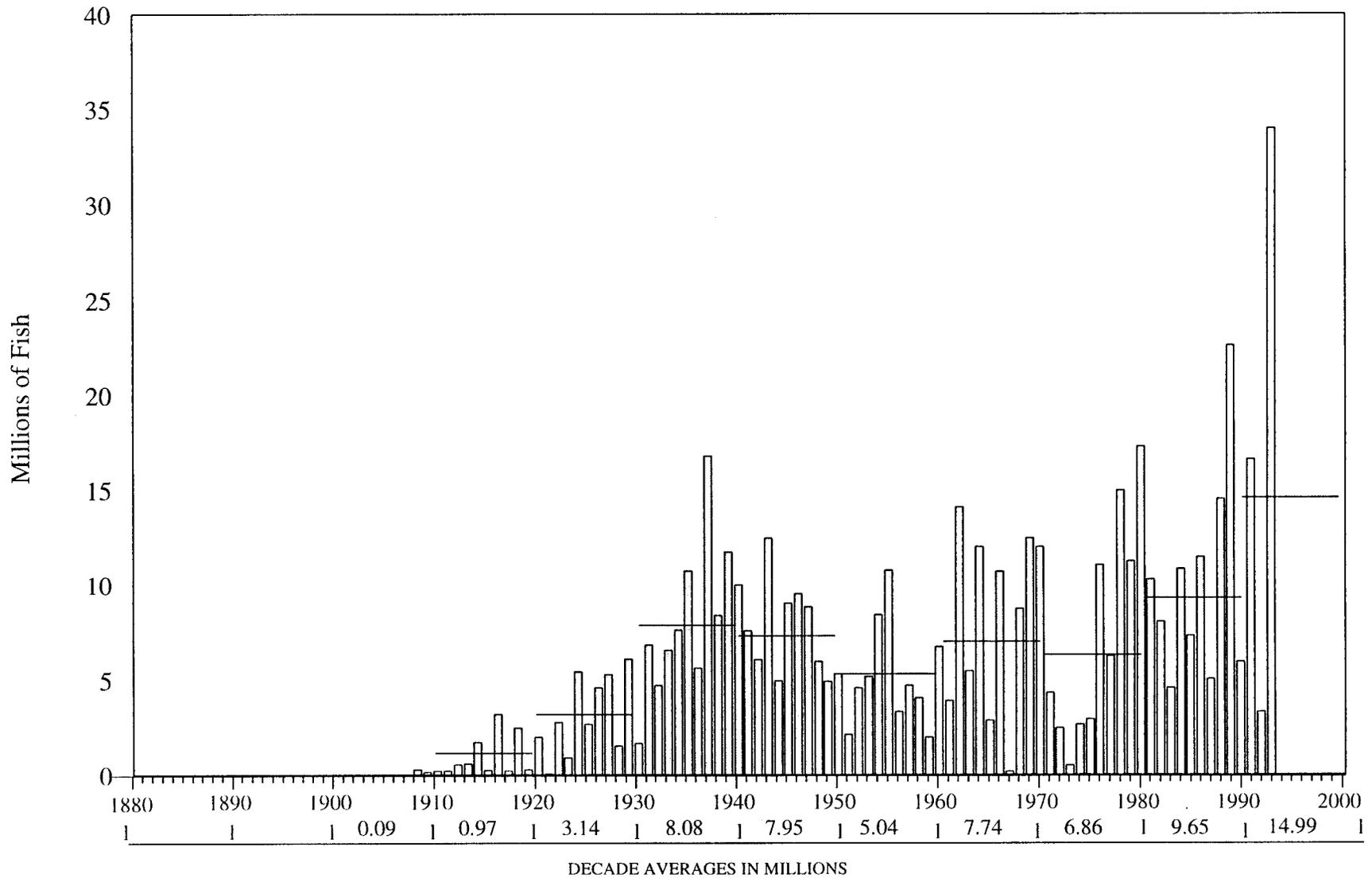


Figure 9. Pink salmon harvest, all gear combined, in the Kodiak Management Area, 1901 - 1993.

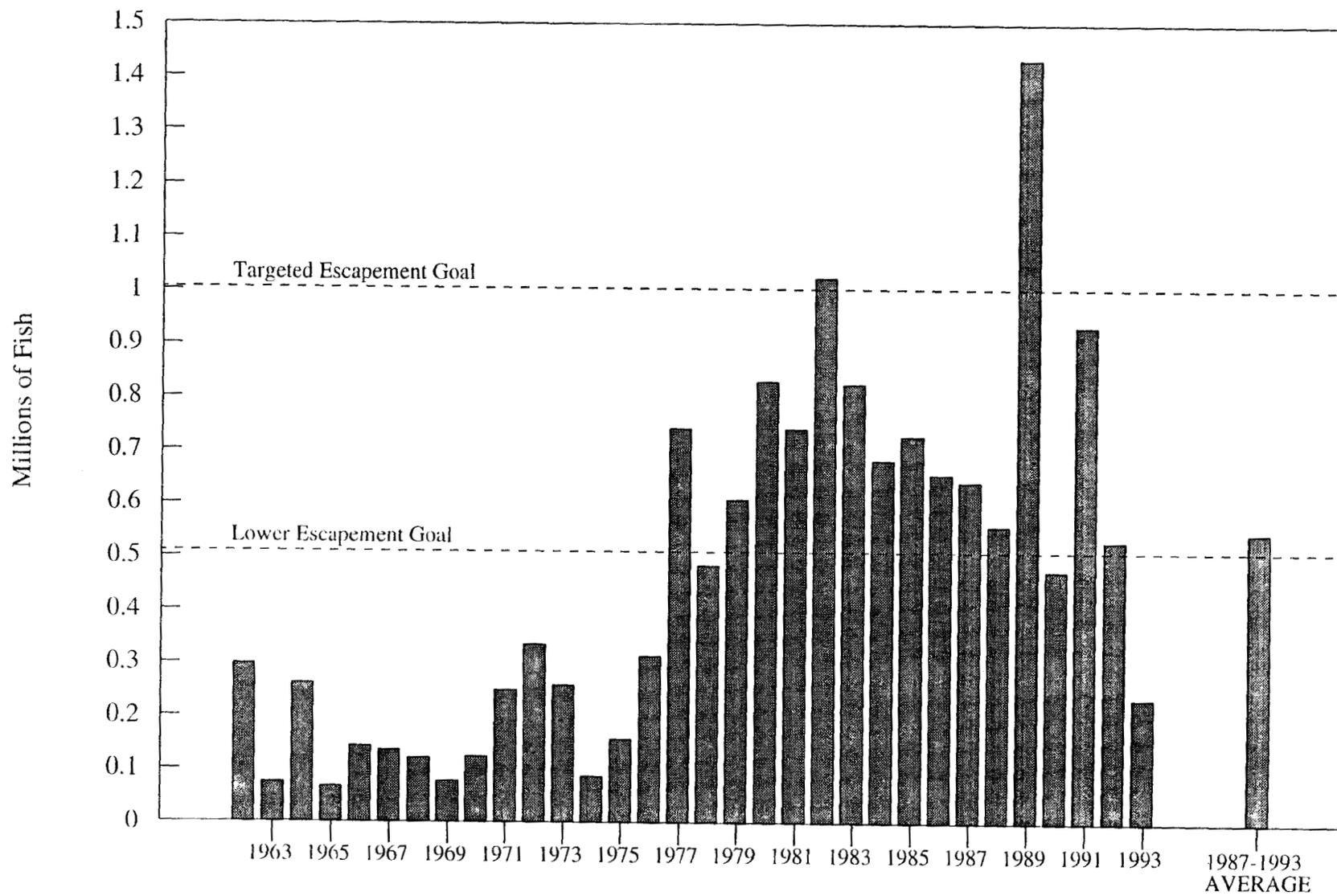


Figure 10. Chum salmon escapement in the Kodiak Management Area, 1962 -1993.

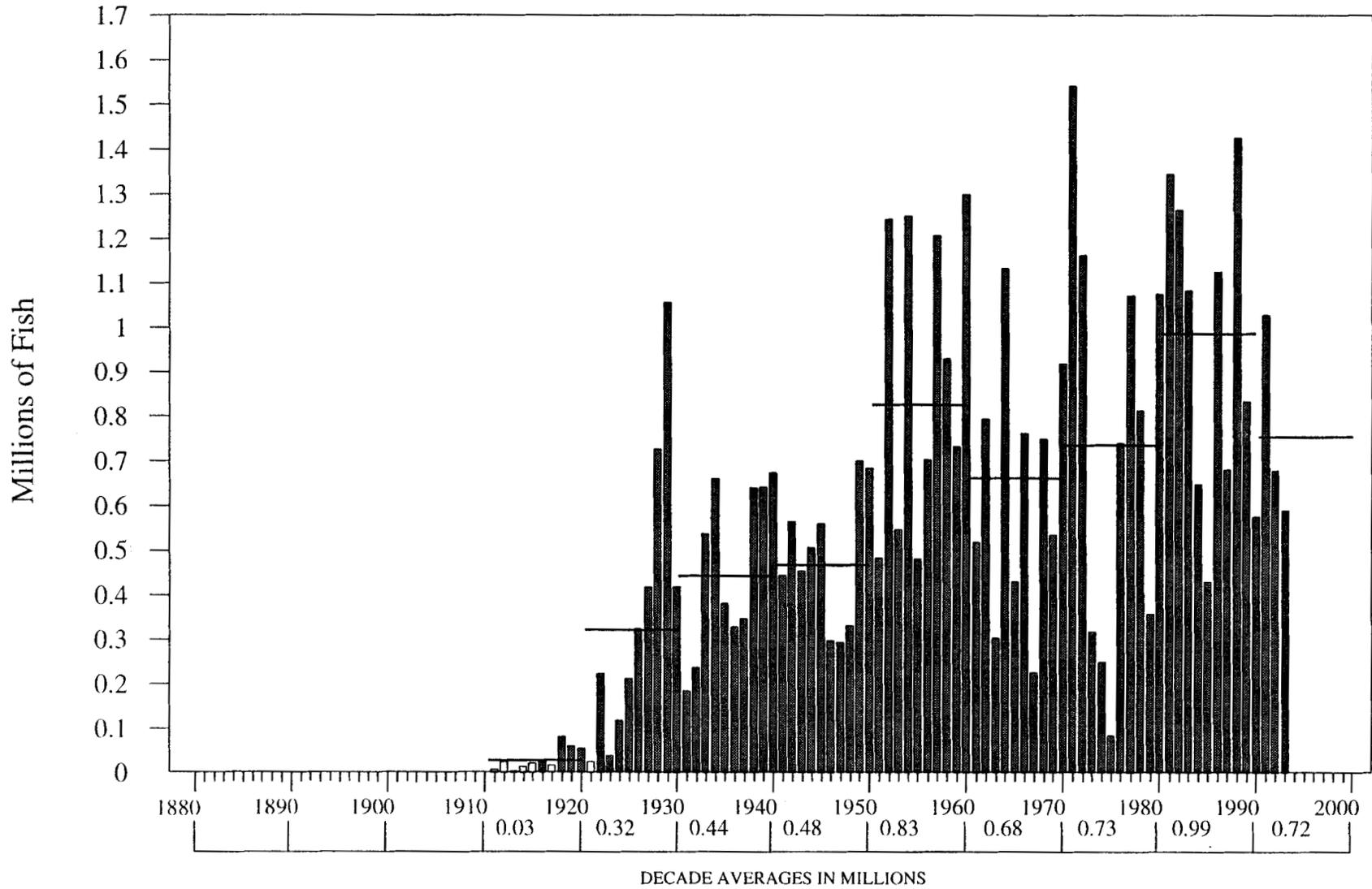


Figure 11. Chum salmon harvest, all gear combined, in the Kodiak Management Area, 1911 - 1993.

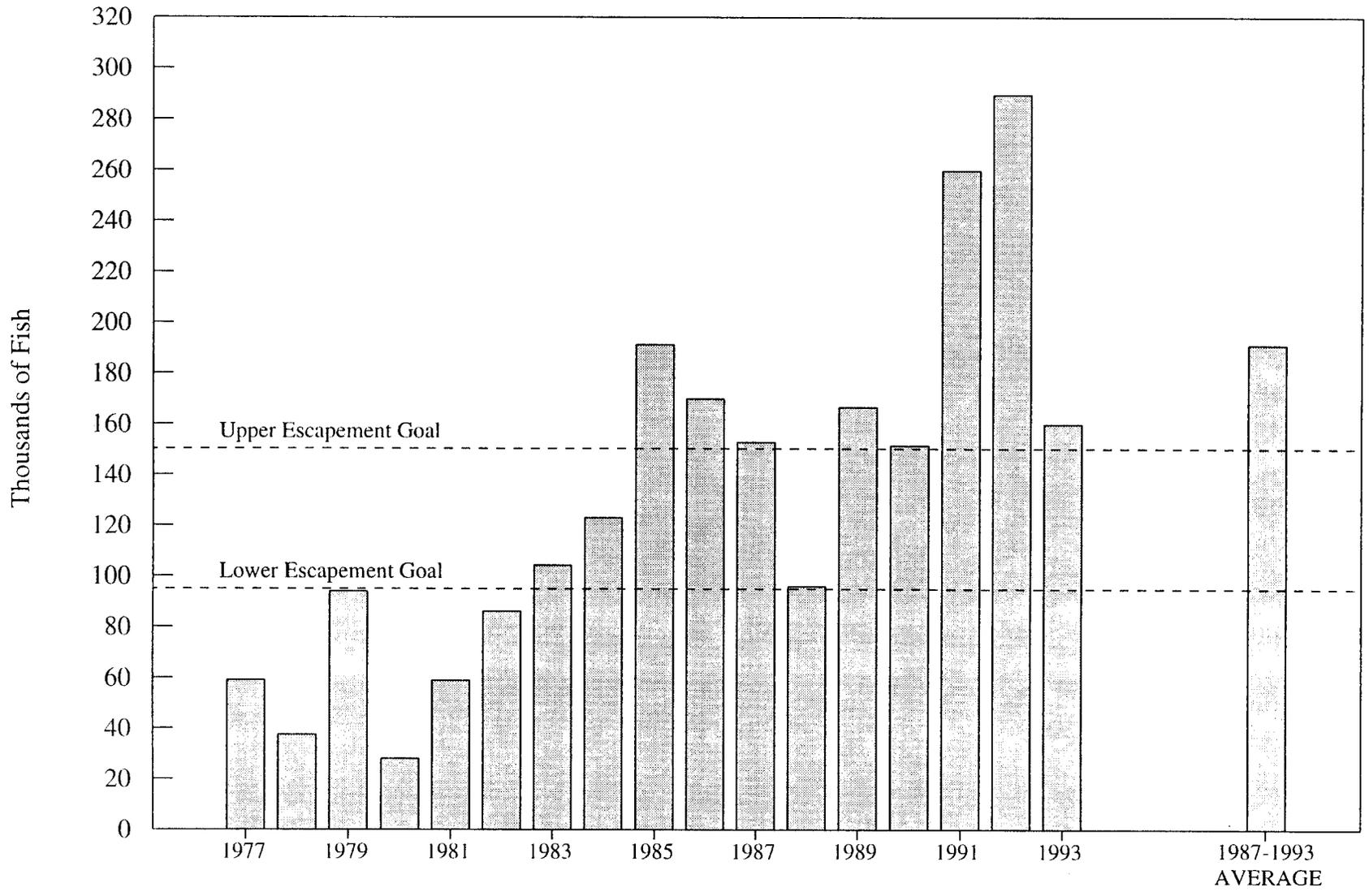


Figure 12. Coho salmon escapement in the Kodiak Management Area, 1977 - 1993.

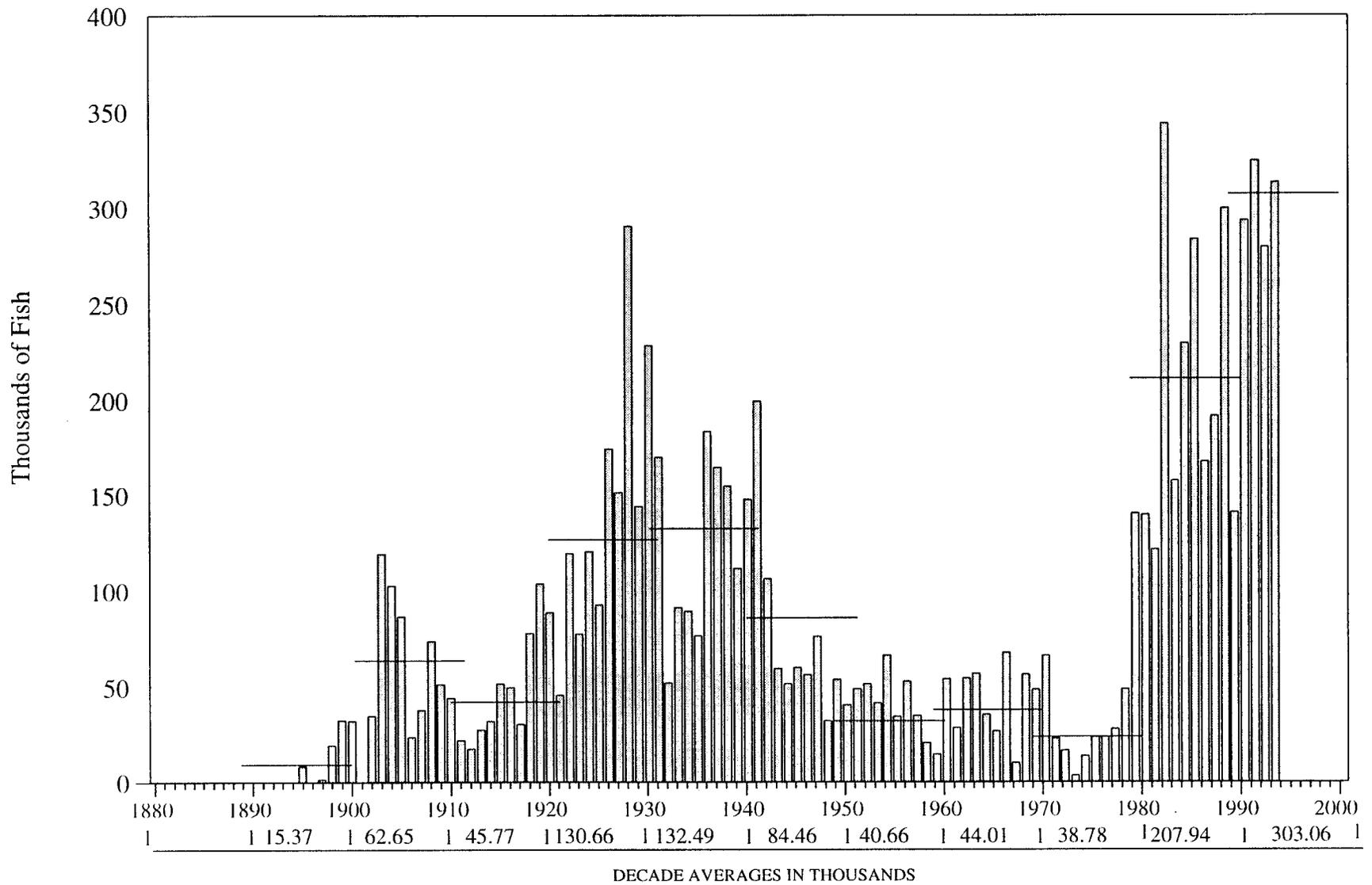


Figure 13. Coho salmon harvest, all gear combined, in the Kodiak Management Area, 1895 - 1993.

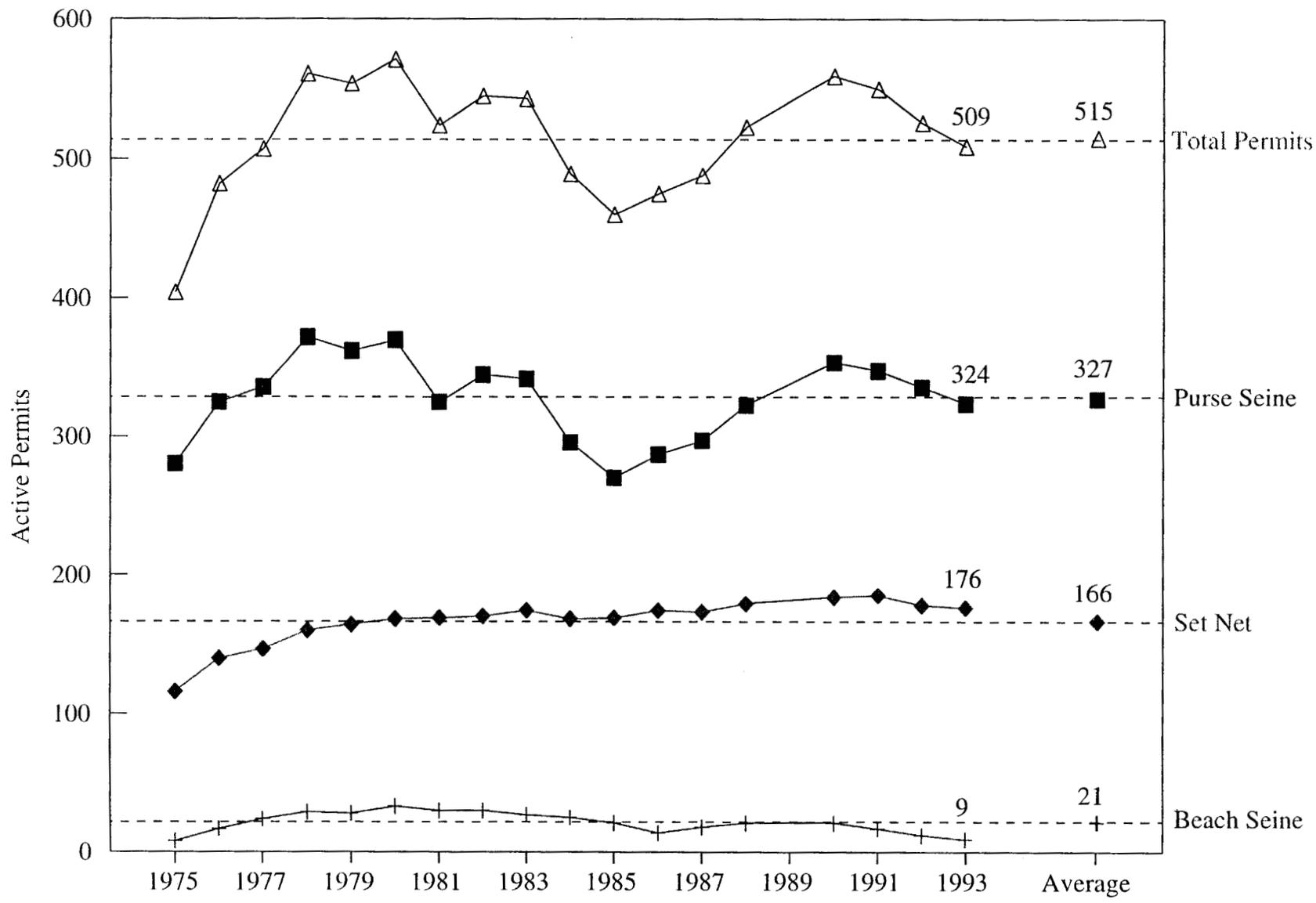
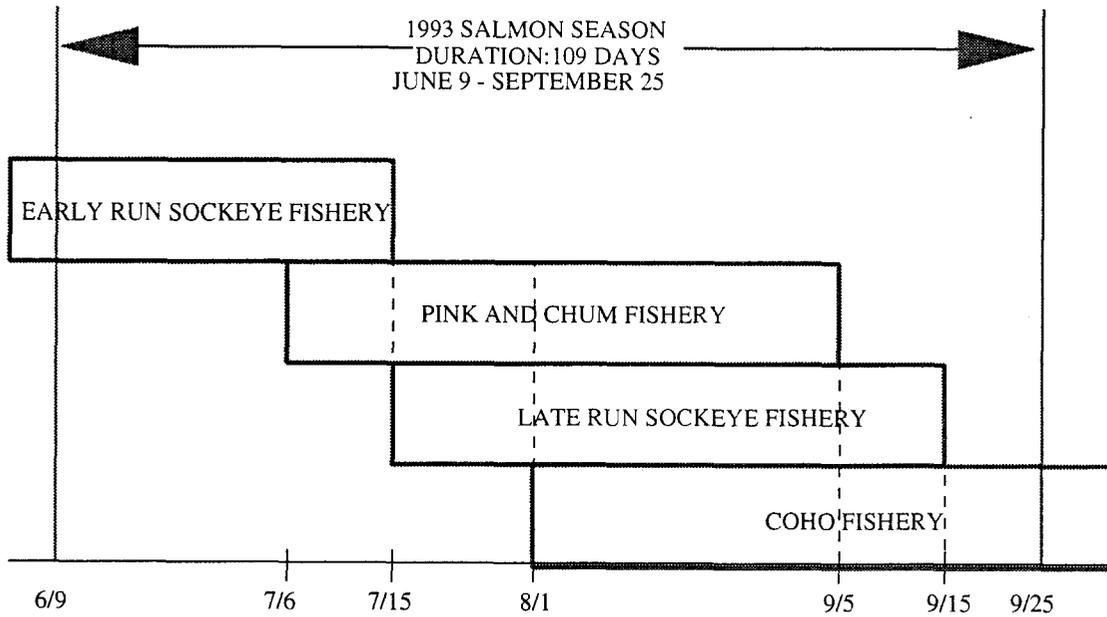


Figure 14. Number of active commercial salmon fishing permits in the Kodiak Management Area, 1975 - 1993.

MANAGEMENT CHRONOLOGY



1993 SALMON HARVEST BY SPECIES

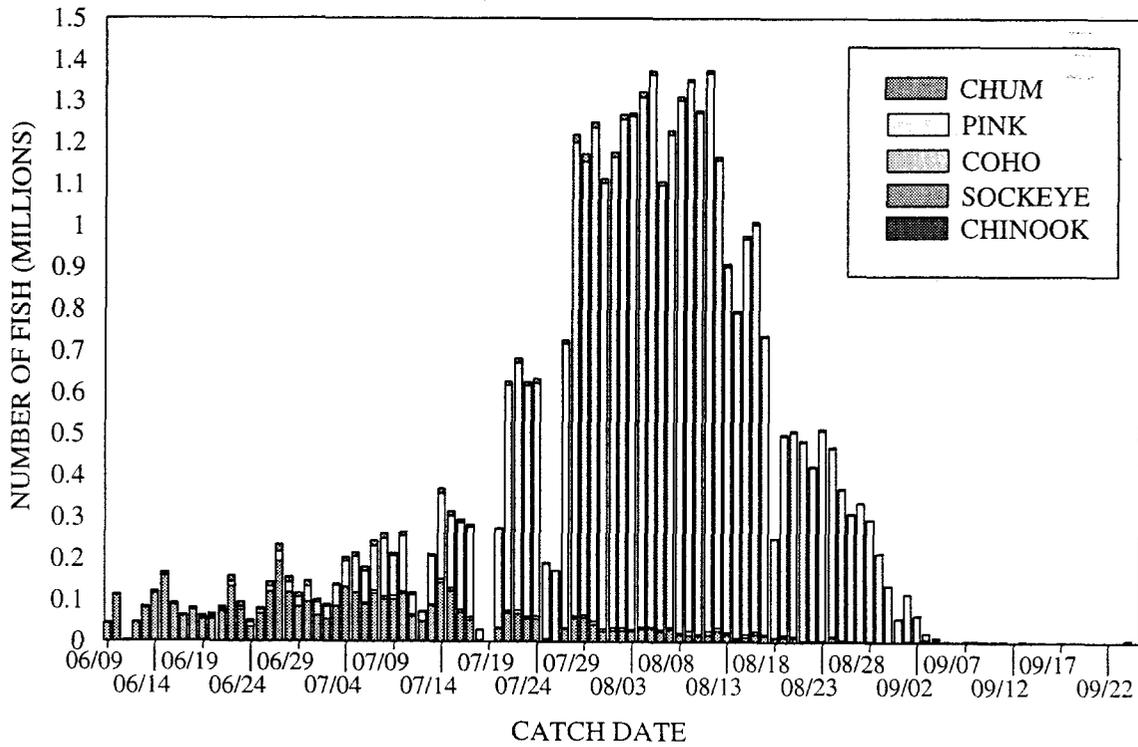
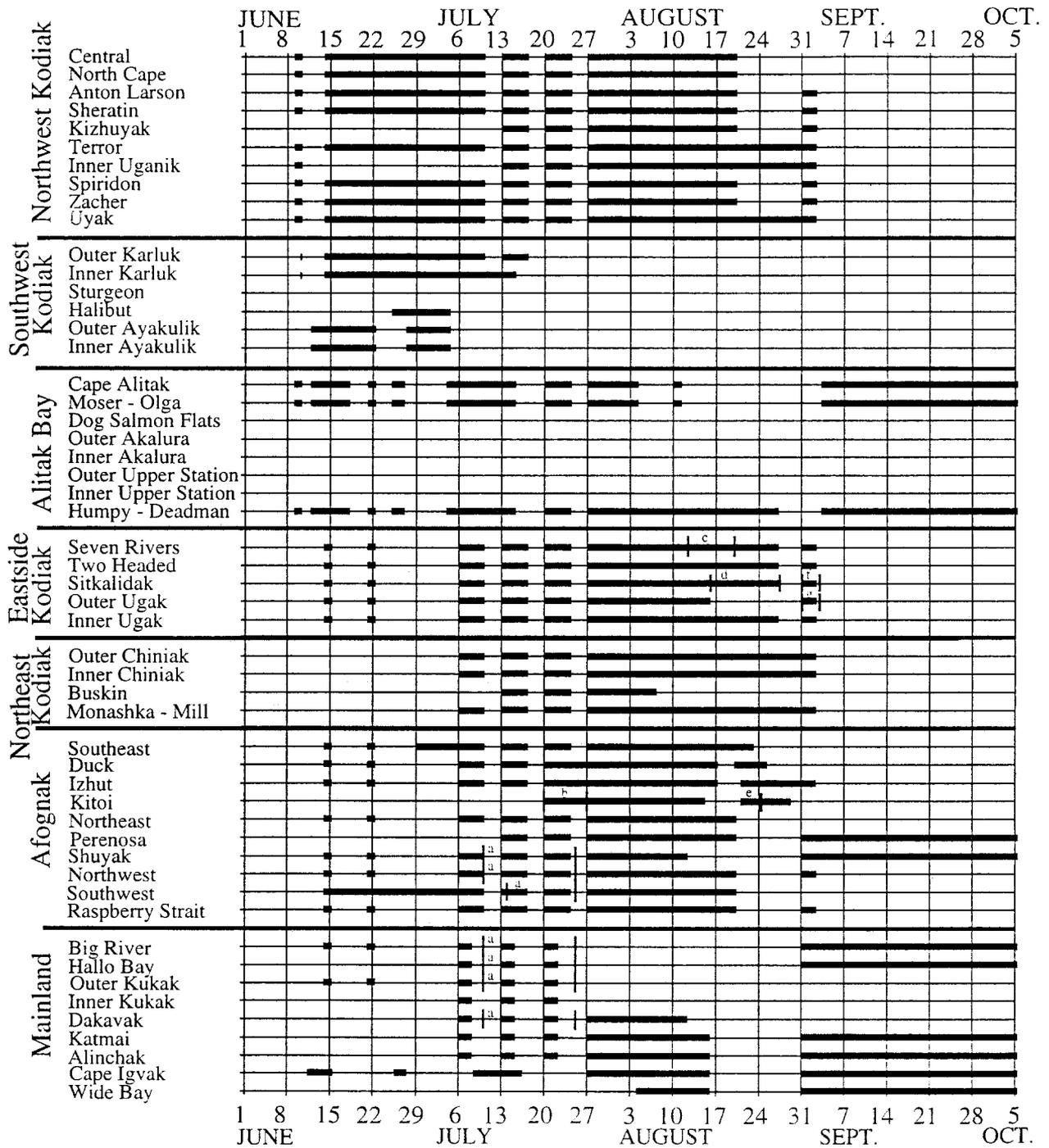


Figure 15. Fishery management and salmon run timing, general chronology of the harvest in the Kodiak Management Area, 1993.



BARS (—) REPRESENT COMMERCIAL SALMON FISHERY OPENINGS

- a Seaward Zones closed.
- b That portion of Kitoi Section west of jaws remains closed.
- c That portion of 7 Rivers Section north of 56° 46' N. Lat. remains closed.
- d That portion of Sitkalidak Section in Kiliuda north and east of a line from Pillar Point to Pivot Point remains closed.
- e Kitoi Section west of jaws remains closed, except for 3 hour flare opener.
- f That portion of Outer Ugak Section west of 152° 30' W. Long. remains closed.
- g That portion of Sitkalidak Section in Kiliuda north and east of a line from Pillar Point to Pivot Point remains closed.

Figure 16. Commercial salmon fishing time, by District and Section, for the Kodiak Management Area, 1993.

Average ExVessel Value, 1970-1993 Kodiak Commercial Salmon Fishery

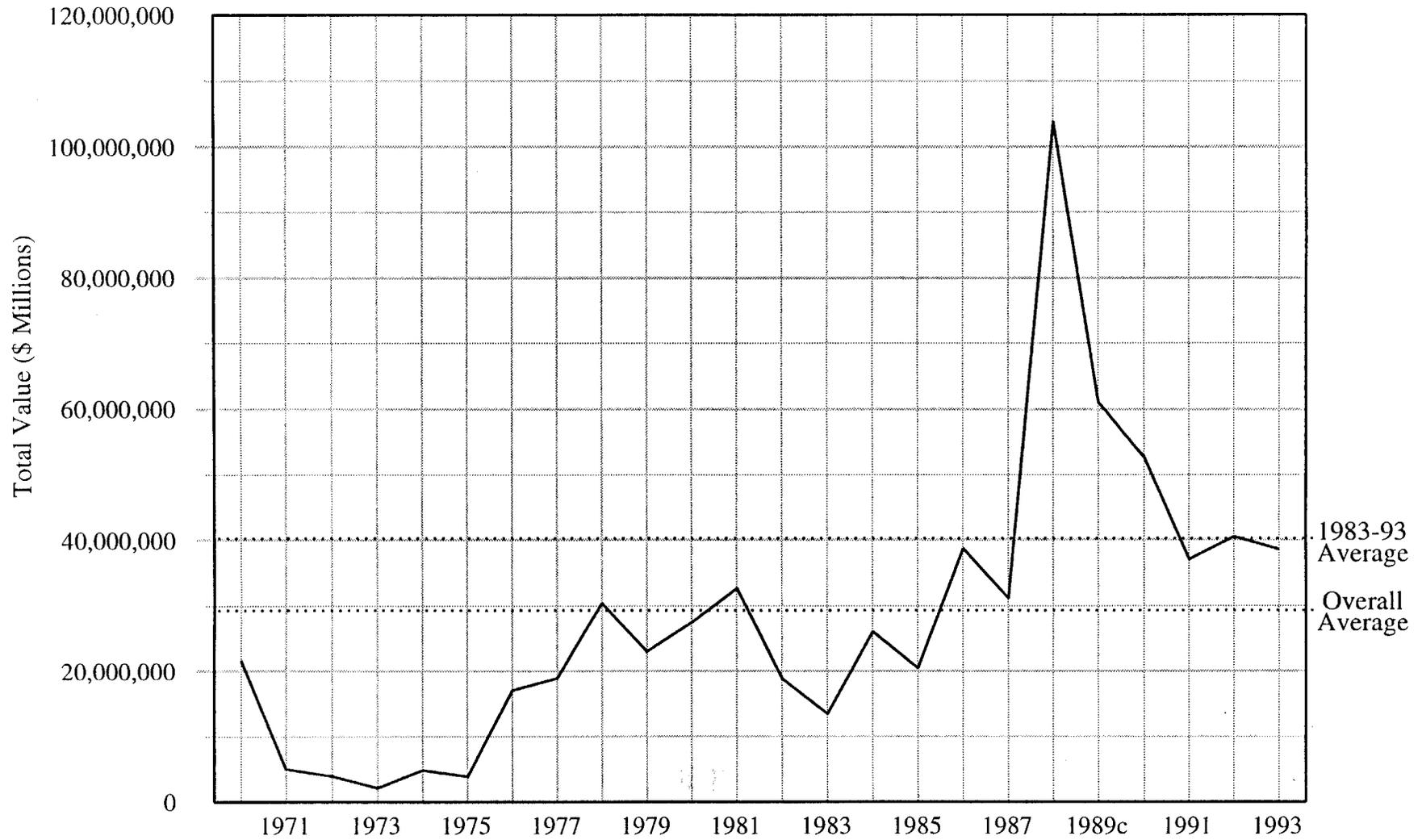
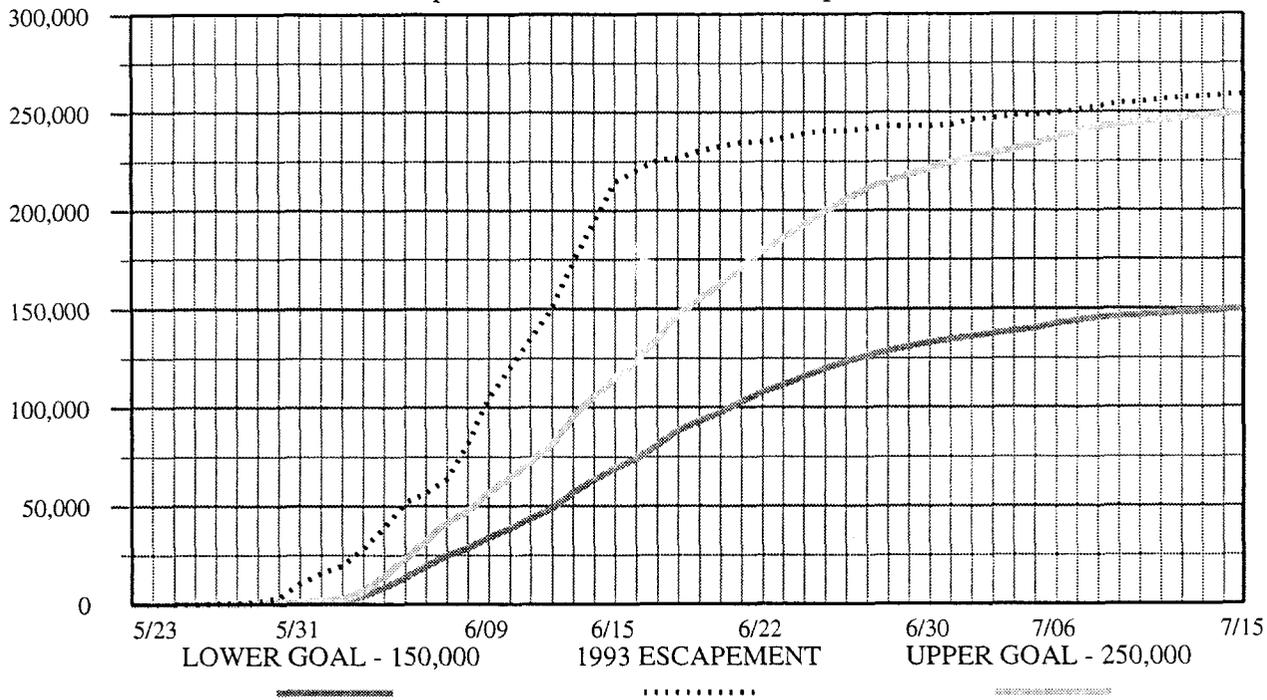


Figure 17. Average exvessel value of the commercial salmon fishery in the Kodiak Management Area, 1975 -1993.

KARLUK SOCKEYE SALMON, EARLY RUN
Escapement Goals and 1993 Escapements



KARLUK SOCKEYE SALMON, LATE RUN
Escapement Goals and 1993 Escapements

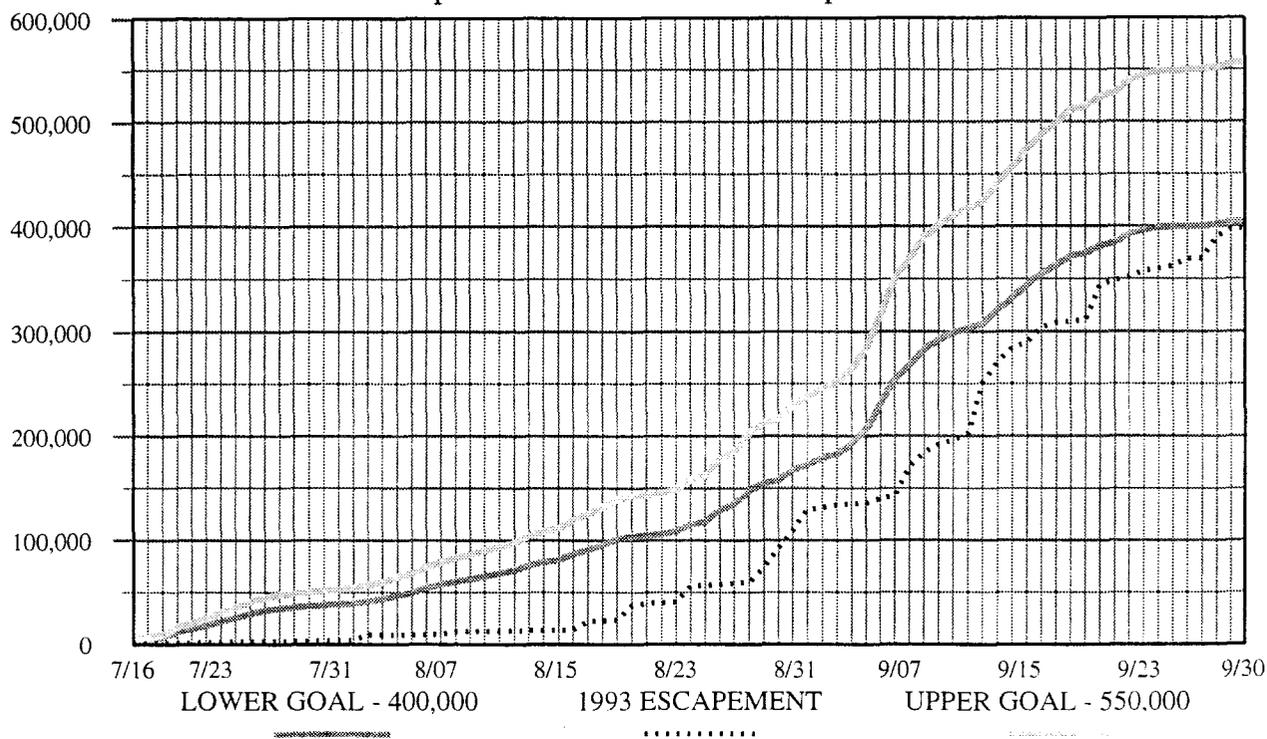
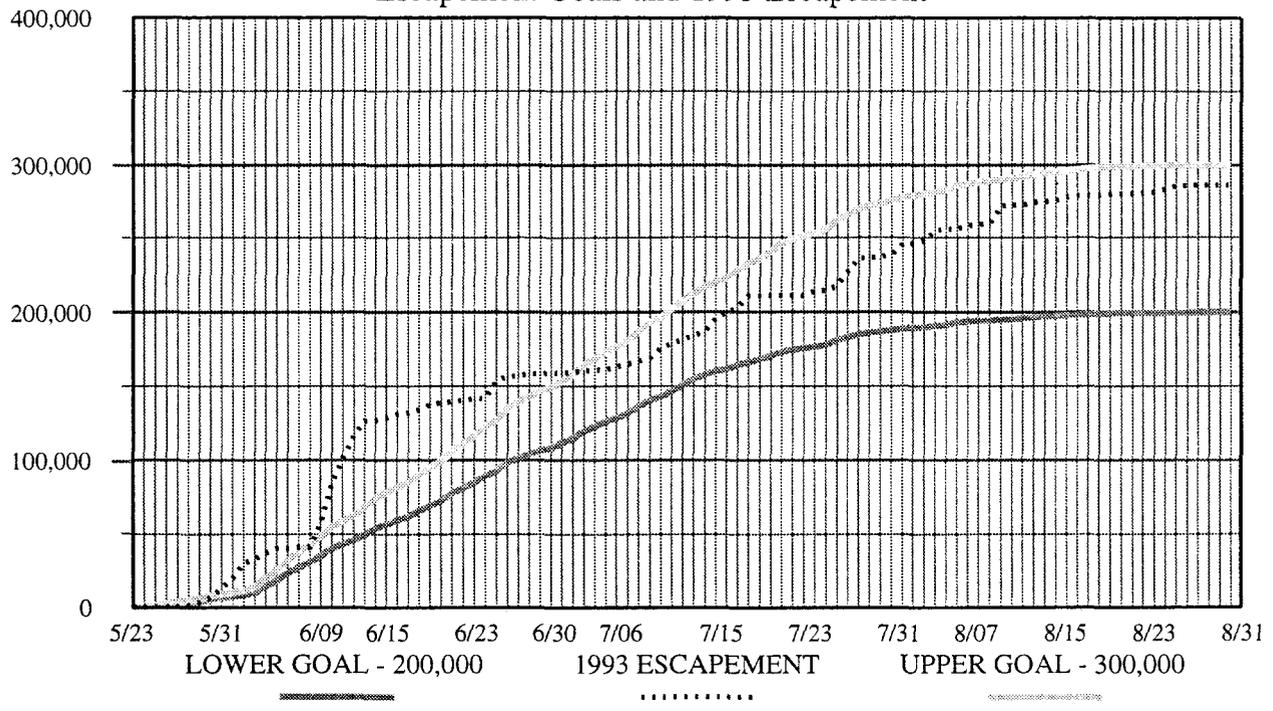


Figure 18. Sockeye salmon escapement goals vs. actual escapement for the Karluk Lake system of the Kodiak Management Area, 1993.

AYAKULIK SOCKEYE SALMON
Escapement Goals and 1993 Escapement



DOG SALMON RIVER SOCKEYE SALMON
Escapement Goals and 1993 Escapement

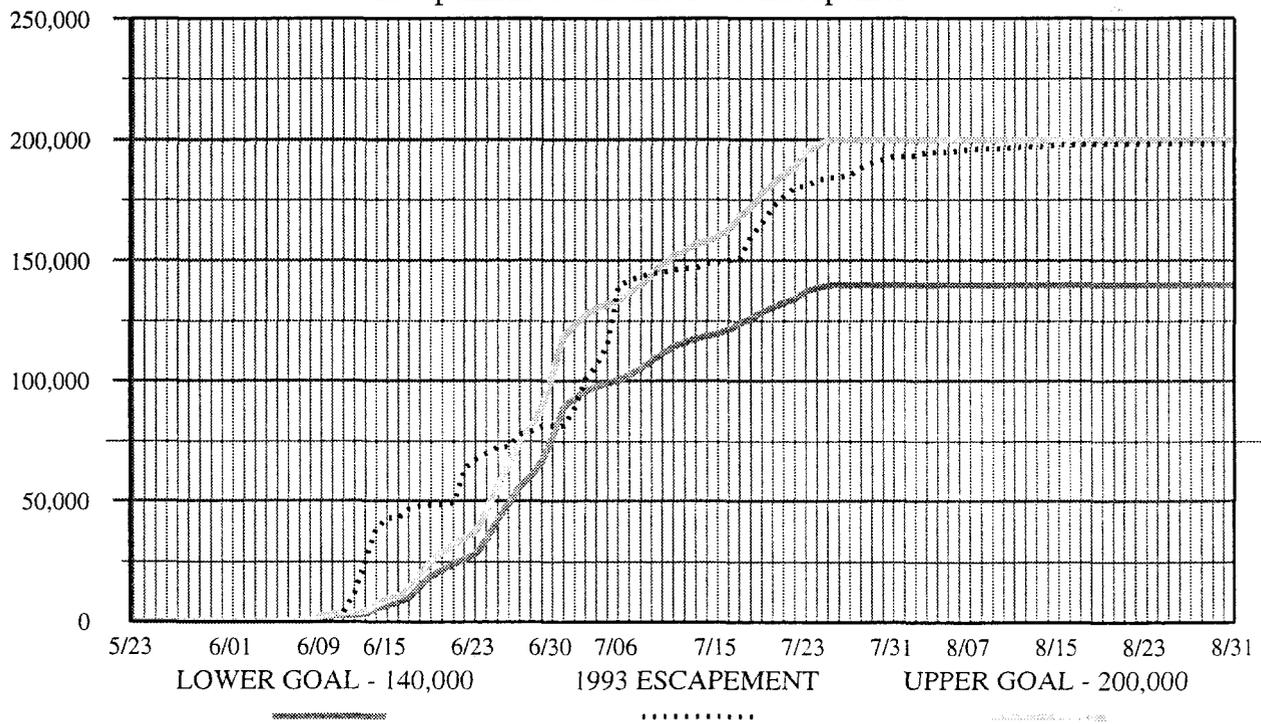
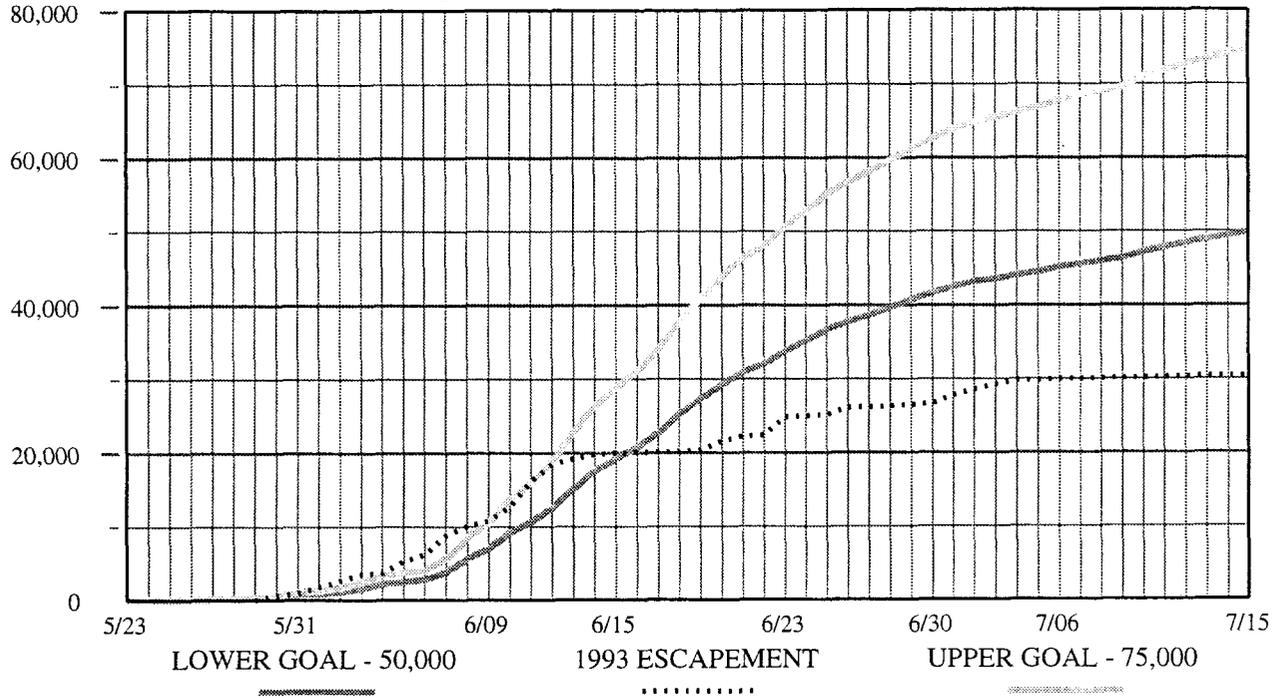


Figure 19. Sockeye salmon escapement goals vs actual escapements for the Ayakulik and Frazer (Dog Salmon) Lake systems of the Kodiak Management Area, 1993.

UPPER STATION SOCKEYE SALMON, EARLY RUN
Escapement Goals and 1993 Escapement



UPPER STATION SOCKEYE SALMON, LATE RUN
Escapement Goals and 1993 Escapement

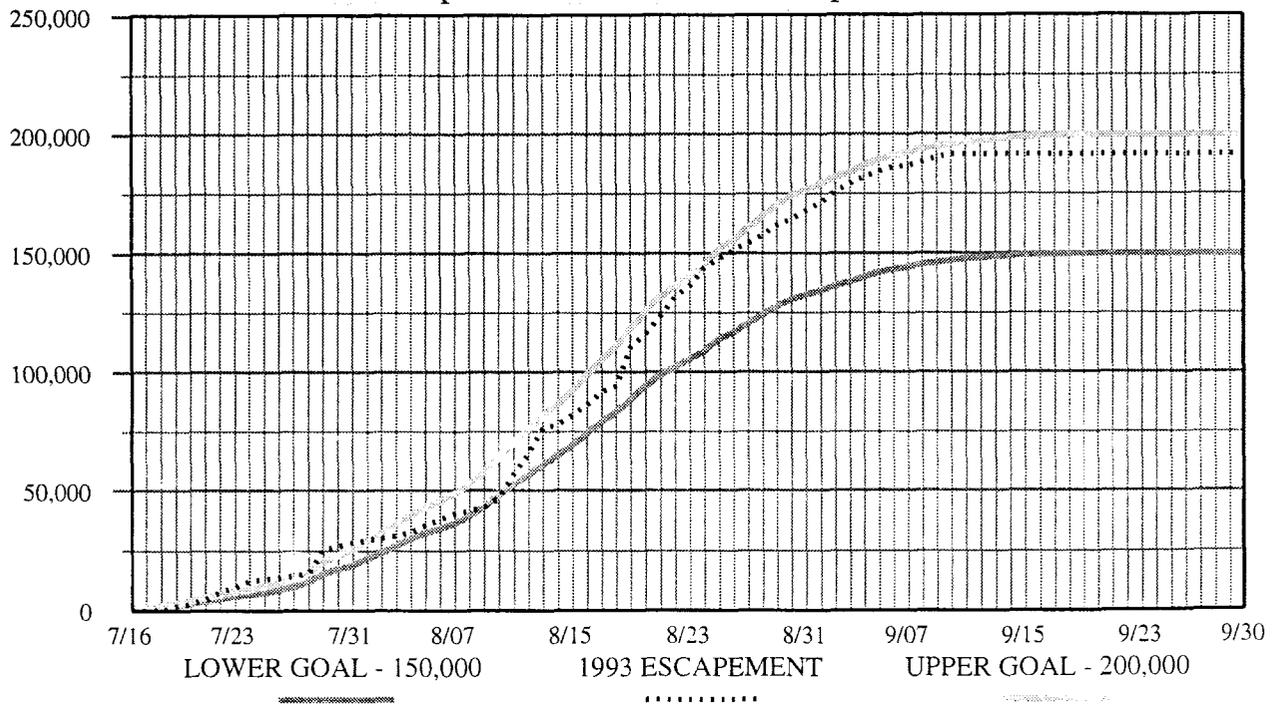
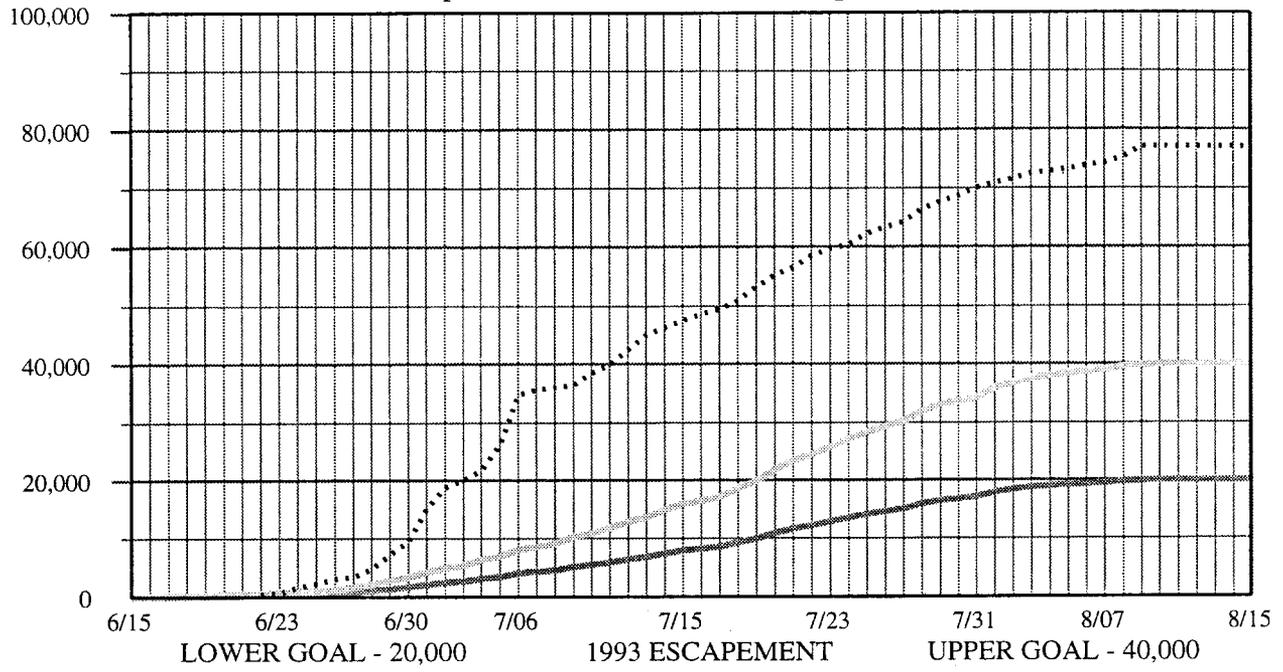


Figure 20. Sockeye salmon escapement goals vs actual escapements for the Olga Lake system (Upper Station) of the Kodiak Management Area, 1993.

SALTERY SOCKEYE SALMON
Escapement Goals and 1993 Escapement



LITNIK SOCKEYE SALMON
Escapement Goals and 1993 Escapement

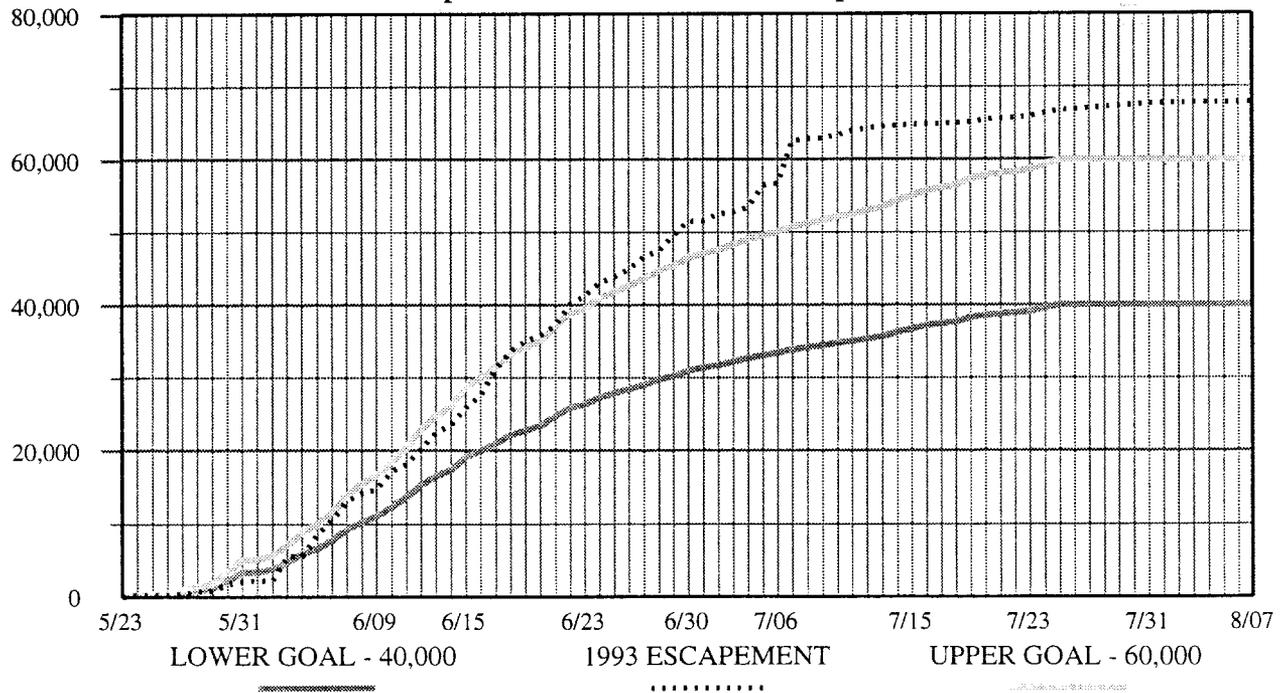
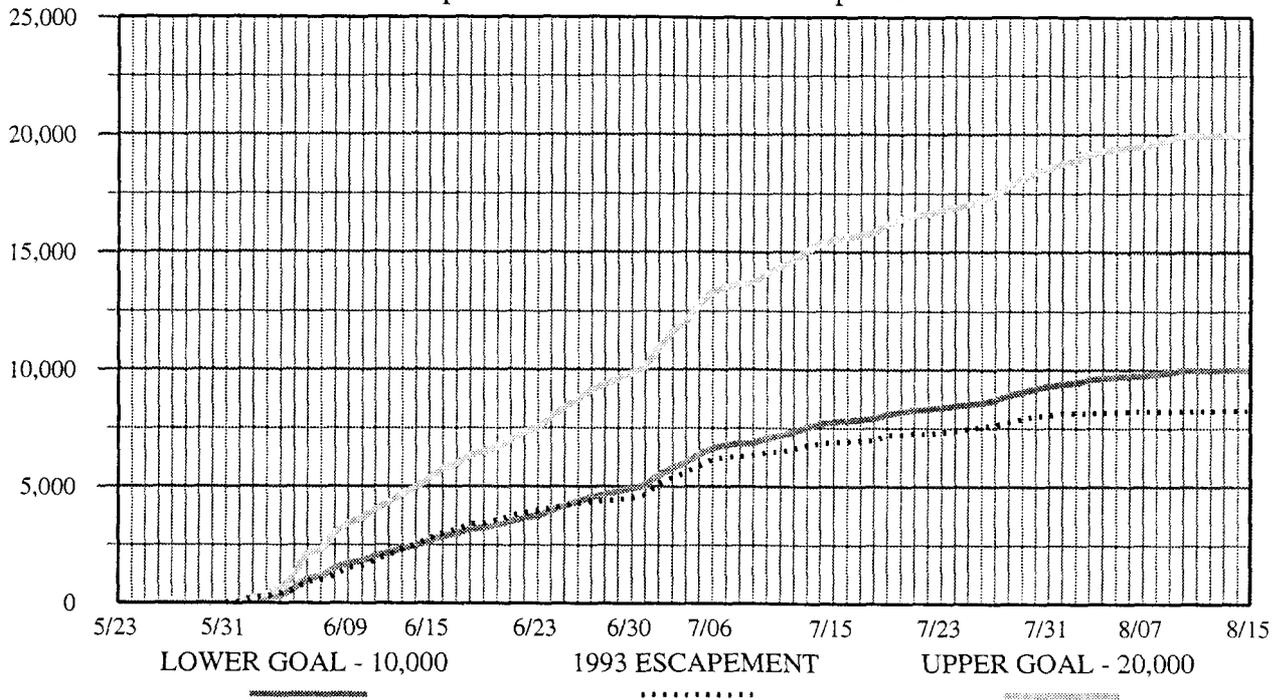


Figure 21. Sockeye salmon escapement goals vs actual escapements for the Saltery and Afognak (Litnik) Lake systems of the Kodiak Management Area, 1993.

MALINA SOCKEYE SALMON
Escapement Goals and 1993 Escapement



BUSKIN SOCKEYE SALMON
Escapement Goals and 1993 Escapement

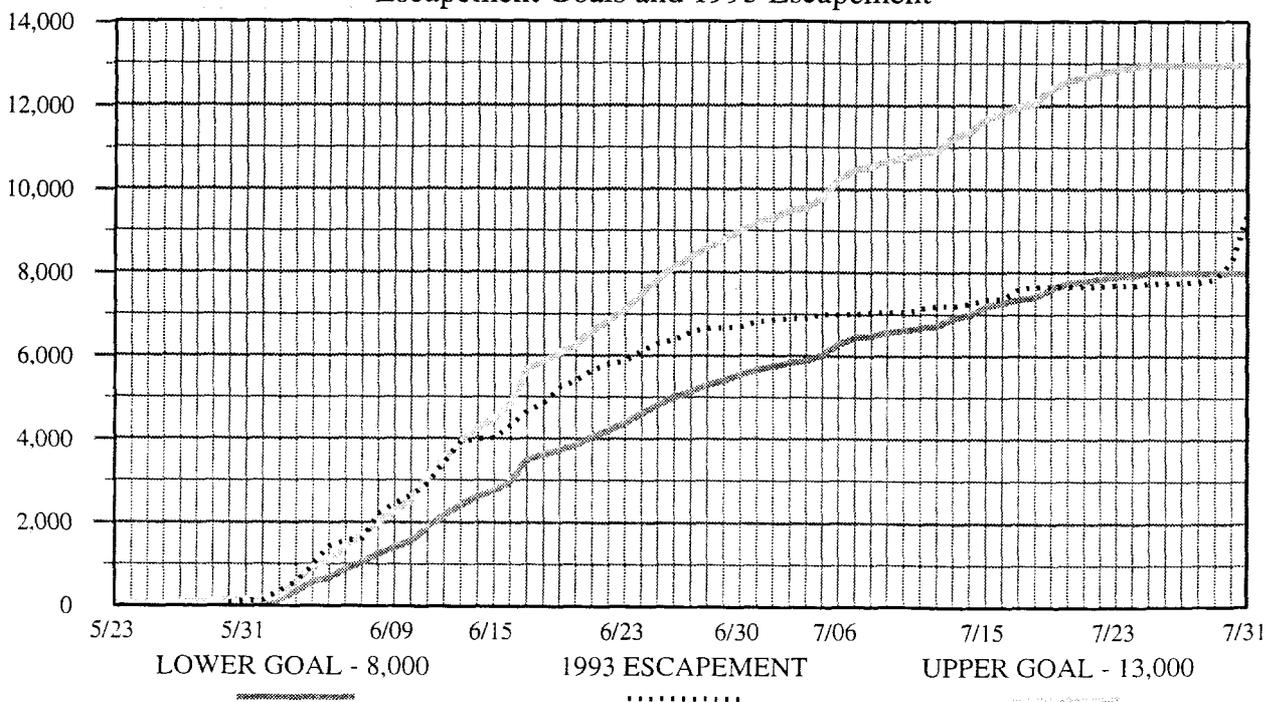
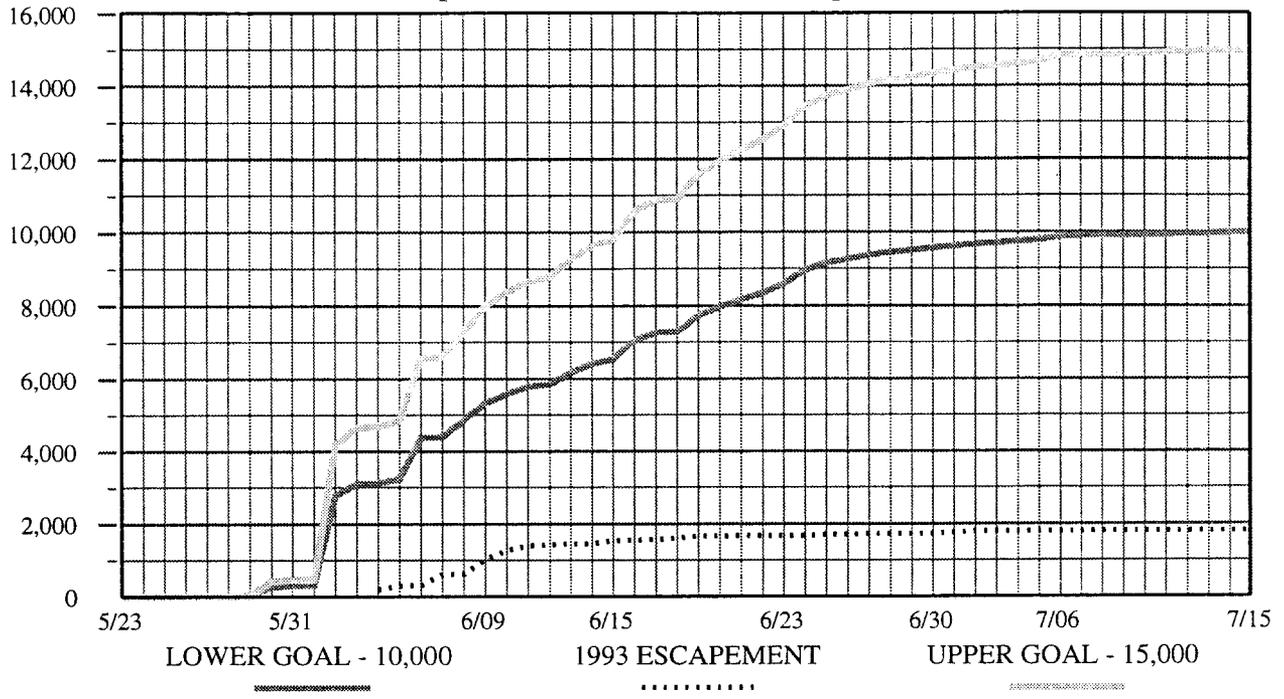


Figure 22. Sockeye salmon escapement goals vs actual escapements for the Malina and Buskin Lake systems of the Kodiak Management Area, 1993.

AKALURA SOCKEYE SALMON, EARLY RUN
Escapement Goals and 1993 Escapement



AKALURA SOCKEYE SALMON, LATE RUN
Escapement Goals and 1993 Escapement

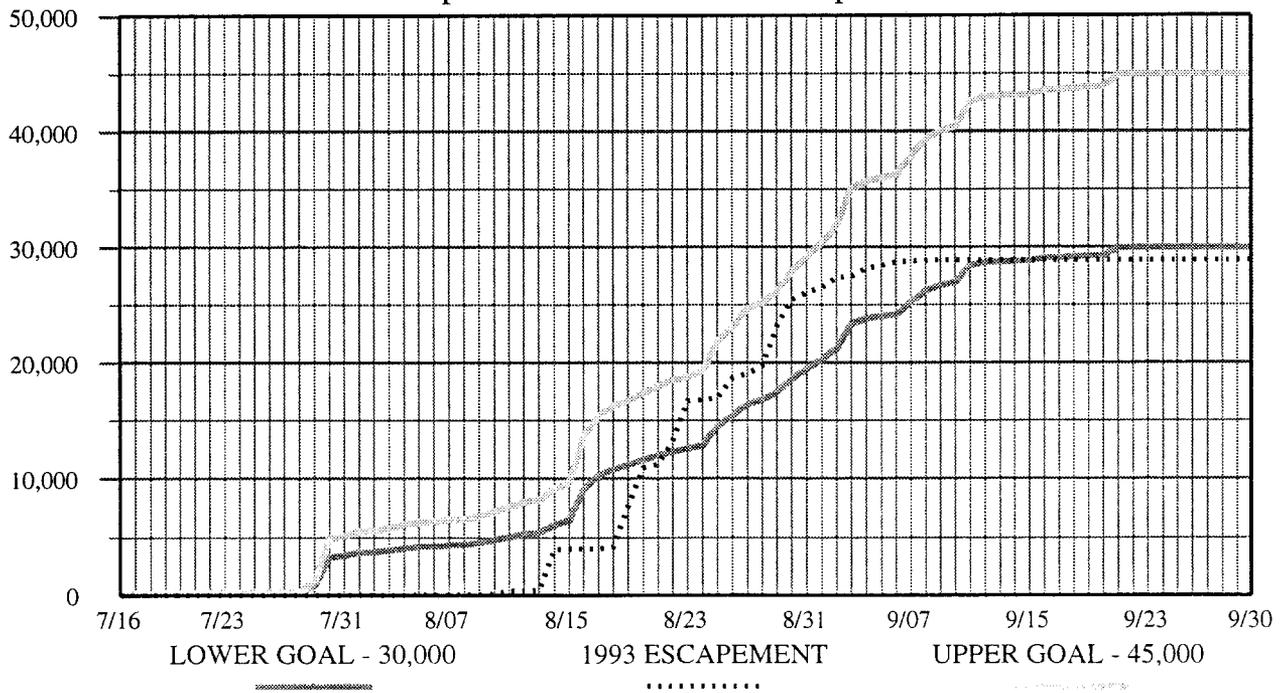
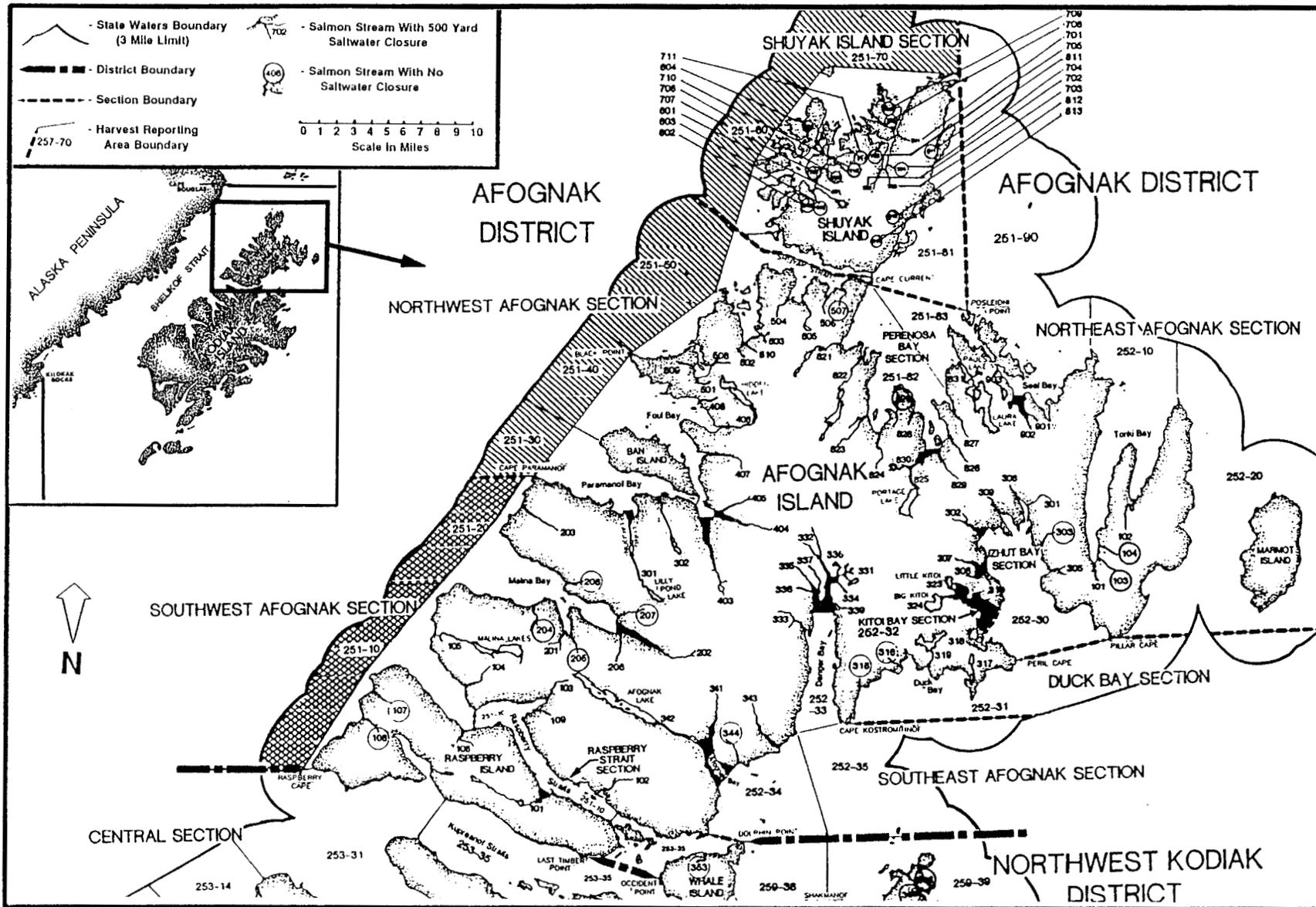


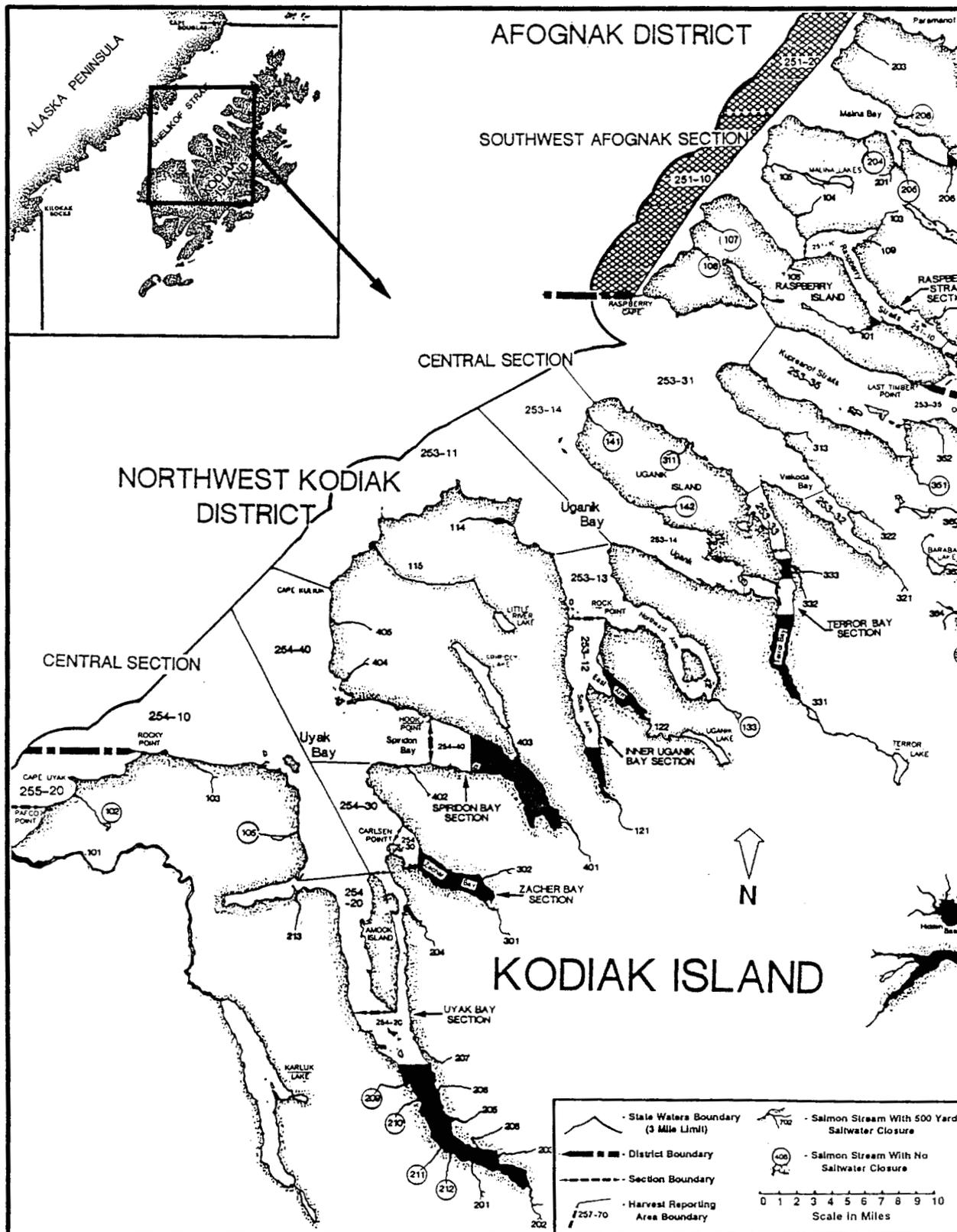
Figure 23. Sockeye salmon escapement goals vs actual escapements for the Akalura Lake system of the Kodiak Management Area, 1993.

APPENDIX A

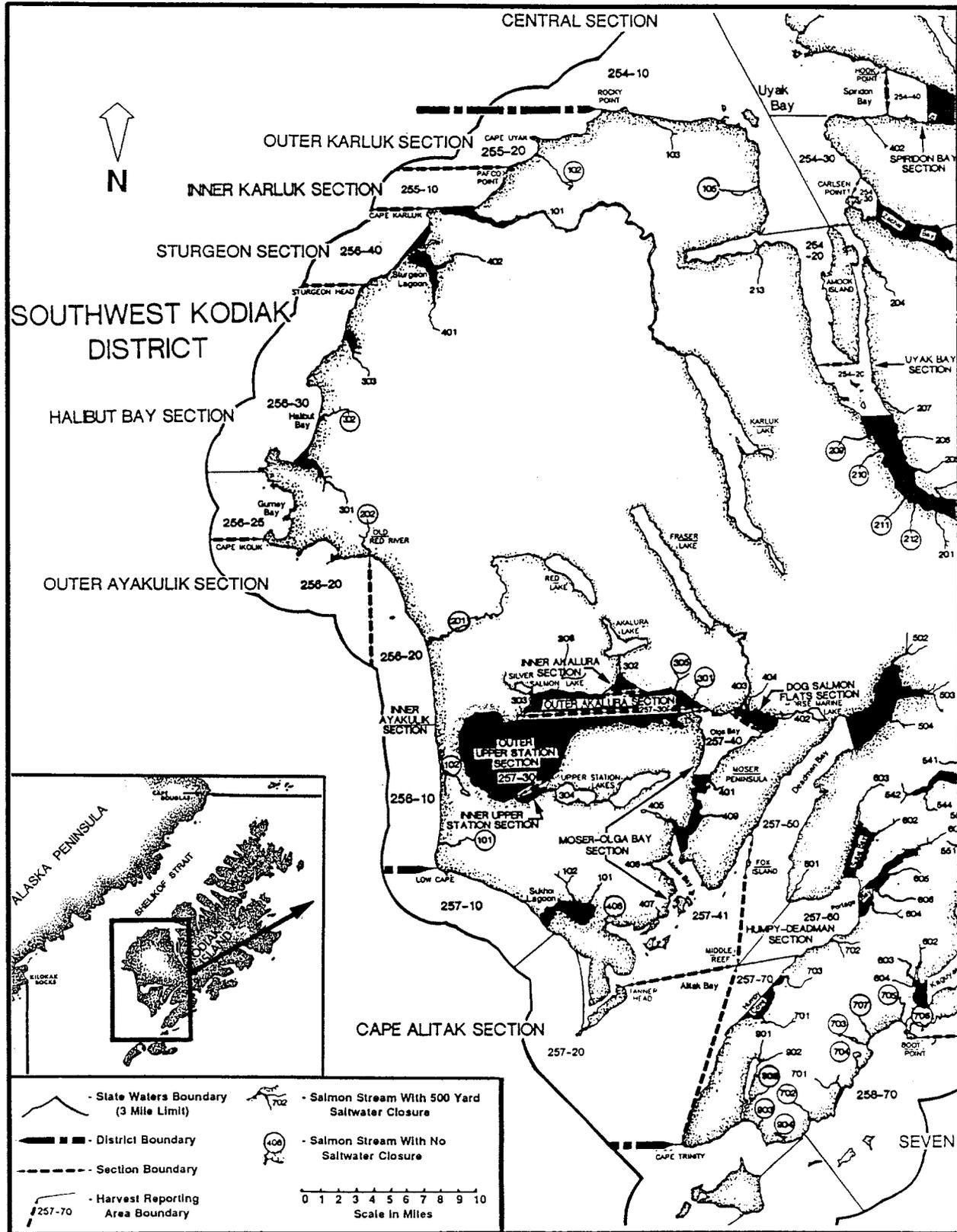
District and Section Maps



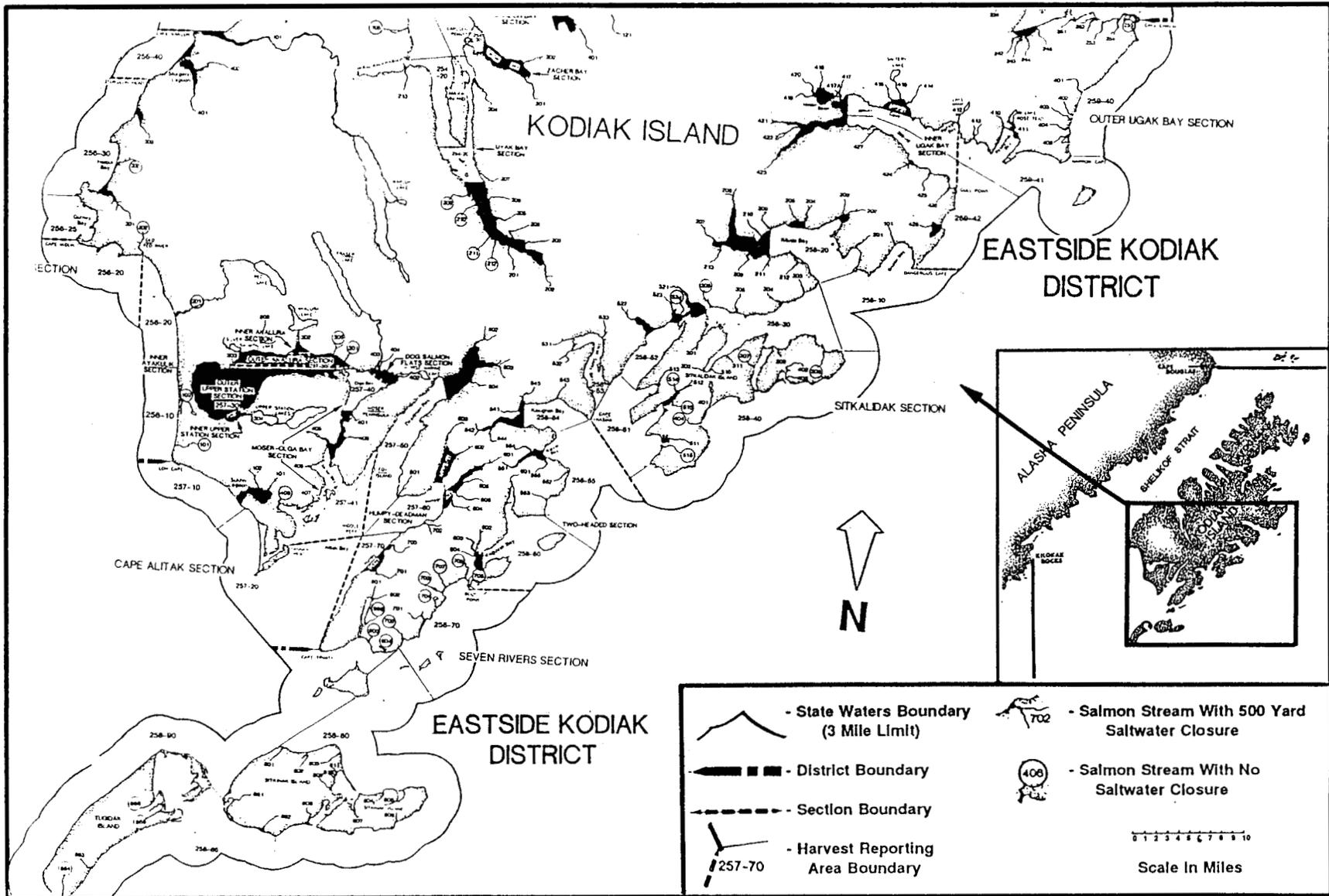
Appendix A.2. Afognak District of the Kodiak Management Area, 1993.



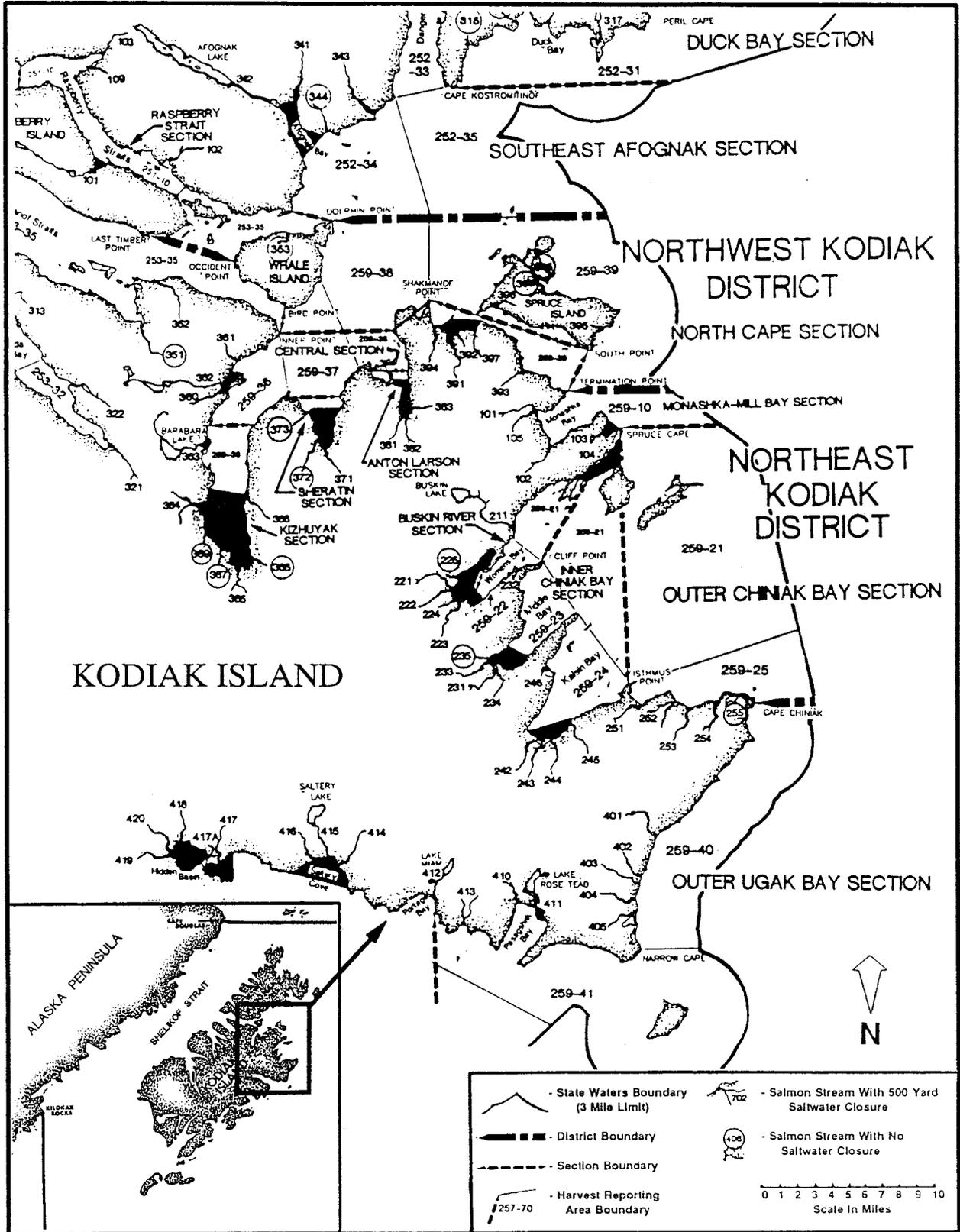
Appendix A.3. Northwest Kodiak District of the Kodiak Management Area, 1993.



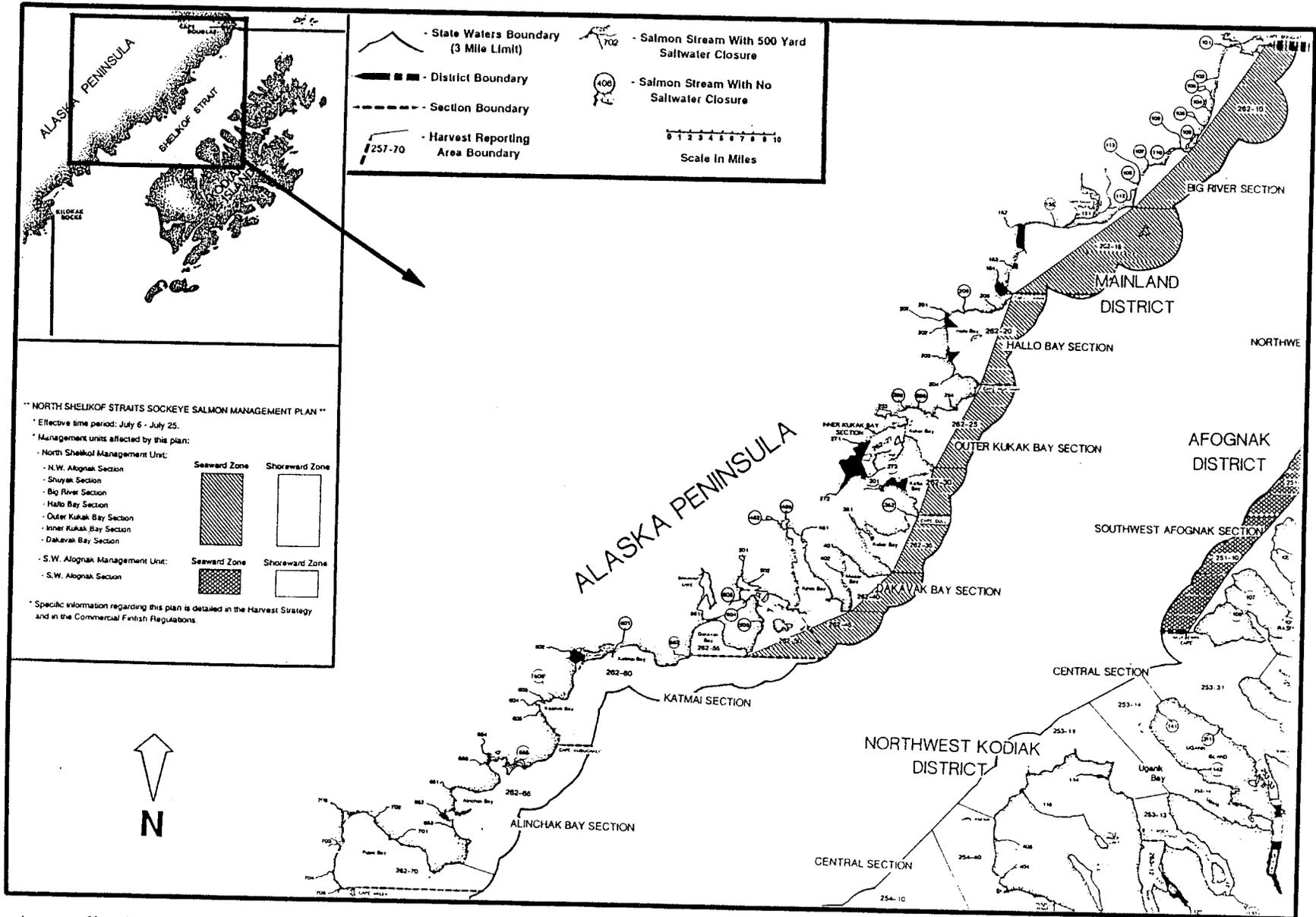
Appendix A.4. Southwest Kodiak and Alitak Bay Districts of the Kodiak Management Area, 1993.



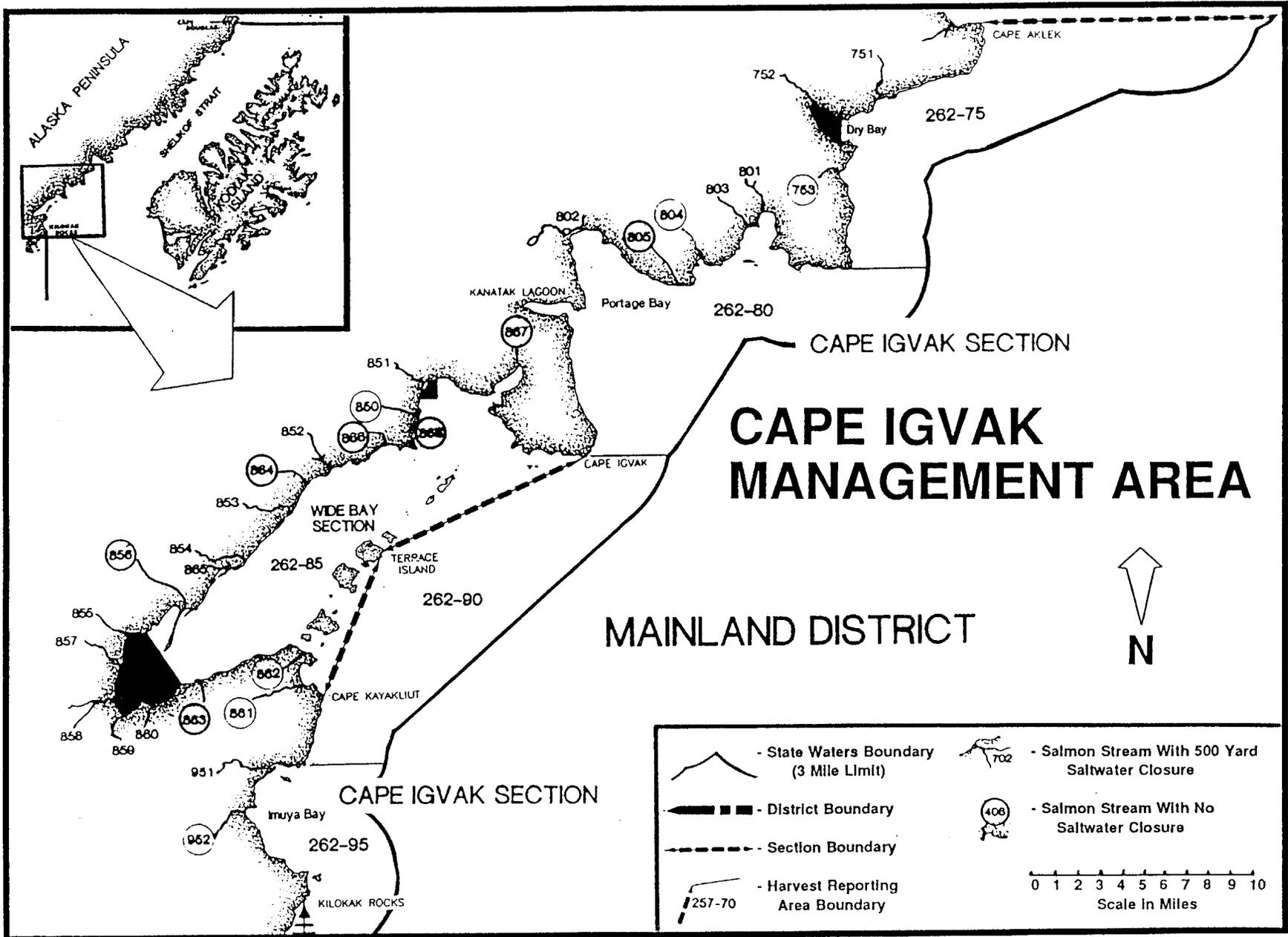
Appendix A.5. Eastside Kodiak District of the Kodiak Management Area, 1993.



Appendix A.6. Northeast Kodiak District, and the North Cape and eastern Central Sections of the Northwest Kodiak District, of the Kodiak Management Area, 1993.



Appendix A.7. North portion of the Mainland District of the Kodiak Management Area, 1993.



Appendix A.8. Cape Igvak management units in the Mainland District of the Kodiak Management Area, 1993.

APPENDIX B

Salmon Escapement Goals

Appendix B.1. Sockeye salmon escapement goals by spawning system for the Kodiak Management Area^a, 1993.

Name	System Number	Escapement (in 1,000's of fish) ^a		
		Minimum	Mid Pt.	Targeted
Weirs				
Karluk	255-101	560	730	900
Ayakulik	256-201	200	250	300
Upper Station	257-304	200	238	275
Frazer	257-401	140	170	200
Litnik	252-342	40	50	60
Saltery	259-415	20	30	40
Pauls	251-831	20	30	40
Buskin	259-211	10	13	15
Akalura	257-302	40	50	60
Uganik Lake	253-122	40	50	60
Subtotal		1,270	1,611	1,950
Non weir (indexed escapement)^b				
Barabara Cove	259-363	1	3	5
Bear Lake	262-655	1	3	5
Big Bay	251-601	1	3	5
Horse Marine	257-402	5	8	10
Kafliia	262-301	15	20	25
Kaguyak	258-706	0.5	1	1
Kanatak	262-802	1	3	5
Kuliak	262-351	1	3	5
Little Afognak	252-319	1	3	5
Little Danger	252-331	1	1	1
Little Kitoi	252-323	1	1	1
Little River	253-116	15	20	25
Long Lagoon Cr.	251-301	1	3	5
Malina	251-105	5	8	10
Matfay	257-704	0.5	1	1
Miam	259-412	1	3	5
Ocean Beach	258-401	5	8	10
Old Red River	258-202	0.5	1	1
Paramonof	251-301	1	1	1
Pasagshak	259-411	1	3	5
Perenosa	251-825	5	8	10
Pivot Point	258-212	0.5	1	1
Red Fox	251-505	1	1	1
Russian Harbor	258-901	1	1	1
Selief	251-101	1	3	5
Silver Salmon	257-303	1	3	5

-Continued-

Appendix B.1. (page 2 of 2)

Name	System Number	Escapement (in 1,000's of fish) ^a		
		Minimum	Mid Pt.	Targeted
Swikshak	262-151	15	20	25
Slough Crk.	262-105	0.5	1	1
Thorsheim	251-302	5	8	10
Total indexed escapement ^b		88.5	143	190.0
Estimated total escapement for indexed systems^c		177	286	380
Estimated total escapement for systems with weirs and indexed by aerial surveys		1,447	1,754	2,140

^a Source: Barrett et al. (1990) and Malloy et al. (1992).

^b Indexed escapement represents a peak aerial escapement count.

^c Indexed escapement expanded by a factor of 2.0 for an estimate of total escapement (Barrett et al. 1985).

Appendix B.2. Pink salmon odd and even year index stream escapement goals for the Kodiak Management Area, 1993.

Index Stream	Stream Number	Even Year Indexed Goal ^{a,b}		Odd Year Indexed Goal ^{a,b}	
		Minimum	Targeted	Minimum	Targeted
AFOGNAK DISTRICT					
Malina	(251-105)	20,000	60,000	5,000	15,000
Paramanof	(251-404)	10,000	30,000	5,000	15,000
Little Waterfall ^c	(251-822)	15,000	45,000	15,000	45,000
Discoverer	(251-830)	20,000	60,000	20,000	60,000
Pauls Bay ^c	(251-831)	3,000	9,000	3,000	9,000
Seal Bay	(251-901)	5,000	15,000	5,000	15,000
Big Danger	(252-332)	15,000	45,000	10,000	30,000
Marka	(252-334)	30,000	90,000	10,000	30,000
Litnik ^c	(252-342)	30,000	90,000	10,000	30,000
	Subtotal	148,000	444,000	83,000	249,000
N.W. KODIAK DISTRICT					
Sheratin	(253-371)	15,000	45,000	10,000	30,000
Baumans	(253-333)	5,000	15,000	5,000	15,000
Terror	(253-331)	40,000	120,000	30,000	90,000
Uganik	(253-122)	80,000	240,000	70,000	210,000
Little	(253-115)	40,000	120,000	15,000	45,000
Zachar	(254-301)	40,000	120,000	20,000	60,000
Browns	(254-204)	40,000	120,000	5,000	15,000
Uyak	(254-202)	50,000	150,000	50,000	150,000
Uyak	(259-203)	5,000	15,000	15,000	45,000
	Subtotal	315,000	945,000	220,000	660,000
S.W. KODIAK DISTRICT					
Karluk ^c	(255-101)	800,000	1,600,000	20,000	60,000
Sturgeon	(256-401)	50,000	150,000	5,000	15,000
Ayakulik ^c	(256-201)	400,000	800,000	5,000	15,000
	Subtotal	1,250,000	2,550,000	30,000	90,000
ALITAK DISTRICT					
Narrows	(257-401)	2,000	6,000	2,000	6,000
Dog Salmon ^c	(257-403)	50,000	150,000	60,000	180,000
Deadman	(257-502)	40,000	120,000	60,000	180,000
Humpy	(257-701)	70,000	210,000	90,000	270,000
	Subtotal	162,000	486,000	212,000	636,000
N.E. KODIAK DISTRICT					
Sid Olds	(259-242)	30,000	90,000	30,000	90,000
American	(259-231)	30,000	90,000	30,000	90,000
Buskin ^c	(259-211)	60,000	180,000	50,000	150,000
	Subtotal	120,000	360,000	110,000	330,000
EASTSIDE KODIAK DISTRICT					
7-Rivers	(258-701)	40,000	120,000	40,000	120,000
Kaiugnak	(258-542)	10,000	30,000	10,000	30,000
Barling	(258-522)	30,000	90,000	30,000	90,000
Kiliuda	(258-207)	20,000	60,000	10,000	30,000
Saltery ^c	(259-415)	20,000	60,000	30,000	90,000
Miam	(259-412)	20,000	60,000	10,000	30,000
Hurst	(259-414)	10,000	30,000	10,000	30,000
	Subtotal	150,000	450,000	140,000	420,000
MAINLAND KODIAK DISTRICT					
Big River	(262-152)	10,000	30,000	10,000	30,000
Village	(262-153)	15,000	45,000	15,000	45,000
Cape Chiniak	(262-205)	5,000	15,000	3,000	9,000
Big Hallo	(262-203)	2,000	6,000	2,000	6,000
Kukak	(262-271)	3,000	9,000	2,000	6,000
Missak	(262-402)	5,000	15,000	3,000	9,000
Kinak	(262-451)	20,000	60,000	20,000	60,000

-Continued-

Index Stream	Stream Number	Even Year Indexed Goal ^{a,b}		Odd Year Indexed Goal ^{a,b}	
		Minimum	Targeted	Minimum	Targeted
MAINLAND KODIAK DISTRICT (continued)					
Geographic	(262-501)	4,000	12,000	4,000	12,000
Dakavak	(262-551)	25,000	75,000	20,000	60,000
Kashvik	(262-604)	25,000	75,000	25,000	75,000
Big Alinchak	(262-651)	30,000	90,000	20,000	60,000
Portage	(262-702)	15,000	45,000	10,000	30,000
Oil	(262-751)	15,000	45,000	10,000	30,000
Jute	(262-801)	2,000	6,000	1,000	3,000
Kanatak	(262-802)	10,000	30,000	10,000	30,000
Big Creek	(262-851)	70,000	210,000	60,000	180,000
	Subtotal	256,000	768,000	215,000	645,000
GRAND TOTAL ^d		2,401,000	6,003,000	1,010,000	3,030,000

^a Source: Barrett et al. (1990) and Malloy et al. (1992).

^b Index escapement for non weir systems are peak counts.

^c Systems where the escapement is counted through weirs.

^d The 51 listed index streams average 73% of the total KMA escapement based on 1969-87 escapement distribution data from 1966 through 1991.

Appendix B.3. Chum salmon indexed escapement goals and estimated total escapement goals for selected streams, 1993.

Index Stream	Stream Number	Indexed Escapement*		Estimated Total Escapement*		
		Minimum	Targeted	Minimum	Targeted	Mid Point
NORTHWEST KODIAK DISTRICT						
Red Cloud	(259-382)	3,000	9,000	4,173	12,518	8,345
Slough Trail	(259-383)	1,000	3,000	1,391	4,173	2,782
Sheratin	(259-371)	5,000	15,000	6,954	20,863	13,908
Kizhuyak	(259-365)	8,000	24,000	11,127	33,380	22,253
Terror	(253-331)	5,000	15,000	6,954	20,863	13,908
Uganik	(253-122)	10,000	30,000	13,908	41,725	27,817
Spiridon	(254-401)	15,000	45,000	20,863	62,588	41,725
Zachar	(254-301)	15,000	45,000	20,863	62,588	41,725
Uyak	(254-202)	10,000	30,000	13,908	41,725	27,817
Subtotal		72,000	216,000	100,140	300,421	200,281
SOUTHWEST KODIAK DISTRICT						
Sturgeon	(256-401)	50,000	150,000	69,542	208,626	139,084
Subtotal		50,000	150,000	69,542	208,626	139,084
ALITAK DISTRICT						
Big Sukhoi	(257-102)	20,000	60,000	27,817	83,450	55,633
Dog Salmon ^b	(257-403)	2,000	6,000	2,000	6,000	4,000
Narrows	(257-401)	2,000	6,000	2,782	8,345	5,563
Deadman	(257-502)	5,000	15,000	6,954	20,863	13,908
Sulua	(257-603)	8,000	24,000	11,127	33,380	22,253
Portage	(257-601)	1,000	3,000	1,391	4,173	2,782
Subtotal		38,000	114,000	52,070	156,210	104,140
NORTHEAST KODIAK DISTRICT						
Kalsin River	(259-243)	1,000	3,000	1,391	4,173	2,782
Sid Olds	(259-242)	6,000	18,000	8,345	25,035	16,690
American	(259-231)	6,000	18,000	8,345	25,035	16,690
Salt Creek	(259-233)	2,000	6,000	2,782	8,345	5,563
Salonie Creek	(259-223)	1,000	3,000	1,391	4,173	2,782
Russian River	(259-222)	2,000	6,000	2,782	8,345	5,563
Sargent Creek	(259-221)	2,000	6,000	2,782	8,345	5,563
Subtotal		20,000	60,000	27,817	83,450	55,633
EASTSIDE KODIAK DISTRICT						
Sitkinak Chum	(258-807)	3,000	9,000	4,173	12,518	8,345
Kaguyak	(258-602)	5,000	15,000	6,954	20,863	13,908
Kiavak Portage	(258-551)	1,000	3,000	1,391	4,173	2,782
Kaiugnak	(258-603)	3,000	9,000	4,173	12,518	8,345
Barling	(258-522)	3,000	9,000	4,173	12,518	8,345
Midway	(258-521)	5,000	15,000	6,954	20,863	13,908
Newman	(258-513)	3,000	9,000	4,173	12,518	8,345
Natalia	(258-512)	3,000	9,000	4,173	12,518	8,345
Rolling	(258-511)	4,000	12,000	5,563	16,690	11,127
Amee	(258-301)	1,000	3,000	1,391	4,173	2,782
McCord Beach	(258-302)	1,000	3,000	1,391	4,173	2,782
Pivot Point	(258-212)	1,000	3,000	1,391	4,173	2,782
Marker Grove	(258-211)	1,000	3,000	1,391	4,173	2,782
Dukaluk	(258-208)	2,000	6,000	2,782	8,345	5,563
W. Kiliuda	(258-207)	8,000	24,000	11,127	33,380	22,253
E. Kiliuda	(258-206)	3,000	9,000	4,173	12,518	8,345
Burn's Spit	(258-210)	1,000	3,000	1,391	4,173	2,782
Coxcomb Point	(258-205)	6,000	18,000	8,345	25,035	16,690
Dog Bay	(258-204)	6,000	18,000	8,345	25,035	16,690
Shearwater	(258-202)	1,000	3,000	1,391	4,173	2,782
Gull Cape	(259-428)	8,000	24,000	11,127	33,380	22,253
Eagle Harbor	(259-424)	4,000	12,000	5,563	16,690	11,127
Kiliuda Pass	(259-423)	2,000	6,000	2,782	8,345	5,563
Hidden Basin	(259-418)	4,000	12,000	5,563	16,690	11,127

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Appendix B.3. (page 2 of 2)

Index Stream	Stream Number	Indexed		Est. Total		Mid Point
		Minimum	Desired	Minimum	Desired	
Wild Creek	(259-417)	2,000	6,000	2,782	8,345	5,563
Rough Creek	(259-416)	3,000	9,000	4,173	12,518	8,345
Saltery ^b	(259-415)	2,000	6,000	2,000	6,000	4,000
Miam	(259-412)	2,000	6,000	2,782	8,345	5,563
Subtotal		88,000	264,000	121,612	364,836	243,224
MAINLAND DISTRICT						
Productive Forks	(262-108)	1,000	3,000	1,391	4,173	2,782
Swikshak	(262-151)	2,000	6,000	2,782	8,345	5,563
Big River	(262-152)	40,000	120,000	55,633	166,900	111,267
Village Creek	(262-153)	10,000	30,000	13,908	41,725	27,817
Chiniak Lagoon	(262-154)	8,000	24,000	11,127	33,380	22,253
Ninagiak	(262-201)	5,000	15,000	6,954	20,863	13,908
Serpent	(262-203)	10,000	30,000	13,908	41,725	27,817
Cape Chiniak	(262-205)	1,000	3,000	1,391	4,173	2,782
Kukak River	(262-271)	60,000	180,000	83,450	250,351	166,900
Kukak Valley	(262-272)	3,000	9,000	4,173	12,518	8,345
Kinak Creek	(262-451)	2,000	6,000	2,782	8,345	5,563
Dakavak	(262-551)	10,000	30,000	13,908	41,725	27,817
Alagogshak	(262-602)	25,000	75,000	34,771	104,313	69,542
Kashvik	(262-604)	5,000	15,000	6,954	20,863	13,908
Big Alinchak	(262-651)	2,000	6,000	2,782	8,345	5,563
Little Alinchak	(262-652)	1,000	3,000	1,391	4,173	2,782
East Bear	(262-654)	8,000	24,000	11,127	33,380	22,253
West Bear	(262-656)	3,000	9,000	4,173	12,518	8,345
Portage	(262-702)	1,000	3,000	1,391	4,173	2,782
Teresa	(262-703)	8,000	24,000	11,127	33,380	22,253
Trail Creek	(262-704)	8,000	24,000	11,127	33,380	22,253
Dry Bay	(262-752)	8,000	24,000	11,127	33,380	22,253
Jute	(262-801)	1,000	3,000	1,391	4,173	2,782
Kanatak	(262-802)	1,000	3,000	1,391	4,173	2,782
Big Creek	(262-851)	10,000	30,000	13,908	41,725	27,817
Kialagvik	(262-858)	8,000	24,000	11,127	33,380	22,253
Icy Peak	(262-859)	1,000	3,000	1,391	4,173	2,782
Subtotal		242,000	726,000	336,583	1,009,748	673,165
GRAND TOTAL		510,000	1,530,000	707,764	2,123,291	1,415,528
Estimated Total Kodiak Management Area Escapement ^c				784,440	2,353,321	1,568,881

^a Source: Barrett et al. (1990) and Malloy et al. (1992)

^b Systems where the escapement is counted through weirs.

^c The 78 listed index streams supported 90.2% of the total KMA chum escapement in 1989. The estimated total KMA escapement goal minimum, desired, and mid point values were determined from this relationship.

Appendix B.4. Coho salmon escapement goals for fish weir systems in the Kodiak Management Area, 1993.

Weir Site	Interim Goals ^a	Interim Dates															
		8/15		8/20		8/25		8/31		9/5		9/10		9/15		9/20	
		Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)	Weir	(Bldup)
Karluk (255-101)	Min.	-	-	50	-	100	(1,400)	300	(2,200)	1,500	(3,500)	3,000	(7,000)	8,000	(5,000)	10,000	(5,000)
	Des.	-	-	500	-	1,000	(2,000)	3,000	(4,000)	3,000	(6,000)	6,000	(9,000)	9,000	(8,000)	20,000	(5,000)
Ayakulik (256-201)	Min.	500	(1,000)	3,000	(2,000)	4,000	(3,500)	7,000	(5,000)	10,000	(7,000)	12,000	(6,000)	-	(6,000)	-	(2,000)
	Des.	2,000	(1,500)	6,000	(2,500)	7,000	(5,000)	13,000	(6,000)	15,000	(8,000)	18,000	(9,000)	-	(8,000)	-	(4,000)
Dog Salmon (257-403)	Min.	-	(100)	50	-	500	-	1,500	-	2,000	-	2,500	-	3,500	-	-	(1,000)
	Des.	-	(200)	200	-	1,500	-	3,000	-	4,500	-	4,500	-	5,500	-	-	(3,000)
Upper Station (257-304)	Min.	-	-	50	-	500	-	1,500	-	2,000	-	2,500	-	3,500	-	-	-
	Des.	-	-	200	-	1,500	-	3,500	-	4,000	-	4,500	-	5,500	-	-	-
Akalura (257-302)	Min.	-	-	-	-	50	-	250	-	500	-	1,000	-	1,500	-	-	-
	Des.	-	-	-	-	200	-	1,000	-	1,500	-	2,500	-	3,500	-	-	-
Horse Marine (257-402)	Min.	-	-	-	-	50	-	200	-	400	-	800	-	1,000	-	-	-
	Des.	-	-	-	-	100	-	400	-	800	-	1,600	-	2,500	-	-	-
Saltery (259-415)	Min.	-	-	-	(100)	50	(500)	300	(1,000)	1,000	(1,000)	2,000	(1,000)	2,500	(2,000)	3,000	(2,000)
	Des.	-	-	-	(500)	100	(1,000)	1,000	(2,000)	2,000	(2,000)	3,000	(2,000)	4,000	(3,000)	5,000	(5,000)
Boskin (259-211)	Min.	25	-	100	-	300	-	400	-	1,000	-	2,000	-	2,000	-	3,000	(3,000) ^b
	Des.	100	-	300	-	500	-	1,000	-	2,000	-	3,500	-	4,000	-	5,000	(4,000)
Nitnik (252-342)	Min.	500	-	1,000	-	1,500	-	2,000	-	2,500	-	3,000	-	3,500	-	-	-
	Des.	2,000	-	3,000	-	4,000	-	5,000	-	6,000	-	7,000	-	8,000	-	-	-
Loris (251-831)	Min.	500	-	1,500	-	3,000	-	3,500	-	4,500	-	5,500	-	6,500	-	-	-
	Des.	2,000	-	3,000	-	5,000	-	6,000	-	7,000	-	8,000	-	9,000	-	-	-
Perenosa (251-830)	Min.	50	-	500	-	1,000	-	1,300	-	1,500	-	1,700	-	2,000	-	-	-
	Des.	500	-	1,000	-	3,000	-	2,800	-	3,000	-	3,200	-	3,500	-	-	-
Big Bay (251-601)	Min.	20	-	100	-	150	-	200	-	250	-	300	-	400	(600)	600	(400)
	Des.	100	(200)	200	(300)	300	(300)	400	(400)	500	(600)	600	(1,000)	800	(1,200)	1,300	(700)
Bear Creek (251-700)	Min.	10	-	50	-	100	-	125	-	150	-	175	-	150	-	350	-
	Des.	50	(50)	150	(100)	200	(150)	250	(200)	300	(400)	350	(600)	500	(500)	700	(400)

^a Galloy et al. (1992)

^b Includes 2,000 coho for sport fish harvest.

Appendix B.5. Peak indexed coho salmon escapement goals for Northeast District nonweired systems in the Kodiak Management Area, 1993.

Geographical Location	Stream		Escapement Goals ^{a,b}	
	Name	Number	Minimum	Desired
Monashka/Mill Bay	Monashka	(259-101)	20	35
	Virginia	(259-105)	30	45
	Pillar	(259-102)	30	45
	Island Lake	(259-103)	40	60
Subtotal	4 Streams		120	180
Woman's Bay^c	Buskin	(259-211)	2,000 ^d	4,210 ^d
	Sargent	(259-221)	65	100
	Russian	(259-222)	40	60
	Paramanof	(259-224)	20	30
	Salonie	(259-223)	350	500
	Cliff Point	(259-232)	10	20
Subtotal	6 Streams		2,485	4,210
Middle Bay	Short	(259-235)	10	20
	Salt	(259-233)	20	30
	American	(259-231)	300	400
	Slough	(259-234)	100	200
Subtotal	4 Streams		430	650
Kalsin Bay	Mayflower	(259-246)	30	45
	Sid Olds	(259-242)	450	675
	Kalsin	(259-243)	100	150
	Frank	(259-244)	10	20
	Myrtle	(259-245)	30	45
Subtotal	5 Streams		620	935
Outer Chiniak Bay	Rosalyn	(259-251)	600	1,200
	Twin	(259-252)	40	60
	Capelin	(259-253)	20	30
	Chiniak	(259-254)	100	150
	Chiniak Lagoon	(259-255)	10	20
Subtotal	5 Streams		770	1,460

-Continued-

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Geographical Location	Stream		Escapement Goals ^{a,b}	
	Name	Number	Minimum	Targeted
Coastal Chiniak	Sacramento	(259-401)	40	60
	Twin Peaks	(259-402)	10	20
	Valley	(259-403)	10	20
	Barry's	(259-405)	10	20
	Burton's	(259-404)	10	20
Subtotal	5 Streams		70	120
GRAND TOTAL	29 Streams		4,475	7,555

^a Total indexed escapement as of October and November aerial and foot surveys.

^b Source: Malloy et al. (1992). These escapement goals were developed by Kodiak Area fishery biologists, Frank VanHulle and Pete Murray with the Sport Fish Division, and Ken Manthey, Larry Malloy and Dave Prokopowich with the Commercial Fisheries Division. The basis for these goals is the annual escapement and subsequent return data derived from approximately 1970 through 1988.

^c Includes the Buskin River actual total escapement obtained by fish weir count.

^d Buskin River actual weir escapement as of 9/10, an important date for management of the freshwater sport fisheries in Buskin River.

Appendix B.6. Chinook salmon escapement goals, by week, for systems with fish weirs, Kodiak Management Area, 1993.

River	Interim Goals ^a	Interim Dates							
		5/30	6/06	6/13	6/20	6/27	7/04	7/11	7/18
Karluk (255-101)	Minimum	100	500	1,500	2,500	3,000	3,500	4,000	4,500
	Desired	300	800	2,800	4,500	6,000	7,000	7,500	8,000
Ayakulik (256-201)	Minimum	500	1,000	3,500	4,500	5,000	5,500	6,000	6,500
	Desired	1,500	3,000	5,000	6,000	7,000	8,000	9,000	10,000
Dog Salmon (257-403)	Minimum	-	-	-	20	40	80	100	110
	Desired	-	-	-	60	120	240	300	330

^a Escapement goals shown in this table are based upon historical escapement database for 10 year period 1980-1989 and the subsequent return from those escapements. As additional research is conducted on the nature of these chinook salmon populations as well as the carrying capacity/production potential for chinook salmon in these systems, adjustments in these goals may be recommended.

APPENDIX C

**Kodiak Area Commercial Salmon
Fishing Regulations**

KODIAK AREA

CHAPTER 18. - KODIAK AREA

ARTICLE 1. - DESCRIPTION OF AREA

5 AAC 18.001. APPLICATION OF THIS CHAPTER. Requirements set forth in this chapter apply to commercial fishing only, unless otherwise specified. Subsistence fishing regulations affecting commercial fishing vessels or affecting any other commercial fishing activity are set forth in the subsistence fishing regulations in chs. 1 and 2 of this title.

6 AAC 18.100. DESCRIPTION OF AREA. The Kodiak Area includes all waters of Alaska south of a line extending east from Cape Douglas (58°52' N. lat.), west of 150° W. long., north of 55°30' N. lat.; and east of a line extending south from the southern entrance of Imuya Bay near Kilokak Rocks (156°20'13" W. long.).

ARTICLE 2. - FISHING DISTRICTS

5 AAC 18.200. DESCRIPTION OF DISTRICTS AND SECTIONS. (a) Afognak District: all waters of Afognak and Shuyak Islands bounded by a line from Occident Point (57°57'25" N. lat., 152°51'30" W. long.), to Last Timber Point (57°58'50" N. lat., 152°58'55" W. long.), by the latitude of Dolphin Point on Whale Island (57°59'10" N. lat.), by the latitude of Raspberry Cape (58°03'35" N. lat.), by mid-stream Shelikof Straits, and by the latitude of Cape Douglas (58°52' N. lat.);

(1) Raspberry Straits Section: all waters of Raspberry Straits bounded by the longitude of Dolphin Point on Afognak Island (153°09' W. long.) and by a line from Head Point to Dolphin Point on Whale Island and a line from Occident Point to Last Timber Point;

(2) Southwest Afognak Section: all waters west of Afognak Island bounded by the latitude of Raspberry Cape, the longitude of Dolphin Point on Afognak Island (153°09' W. long.) in Raspberry Straits, by the latitude of Cape Paramanof (58°18'20" N. lat.), and by mid-stream Shelikof Strait;

(3) Northwest Afognak Section: all waters northwest of Afognak Island bounded by the latitude of Cape Paramanof, by a line extending along mid-stream Shuyak Straits and perpendicular to mid-stream Shelikof Strait to Cape Current (58°27'40" N. lat., 159°29'10" W. long.), and by mid-stream Shelikof Strait;

(4) Shuyak Island Section: all waters in the vicinity of Shuyak Island bounded by a line extending along mid-stream Shuyak Straits and perpendicular to mid-stream Shelikof Straits to Cape Current, north of a line from Cape Current to Posliedni Point (58°26' N. lat., 152°19'30" W. long.), west of the longitude of Posliedni Point, south of the latitude of Cape Douglas, and by mid-stream Shelikof Strait;

(5) Perenosa Bay Section: all waters of Perenosa Bay south of a line extending from Cape Current to Posliedni Point;

(6) Northeast Afognak Section: all waters northeast of Afognak Island bounded by the longitude of Posliedni Point and by the latitude of Pillar Cape (58°09' N. lat.);

(7) Izhut Bay Section: all waters of Izhut Bay, excluding the Kitoi Bay Section, bounded by a line from Pillar Cape to Peril Cape (58°07'30" N. lat., 152°16'20" W. long.);

(8) Kitoi Bay Section: all waters of Kitoi Bay bounded by a line from 58°10'39" N. lat., 152°17'13" W. long. to 58°09'32" N. lat., 152°18'36" W. long.;

(9) Duck Bay Section: all waters of Duck Bay bounded by the latitude of Pillar Cape, by a line from Pillar Cape to Peril Cape, and by the latitude of Cape Kostromitinof (58°05'05" N. lat.).

(10) Southeast Afognak Section: all waters of Kazakof Bay (Danger Bay) and Afognak Bay bounded by the latitude of Cape Kostromitinof, a line from Head Point on Afognak Island to Dolphin Point on Whale Island, and the latitude of Dolphin Point.

(b) Northwest Kodiak District: all waters of north and west Kodiak Island bounded by the latitude of Termination Point (57°51'15" N. lat.), by the latitude of Dolphin Point on Whale Island (57°59'10" N. lat.), by a line from Occident Point (57°57'25" N. lat., 152°51'30" W. long.) to Last Timber Point (57°58'50" N. lat., 152°58'55" W. long.), by the latitude of Raspberry Cape (58°03'35" N. lat.), by the latitude of Rocky Point (57°39'45" N. lat.), and by mid-stream Shelikof Strait;

(1) Anton Larsen Bay Section: all waters of Anton Larsen Bay south of 57°52'18" N. lat.;

(2) Sheratin Bay Section: all waters of Sheratin Bay south of 57°51'09" N. lat.;

(3) Kizhuyak Bay Section: all waters of Kizhuyak Bay south of 57°50' N. lat.;

(4) Terror Bay Section: all waters of Terror Bay and Uganik Bay passages south of 57°50' N. lat., and east of 153°12'36" W. long.;

(5) Inner Uganik Bay Section: all waters of the South and East Arms of Uganik Bay south of the latitude of Rock Point at 57°46'30" N. lat., 153°29'12" W. long., to 57°46'20" N. lat., 153°33'48" W. long.;

(6) Spiridon Bay Section: all waters of Spiridon Bay east of 153°46'20" W. long.;

(7) Zachar Bay Section: all waters of Zachar Bay east of a line from Carlsen Point at 57°34'48" N. lat., 153°50' W. long., to a point on the opposite shore at 57°35'42" N. lat., 153°49'12" W. long.;

(8) Uyak Bay Section: all waters of Inner Uyak Bay south of the latitude of the southernmost tip of Amook Island (57°25'45" N. lat., 153°49'51" W. long.) to the west shore, and south of the latitude of the northernmost tip of Amook Island (56°59'44" N. lat., 154°01'42" W. long.) to the east shore;

(9) Central Section: all waters of the Northwest Kodiak District bounded by a line from Termination Point (57°51'15" N. lat., 152°24' W. long.), to South Point (57°53'10" N. lat., 152°22' W. long.), to Ouzinkie Point (57°54'50" N. lat., 152°31'09" W. long.), to Shakmanof Point (57°55'30" N. lat., 152°35'15" W. long.), to a point at 57°54'12" N. lat. on the east shore of Kizhuyak Bay; north of 57°52'18" N. lat. in Anton Larsen Bay; north of 57°51'09" N. lat. in Sheratin Bay; north of 57°50' N. lat., and south of the latitude of Inner Point (57°54'06" N. lat.) in Kizhuyak Bay; west of a line from Inner Point (57°54'06" N. lat., 152°47'40" W. long.) to Bird Point (57°55'20" N. lat., 152°47'25" W. long.); south of a line from Occident Point (57°57'25" N. lat., 152°51'30" W. long.) to Last Timber Point (57°58'50" N. lat., 152°58'55" W. long.); south of the latitude of Raspberry Cape (58°03'35" N. lat.); north of 57°50' N. lat., and west of 153°12'36" W. long. in Terror Bay and Uganik Bay passages; north of a line from Rock Point (57°46'30" N. lat., 153°29'12" W. long., to 57°46'20" N. lat., 153°33'48" W. long.) in the South and East Arms of Uganik Bay; west of the longitude of Hook Point (153°46'20" W. long.) in Spiridon Bay; west of a line from Carlsen Point (57°34'48" N. lat., 153°50' W. long.) to 57°35'42" N. lat., 153°49'12" W. long. in Zachar Bay; all waters of Inner Uyak Bay north of the latitude of the southernmost tip of Amook Island to the west shore, and north of the latitude of the northernmost tip of Amook Island to the east shore; north of the latitude of Rocky Point (57°39'45" N. lat.); and by mid-stream Shelikof Strait;

(10) North Cape Section: all other waters of the Northwest Kodiak District.

(c) Southwest Kodiak District: all waters southwest of Kodiak Island bounded by the latitudes of Rocky Point (57°39'45" N. lat.) and Low Cape (56°59'35" N. lat.), and by mid-stream Shelikof Strait;

(1) Outer Karluk Section: all waters west of Kodiak Island bounded by the latitude of Rocky Point, the latitude of Pafco Point (56°36'52" N. lat.), and by mid-stream Shelikof Strait;

(2) Inner Karluk Section: all waters west of Kodiak Island bounded by the latitude of Pafco Point, the latitude of Cape Karluk (57°34'42" N. lat., 154°30'54" W. long.), and by mid-stream Shelikof Strait;

(3) Sturgeon Section: all waters southwest of Kodiak Island bounded by the latitude of Cape Karluk, the latitude of Sturgeon Head (57°30'40" N. lat., 154°37'20" W. long.), and by mid-stream Shelikof Strait;

(4) Halibut Bay Section: all waters southwest of Kodiak Island bounded by the latitude of Sturgeon Head, the latitude of Cape Ikolik (57°17'26" N. lat., 154°47'20" W. long.) and by mid-stream Shelikof Strait;

(5) Outer Ayakulik Section: all waters southwest of Kodiak Island bounded by the latitude of Cape Ikolik, the longitude of Old Red River (stream No. 256-202) (154°37'12" W. long.), and by mid-stream Shelikof Strait;

(6) Inner Ayakulik Section: all waters southwest of Kodiak Island bounded by the longitude of Old Red River (stream No. 256-202) (154°37'12" W. long.) and the latitude of Low Cape (56°59'35" N. lat.).

(d) Alitak Bay District: all waters south of Kodiak Island bounded by the latitude of Low Cape, the latitude of Cape Trinity (56°44'50" N. lat.), and by mid-stream Shelikof Strait;

(1) Cape Alitak Section: all waters bounded by the latitude of Low Cape, the latitude of Cape Trinity, by mid-stream Shelikof Strait, by a line from Cape Trinity (56°44'50" N. lat., 154°08'45" W. long.) to Middle Reef (56°54' N. lat., 154°03' W. long.), and by a line from Middle Reef to Tanner Head at 56°53'14" N. lat., 154°13'38" W. long.;

(2) Humpy-Deadman Section: all waters of Alitak Bay east of a line from Cape Trinity, to Middle Reef, to the southernmost tip of Fox Island (56°59'09" N. lat., 154°01'58" W. long.), and from the northernmost tip of Fox Island (56°59'44" N. lat., 154°01'42" W. long.), to 57°01'09" N. lat., 154°00'51" W. long., to the Moser Peninsula at 57°01'10" N. lat., 154°01' W. long.;

(3) Moser-Olga Bay Section: all waters of Moser and Olga Bays bounded by a line from Tanner Head (56°53'14" N. lat., 154°13'38" W. long.), to Middle Reef (56°54' N. lat., 154°03' W. long.), to the southernmost tip of Fox Island (56°59'09" N. lat., 154°01'58" W. long.), and from the northernmost tip of Fox Island (56°59'44" N. lat., 154°01'42" W. long.), to 57°01'09" N. lat., 154°00'51" W. long., to the Moser Peninsula at 57°01'10" N. lat., 154°01' W. long., and by a line from Stockholm Point (57°07'40" N. lat., 154°06'36" W. long.) to the opposite shore at 57°07'40" N. lat., 154°04'50" W. long., excluding the Dog Salmon Flats Section;

(4) Dog Salmon Flats Section: all waters of Lower Olga Bay northeast of a line from 57°06'27" N. lat., 154° W. long. to the opposite shore at 57°07'33" N. lat., 154°03' W. long.;

(5) Outer Upper Station Section: all waters of Upper Olga Bay south of a line from 57°07'40" N. lat., 154°23'06" W. long., to 57°07'49" N. lat., 154°06'36" W. long., to Stockholm Point, excluding the Inner Upper Station Section;

(6) Inner Upper Station Section: all waters of Upper Olga Bay south of a line from 57°03'27" N. lat., 154°23'27" W. long. to 57°04'12" N. lat., 154°20'33" W. long.;

(7) Outer Akalura Section: all waters of Upper Olga Bay north of a line from 57°07'40" N. lat., 154°23'06" W. long., to 57°07'49" N. lat., 154°06'36" W. long., to Stockholm Point, excluding the Inner Akalura Section.

(8) Inner Akalura Section: all waters of Upper Olga Bay north of a line from 57°08'40" N. lat., 154°15'18" W. long. to 57°18'45" N. lat., 154°10'54" W. long.

(e) Eastside Kodiak District: all waters south and east of Kodiak Island bounded by the latitude of Cape Trinity (56°44'50" N. lat.), by the latitude of Cape Chiniak (57°37' N. lat.), and by mid-stream Shelikof Strait;

(1) Seven Rivers Section: all waters east of Kodiak Island bounded by the latitude of Cape Trinity, by the latitude of Boot Point (56°50' N. lat.) and a line extending seaward 144° from Cape Kasiak (57°04' N. lat., 153°29'38" W. long.), and by mid-stream Shelikof Strait;

(2) Two-Headed Section: all waters east of Kodiak Island bounded by the latitude of Boot Point and by a line extending seaward 144° from Cape Kasiak;

(3) Sitkalidak Section: all waters east of Kodiak Island bounded by a line extending seaward 144° from Cape Kasiak and by the latitude of Dangerous Cape (57°16'36" N. lat.);

(4) Inner Ugak Bay Section: all waters of Ugak Bay west of the longitude of Gull Point (152°06' W. long.);

(5) Outer Ugak Bay Section: all waters of Kodiak Island bound by the longitude of Gull Point, the latitude of Dangerous Cape, and the latitude of Cape Chiniak (57°37' N. lat.).

(f) Northeast Kodiak District: all waters northeast of Kodiak Island bounded by the latitude of Cape Chiniak (57°37' N. lat.), and the latitude of Termination Point (57°51'15" N. lat.);

(1) Outer Chiniak Bay Section: all waters north of Kodiak Island bounded by the latitude of Cape Chiniak and the longitude of Isthmus Point (152°19'30" W. long.);

(2) Inner Chiniak Bay Section: all waters of Chiniak Bay bounded by the longitude of Isthmus Point and the latitude of Spruce Cape (57°49'36" N. lat.), excluding the Buskin River Section;

(3) Buskin River Section: all waters of Chiniak Bay west of a line from Cliff Point (57°43'30" N. lat., 152°26'45" W. long.) to Spruce Cape (57°49'36" N. lat., 152°19'24" W. long.);

(4) Monashka/Mill Bay Section: all waters north of Kodiak bounded by the latitude of Spruce Cape and the latitude of Termination Point.

(g) Mainland District: all waters along the southside of the Alaska Peninsula bounded by the latitude of Cape Douglas (58°52' N. lat.), mid-stream Shelikof Strait, and west of the longitude of the southern entrance of Imuya Bay near Kilokak Rocks (57°11'22" N. lat., 156°20'13" W. long.);

(1) Big River Section: all waters bounded by the latitude of Cape Douglas, the latitude Cape Chiniak on the mainland (58°31' N. lat.), and by mid-stream Shelikof Strait;

(2) Hallo Bay Section: all waters of Hallo Bay bounded by the latitude of Cape Chiniak on the mainland, the latitude of Cape Nukshak (58°23'30" N. lat.), and by mid-stream Shelikof Strait;

(3) Outer Kukak Bay Section: all waters bounded by the latitude of Cape Nukshak and the latitude of Cape Gull (58°13' N. lat.), excluding the Inner Kukak Section;

(4) Inner Kukak Bay Section: all waters of Kukak Bay west of 154°11' W. long.;

(5) Dakavak Bay Section: all waters bounded by the latitude of Cape Gull, the latitude of the southern entrance of Dakavak Bay (58°01' N. lat.), and by mid-stream Shelikof Strait;

(6) Katmai Section: all waters bounded by the latitude of the southern entrance of Dakavak Bay, the latitude of Cape Kubugakli (57°53'30" N. lat.), and by mid-stream Shelikof Strait;

(7) Alinchak Section: all waters bounded by the latitude of Cape Kubugakli, the latitude of Cape Aklek (57°41'24" N. lat.), and by mid-stream Shelikof Strait;

(8) Cape Igvak Section: all waters bounded by the latitude of Cape Aklek (57°41'24" N. lat.), the longitude of the southern entrance of Imuya Bay near Kilokak Rocks (156°20'13" W. long.), and by mid-stream Shelikof Strait, excluding the Wide Bay Section;

(9) Wide Bay Section: all waters of Wide Bay enclosed by a line from Cape Kayakliut (57°17'35" N. lat., 156°19' W. long.) to the easternmost tip of Terrace Island at 156°15' N. lat., to Cape Igvak (57°26' N. lat., 156°01' W. long.).

5 AAC 18.201. SEAWARD BOUNDARY OF DISTRICTS IN KODIAK AREA. In the Kodiak Area, salmon fishing is prohibited outside the territorial sea of Alaska. The territorial sea boundary for the Kodiak Area is shown on National Oceanic and Atmospheric Administration nautical chart number 16580 (8th Ed., October 31, 1981).

ARTICLE 3. - SALMON FISHERY

5 AAC 18.310. FISHING SEASONS.(a) Salmon may be taken only from June 5 through October 31.

5 AAC 18.320. FISHING PERIODS.(a) Salmon may be taken only during periods established by emergency order.

(d) In the Spiridon Bay Special Harvest Area, salmon may be taken only during periods established by emergency order. Fishing periods will not exceed six hours per day and will occur only during daylight hours.

5 AAC 18.330. GEAR.(a) In the Afognak District salmon may be taken only by purse seines and beach seines.

(b) In the Northwest Kodiak District salmon may be taken only by purse seines and beach seines, except that in the Central Section, salmon may also be taken by set gillnets.

(c) In the Southwest Kodiak District salmon may be taken only by purse seines and beach seines.

(d) In the Alitak District salmon may be taken only by purse seines and beach seines, except that

(1) in the Moser-Olga Bay Section salmon may be taken only by set gillnets;

(2) in the Dog Salmon Flats Section salmon may be taken only by set gillnets;

(3) in the Outer Upper Station Section salmon may be taken only by set gillnets;

(4) in the Inner Upper Station Section salmon may be taken only by set gillnets;

(5) in the Outer Akalura Section salmon may be taken only by set gillnets;

(6) in the Inner Akalura Section salmon may be taken only by set gillnets;

(7) after September 4, salmon may be taken by purse seines and beach seines in the entire Alitak District.

(e) In the East Kodiak District salmon may be taken only by purse seines and beach seines.

(f) In the Northeast Kodiak District salmon may be taken only by purse seines and beach seines.

(g) In the Mainland District salmon may be taken only by purse seines and beach seines.

5 AAC 18.331. GILLNET SPECIFICATIONS AND OPERATIONS.(a) Except as provided for in (e) of this section. A CFEC permit holder may operate no more than 150 fathoms of set gillnet in the aggregate, nor more than two set gillnets.

(b) Seine webbing may be used on the shoreward end of a set gillnet and the length of the seine webbing used may extend no more than 50 fathoms seaward of the beach at the lowest tide of the current day, except that

(1) in the Moser-Olga Bay, Inner Dog Salmon, Inner Akalura, Outer Akalura, Outer Upper Station, and Inner Upper Station sections of the Alitak District, seine webbing may be used only from the high tide mark seaward, and no portion of the seine web may be in water deeper than five feet at the lowest tide of the current day;

(2) in that portion of the Moser-Olga Bay Section of the Alitak District south of a line from Bun Point to the opposite shore at 56°57'59" N. lat., 154°07'35" W. long., seine webbing may be used only from the high tide mark seaward, and must meet one of the following requirements:

(A) no portion of the seine web may be in the water deeper than five feet at the lowest tide of the current day; or

(B) the length of seine webbing used may be no more than 20 fathoms per set.

(c) Set gillnets must be operated in substantially a straight line, except that no more than 25 fathoms of a set gillnet may be used as a hook. A hook may be used in any configuration.

(d) The shoreward end of a set gillnet must be attached to a point of land which is exposed at the lowest tide of the day or to a rock that is within 5 feet of the surface at the lowest tide of the day. A rock is any naturally located or created geological formation that shows no evidence of having been located or created through man-made means. A set gillnet may not be attached to the beach inside of closed waters.

(e) Two salmon set gillnet CFEC permit holders may form a joint venture and combine their gear under the following conditions:

(1) a permit must be obtained from a local representative of the department before a joint venture may start operations;

(2) only one permit per year will be issued for each joint venture;

(3) the permit must be signed by both CFEC permit holders and each must have a copy of the permit readily available for inspection;

(4) the permit may be canceled by the department upon the request of one of the joint venture operators;

(5) the gear and site markers required by 5 AAC 39.280 must bear the five-digit CFEC permit serial number of both permit holders;

(6) no single set gillnet may be more than 150 fathoms in length;

(7) no joint venture may operate more than three set gillnets; and

(8) both parties of the joint venture are legally responsible for the operation of all gear of the joint venture.

(f) No set gillnet gear, including running lines, shore leads, anchors, and buoys, may be placed in the water, nor may signs required by 5 AAC 18 or 5 AAC 39 be placed on the beach before emergency order openings of the closed waters areas of Upper Olga Bay described in 5 AAC 18.350(a)(1)(B)(i).

(g) No gillnet may be more than 125 meshes in depth.

(h) In the Alitak Bay District, the shoreward end of a set gillnet must not begin further seaward, or in water deeper than the limit specified for seine webbing in (b) of this section.

5 AAC 18.332. SEINE SPECIFICATIONS AND OPERATION.(a) No purse seine and hand purse seine may be less than 100 fathoms or more than 200 fathoms in length. No seine may be less than 100 meshes in depth. At least 50 fathoms of a seine must be 150 meshes in depth.

(b) One lead no more than 100 fathoms in length may be used with each purse seine or hand purse seine. The aggregate length of a seine and lead may not exceed 250 fathoms. Leads must be removed from the water within two hours after a season or fishing period closure. Each lead must have at each end a buoy, cork, or float plainly and legibly marked with the operator's five-digit CFEC permit serial number.

(c) Beach seines no less than 100 fathoms nor more than 225 fathoms in length may be used.

(d) Beach seines may not be less than 100 meshes in depth.

(e) When an anchor is used during the operation of a purse seine, hand purse seine, or beach seine, only the shoreward end of the seine or lead may be anchored; the seine shall be attached to the licensed vessel, and the vessel may not be anchored, except that, in the operation of a beach seine, an additional anchor, used to anchor the vessel to the beach, may be used only while retrieving the beach seine.

(f) In the Mainland District, it is unlawful to take salmon with the assistance of an aircraft directing the operation of the seine gear.

(g) Seine mesh size may not be more than seven inches.

(h) A ring, strap, purse, or tow line may be attached only to the cork line of a beach seine. Hydraulic power may be used to set or retrieve a beach seine. A beach seine must be set from, and hauled to, a beach, or to a vessel anchored to a beach. One end of a beach seine must remain on a beach above the water surface at all times during the set.

(i) A beach seine has ceased fishing when all of the leadline is out of the water.

(j) Overlapping panels of net web may not be used in seine leads.

5 AAC 18.335. MINIMUM DISTANCE BETWEEN UNITS OF GEAR. No part of a set gillnet may be set or operated within 900 feet of any part of another set gillnet, or be attached to the beach within 900 feet of another net, except that in the Dog Salmon Flats, Outer Upper Station, Inner Upper Station, Outer Akalura, and Inner Akalura sections there is not minimum distance between units of set gillnet gear.

5 AAC 18.337. PURSE SEINE PRACTICE SETS. (a) From June 1 through June 7, purse seine vessels may make practice purse seine sets. The sets may be made only during daylight hours. All fish caught shall be returned to the water without further harm.

(b) Purse seine practice sets may be made only in the following locations:

(1) inside Lazy Bay west of 154° 13' 30" W. long.;

(2) inside Larson Bay west of 153° 59' W. long.;

(3) Kodiak within one-half mile of the Sealand dock; and

(4) Old Harbor within one-half mile of the entrance to the boat harbor.

5 AAC 18.350. CLOSED WATERS. (a) Salmon may not be taken in the following waters:

(1) Alitak District.

(A) Humpy Cove: all waters east of a line from the northern entrance of Seaborg Cove at 56°53'45" N.lat., 153°58'48" W.long., to a point approximately two and three-quarters miles northeast of Hawk Point at 56°51' N.lat., 154°03'39" W.long.;

(B) Olga Bay.

(i) Upper Olga Bay: north and west of a line from Stockholm Point at 57°07'40" N.lat., 154°06'36" W.long., to the opposite shore at 57°07'40" N.lat., 154°04'50" W.long.;

(ii) Horse Marine: northeast of a line from 57°06'27" N.lat., 154° W.long.; to 57°07'33" N.lat., 154°03' W.long.;

(iii) Olga Narrows: south of 57°04'23" N.lat., and north of a line from 57°01'27" N.lat., 154°08'32" W.long. running east to a point 75 fathoms from the mean low tide mark to 57°11' N.lat., 154°07'58" W.long.;

(C) Portage Bay

(i) Southeast Arm: east of the longitude of Bert Point;

(ii) Sulua Bay: north of 56°58'36" N.lat.;

(D) Deadman Bay: north of a line from 57°05'30" N.lat., 153°50'54" W.long., to 57°07'05" N.lat., 153°51'44" W.long.;

(E) Sukhoi Lagoon: in the bay and the lagoon;

(2) Southwest Kodiak District

(A) all waters east of the terminus of the Ayakulik River (Red River);

(B) all waters east of the terminus of the unnamed stream at 57°16'21" N.lat., 154°37'10" W.long.;

(C) all waters east of a line from 57°33'48" N.lat., 154°30'54" W.long., to 57°31'26" N.lat., 154°34'36" W.long., including Sturgeon Lagoon;

(D) all waters of Grant's Lagoon and Halibut Bay Lagoon;

(E) that portion of the Southwest Kodiak District enclosed by a line from Cape Karluk (57°34'42" N.lat., 154°30'54" W.long.) to 57°34'42" N.lat., 154°26'36" W.long., to Karluk Spit at 57°34'37" N.lat., 154°26'30" W.long.;

(3) Northwest Kodiak District

(A) Uyak Bay: south of 57°23'06" N.lat.;

(B) Zachar Bay: within a line from 57°33'36" N.lat., 153°47'42" W.long. northerly to a point at 57°34'36" N.lat., 153°47'30" W.long.;

(C) Spiridon Bay: east of 153°42'24" W.long.;

(D) Little River: within 500 yards of the terminus;

(E) Cannon's Lagoon (Campbell's): in the lagoon and 500 yards from its mouth;

(F) Uganik Bay

(i) South Arm: south of 57°39'44" N.lat.;

(ii) East Arm (Mush Bay): within a line from Packers Spit at 57°44'30" N.lat., 153°29'54" W.long., the opposite shore at 57°42'30" N.lat., 153°28'36" W.long., and including the lagoon behind Packers Spit;

(G) North Uganik Passage: south of 57°49'30" N.lat., to 57°48'30" N.lat.;

(H) Terror Bay: all waters of the bay south of 57°46'30" N.lat.;

(I) Kizhuyak Bay

(i) Barabara Cove: within one-half statute mile of the stream terminus;

(ii) all waters south of a line extending from Pestchani Point to a point on the opposite shore at 57°47' N.lat., 152°54' W.long.;

(J) Sharatin Bay: south of 57°50'41" N.lat.;

(K) Soldier's Bay: within a line from Otmeloi Point to Entrance Point to the southern tip of Low Island to Seredni Point;

(L) Anton Larsen Bay: south of 57°51'54" N.lat.;

(M) Ouzinkie Harbor: all waters of Ouzinkie Harbor north of a line from 57°55'10" N.lat., 152°36' W.long. to 57°55'03" N.lat., 152°29'20" W.long.;

(N) Monks Lagoon: all waters of the lagoon northwest of a line between ADF&G regulatory markers located on both sides of the entrance to the lagoon;

(6) Northeast Kodiak District

(A) Mill Bay and all those waters bounded by a line from Spruce Cape to the northernmost point of Woody Island, to the northernmost point of Holiday Island, to the northernmost point of Near Island, to the opposite shore on Kodiak Island at 57°47'25" N.lat., 152°23'23" W.long.;

(B) Women's Bay: all waters inside a line from the tip of Nyman Peninsula (57°43'18" N.lat., 152°31'25" W.long.), to the northeastern tip of Mary's Island (57°42'27" N.lat., 152°31'52" W.long.) to the southeastern shore of Women's Bay at 57°42' N.lat., 152°31'23" W.long.;

(C) Middle Bay: all waters south of a line from 57°39'58" N.lat., 152°29'15" W.long., to the opposite shore at 57°39'30" N.lat., 152°28' W.long.;

(D) Kalsin Bay: all waters south of a line from a bluff on the east shore at 57°36'30" N.lat., 152°24'30" W.long., to the opposite shore at the southwest corner of the bay at 57°36'30" N.lat., 152°28'06" W.long.;

(7) Eastside Kodiak District

(I) Ugak Bay

(i) west of 152°52'30" W.long.;

(ii) Eagle Harbor: within one-half statute mile of the terminus of Eagle River;

(iii) Gull Cape Lagoon: in the lagoon;

(iv) Saltery Cove: all waters north of a line from a point at 57°29' N.lat., 152°43'06" W.long., to a point on the opposite shore at 57°29'48" N.lat., 152°47'42" W.long.;

(v) Passgshak River (No. 259-411): within 1000 yards from the terminus;

(J) Kiliuda Bay

(i) west of 153°03'36" W.long.;

(ii) Dog Bay: north of a line from Coxcomb Point to Shearwater Point;

(K) Shearwater Bay: north of a line from 57°20'23" N.lat., 152°52'47" W.long., to 57°20'45" N.lat., 152°53'30" W.long.;

(L) Sitkalidak Strait: north of a line at the latitude of Old Harbor Village (57°12'06" N.lat.) and west of 153°12'48" W.long.;

(M) Barling Bay: inside a line from 57°10'45" N.lat., 153°21'47" W.long., to 57°11'27" N.lat., 153°20'24" W.long.;

(N) Kaiugnak Bay: west of 153°39'32" W.long.;

(O) Kiavak Bay: in the lagoon and 500 yards from its mouth;

(P) Kaguyak Bay: west of 153°45'07" W.long.;

(Q) Seven Rivers Cove (includes stream no. 258-701): west of a line from 56°47'30" N.lat., 153°52'36" W.long. to 56°46'54" N.lat., 153°54' W.long.;

(R) Natalia Bay Lagoon: in the lagoon inside of 153°19'06" W.long.;

(8) Afognak District

(A) Kazakof Bay (Dunger Bay): north of 58°10'54" N.lat.;

(B) Kitoi Bay: west of a line from 58°10'39" N.lat., 152°17'13" W.long., to 58°09'32" N.lat., 152°18'36" W.long.;

(C) Ruth Bay (Izhut): west of 152°18'33" W.long.;

(D) Seal Bay: south of 58°21'38" N.lat., in the inner West Bay;

(E) Pauls Bay (Perenosa): within one-half statute mile of the terminus of Pauls Creek;

(F) Discoverer Bay: south of 58°19'06" N.lat.;

(G) Paramanof Bay

(i) East Arm: east of 152°45' W.long.;

(ii) South Arm: south of 58°15'57" N.lat.;

(iii) Thorsheim Bay (includes stream no. 251-302): south of a line from 58°17'12" N.lat., 152°50'24" W.long. to 58°17'08" N.lat., 152°50'42" W.long.

(iv) Long Lagoon Bay (includes stream no. 251-301): south of a line from 58°16'28" N.lat., 152°53'21" W.long. to 58°16'24" N.lat., 152°53'11" W.long.

(H) Malina Bay: east of 152°55' W.long.;

(I) Afognak Bay: north of a line from Otrubistoi Point to Settlement Point;

(9) Mainland District

(A) Swikshak Lagoon: all waters of the lagoon;

(B) Kukak Bay: all waters west of a line from a point at 58°18'52" N.lat., 154°16'32" W.long., then to a point at 58°18'45" N.lat., 154°16'05" W.long., then to a point at 58°17'18" N.lat., 154°17'23" W.long., then to a point at 58°15'56" N.lat., 154°16'29" W.long.

(C) Kafia Bay: within one statute mile outside the entrance of the outer lagoon;

(D) Wide Bay: west of a line from 156°28'42" W.long., 57°17'55" N.lat., to 156°31'59" W.long., 57°19'48" N.lat.;

(E) Chiniak Lagoon Creek (stream no. 262-154): all waters enclosed by a line from Cape Chiniak (58°31' N.lat., 153°54'30" W.long.) to a point on Village Beach approximately 500 yards from the entrance to Chiniak Lagoon;

(F) all waters of Big River (stream no. 262-152) flats west of 153°52'20" W.long.

(G) Hallo Bay

(i) Ninagiak River: inside of a line running in a southeasterly direction from a point approximately 500 yards north of the stream terminus and a line running in an easterly direction from a point approximately 500 yards south of the stream terminus;

(ii) unnamed stream (ADF&G stream no. 262-203): inside of a line running in an easterly direction from a point approximately 500 yards north of the stream terminus and a line running in a northeasterly direction from a point approximately 500 yards south of the stream terminus;

(H) Village Creek (stream no. 262-153): between two parallel lines that start at points located at higher high water beginning at approximately 500 yards north and 500 yards south of the stream terminus and extend east to mid-stream of Shelikof Strait;

(I) Kinak Bay (Kinak Creek, no. 262-451): in the lagoon and 500 yards from its mouth;

(J) Dry Bay: all waters of Dry Bay (ADF&G stream number 262-752) west of 155° 44' W. long.

(10) within the designated freshwater salmon streams and rivers of the Kodiak Area, and all salt water within 500 yards of all points of a straight line extending between the seaward extremities of the exposed tideland banks, or as marked by ADF&G regulatory markers. The provisions of 5 AAC 39.290 do not apply to the Kodiak Area. Freshwater salmon streams and rivers are those identified annually on a Kodiak Area Salmon Stream Chart available from the department.

(b) Where regulatory markers have been deployed by the department to aid fishermen in determining closed waters locations listed in this section, the markers will be placed either as close as possible to the described locations or in a location deemed necessary by the department. If the location of a regulatory marker is in conflict with the closed waters listed in this section, it is illegal to fish on the streamward side of the marker.

5 AAC 18.355. REPORTING REQUIREMENTS.(a) The operator of a floating salmon processing vessel or tender, or a shorebased processing operation, and a company employing aircraft used for transporting salmon, shall report in person, or by radio or telephone, to a local representative of the department located in the management area of intended operation before the start of processing or buying operations. The report must include the location and the date of intended operation, and identify and describe each vessel or other method of transport employed in hauling or processing salmon.

(b) A commercial fisherman shall report, on an ADF&G fish ticket at the time of landing, the number of salmon taken but not sold.

5 AAC 18.360. CAPE IGVAK SALMON MANAGEMENT PLAN.(a) In years when a harvestable surplus is beyond escapement goals, for the first (Black Lake) and second (Chignik Lake) runs of Chignik River system sockeye salmon is expected to be less than 600,000, there will be no commercial salmon fishery allowed in the Cape Igvak Section, as described in 5 AAC 18.200(g)(8) until a harvest of 300,000 sockeye salmon in the Chignik Area, as described in 5 AAC 15.100, is achieved. After July 8, and after at least 300,000 sockeye salmon have been harvested in the Chignik Area, and if escapement goals are being met, the department shall manage the fishery so that the number of sockeye salmon harvested in the Chignik Area will be at least 600,000 and the harvest in the Cape Igvak Section will approach as near as possible 15 percent of the total Chignik sockeye salmon catch.

(b) In years when a harvestable surplus beyond escapement goals for the first and second runs of Chignik River system sockeye salmon is expected to be more than 600,000, but the first run fails to develop as predicted and it is determined that a total sockeye salmon harvest in the Chignik Area of 600,000 or more may not be achieved, the Cape Igvak Section commercial salmon fishery will be curtailed in order to allow at least a minimum harvest in the Chignik Area of 300,000 sockeye salmon by July 9 if that number of fish is determined to be surplus to the escapement goals of the Chignik River system. After July 8, after at least 300,000 sockeye salmon have been harvested in the Chignik Area and its escapement goals are being met, the department shall manage the fishery so that the number of sockeye salmon harvested in the Chignik Area will be at least 600,000 and the harvest in the Cape Igvak Section will approach as near as possible 15 percent of the total Chignik sockeye salmon catch.

(c) On years when a harvestable surplus beyond the escapement goals for the first and second runs of Chignik River system sockeye salmon is expected to be more than 600,000, and the department determines the runs are as strong as expected, the department will manage the fishery in such a manner whereby the number of sockeye salmon taken in the Cape Igvak Section will approach as near as possible 15 percent of the total Chignik sockeye salmon catch.

(d) The total Chignik sockeye salmon catch constitutes those sockeye salmon caught within the Chignik Area plus 80 percent of the sockeye salmon caught in the East Stepovak, Southwest Stepovak, Stepovak Flats, Balboa Bay, and Beaver Bay sections, as described in 5 AAC 09.200(f), plus 80 percent of the sockeye salmon caught in the Cape Igvak Section. The harvest in the Cape Igvak Section at any time before July 25 may be permitted to fluctuate above or below 15 percent of the cumulative Chignik sockeye salmon catch.

(e) This allocation method will be in effect through July 25. The first fishing period of the commercial salmon fishing season in the Cape Igvak Section will not occur before the first fishing period of the commercial salmon fishing season in the Chignik Area. After July 25, commercial salmon fishing season in the Cape Igvak Section may be allowed on the local Kodiak Area stocks or specifically for Chignik River system sockeye salmon if the second run escapement has reached 200,000.

(f) During the period from approximately June 26 to July 9, the strength of the second run of Chignik River system sockeye salmon cannot be evaluated. In order to prevent overharvest of the second run, commercial salmon fishing in the Cape Igvak Section will, in the department's discretion, be disallowed or severely restricted during this period.

(g) The department shall announce commercial salmon fishing periods by emergency order. The department shall give at least one day notice prior to the opening of a commercial salmon fishing period unless it is an extension of a fishing period in progress.

5 AAC 18.361. ALITAK BAY DISTRICT SALMON MANAGEMENT PLAN.(a) The department shall manage the commercial salmon fishery in the Alitak Bay District in accordance with the guidelines set out in the Alitak Bay District Salmon Management Plan. The goal of this plan is to achieve escapement and harvest objectives of sockeye, pink, and coho salmon stocks returning to the Deadman-Portage Bay Section systems and the Horse Marine, Frazer, Akalura, and Upper Station systems. It is the intent of the board that salmon bound to these systems be harvested to the extent possible by the traditional fisheries located in the Cape Alitak, Deadman-Portage Bay, and Moser-Olga Bay sections.

(b) The Cape Alitak Section must be managed during the period June 9 through July 15 based on the sockeye salmon return to the Frazer system. During the period July 16 through August 9, in odd numbered years this section must be managed based on the pink salmon return to the Frazer system and, in even numbered years this section must be managed based on the sockeye salmon return to Upper Station. During the period August 10 through August 25, this section must be managed based on the sockeye salmon return to Upper Station but, on even numbered years this section must be managed based on the pink salmon return to the Frazer system. During the period August 26 through season's end, the Cape Alitak section must be managed based upon the coho and sockeye salmon returns to the entire Alitak District.

(c) The Moser-Olga Bay Section must be managed, during the period June 9 through July 15, based upon the sockeye salmon return to the Frazer system. During the period July 16 through August 9, in odd-numbered years this section must be managed based on the pink salmon return to the Frazer system and, in even-numbered years this section must be managed based on the sockeye salmon return to Upper Station. During the period August 10 through August 25, in odd-numbered years this section must be managed based on the sockeye salmon return to Upper Station and, in even numbered years this section must be managed based on either the pink salmon return to the Frazer system or on the sockeye salmon return to the Upper Station system. During the period August 26 through season's end this section must be managed based on the coho and late sockeye salmon returns to all Olga Bay systems.

(d) The Humpy-Deadman Section must be managed simultaneously, and with equivalent fishing time, with the Cape Alitak and Moser-Olga Bay sections during the period from June 9 through July 15. After July 15, the Humpy-Deadman Section must be managed based on the strength of returns to systems located within the section.

(e) The Dog Salmon Flats Section must be managed on the basis of sockeye and pink salmon returns to the Frazer River system during the period of June 9 through August 20. During the period of August 21 through season's end this section must be managed on the basis of coho salmon returns to the Dog Salmon River and Horse Marine systems. This section may only be opened to fishing when total desired escapement goals are expected to be exceeded. Such openings may not jeopardize achievement of minimum escapement goals for either of the two remaining salmon species. A 24 hour advance notice must be given before opening this section.

(f) The Inner and Outer Akalura sections must be managed based on early and late returns of sockeye salmon to the Akalura system during the period from June 9 through August 20. From August 21 through August 26, these sections must be managed based on coho and late sockeye

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salmon returns to the Akalura system. After August 26, both sections must be managed based on coho salmon returns to the Akalura system. The Inner and Outer Akalura sections may be opened to fishing only when desired escapement goals are expected to be exceeded. Such openings may not jeopardize achievement of minimum escapement goals for other salmon species. Fishing time in the Outer Akalura Section must always occur before any fishing time in the Inner Akalura section is allowed for each target species. At least 24 hours advance notice must be given before opening either the Inner or Outer Akalura Sections.

(g) The Inner and Outer Upper Station sections must be managed based on early and late returns of sockeye salmon to the Upper Station system during the period from June 9 through August 20. From August 21 through August 25, these sections must be managed based on coho and late sockeye salmon returns to the Upper Station system. After August 26, both sections must be managed based on coho and late sockeye salmon returns to the Upper Station system. The Inner and Outer Upper Station sections may be opened to fishing only when desired escapement goals are expected to be exceeded. Such openings may not jeopardize achievement of minimum escapement goals for the other salmon species. Fishing time in the Outer Upper Station Section must always occur before any fishing time in the Inner Upper Station Section is allowed for each target species. At least 24 hours advance notice must be given before opening of either the Inner or Outer Upper Station sections.

5 AAC 18.362. WESTSIDE KODIAK MANAGEMENT PLAN. (a) The goal of the Westside Kodiak Management Plan is to achieve escapement and harvest objectives of sockeye salmon returning to the Karluk, Ayakulik, and other Westside minor sockeye salmon systems and of pink, chum and coho salmon returning to systems in the Southwest Afognak, Central, North Cape, Anton Larsen Bay, Sheratin Bay, Kizhuyak Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, Zachar Bay, Uyak Bay, Outer Karluk, Inner Karluk, Sturgeon Bay, Halibut Bay, Outer Ayakulik, and Inner Ayakulik sections. It is the intent of the board that salmon bound to these systems be harvested to the extent possible by the traditional fisheries located in all 17 sections. The department shall manage the Northwest Kodiak and Southwest Kodiak districts and the Southwest Afognak Section in accordance with the guidelines set out in this plan.

(b) The Central and North Cape sections shall be managed

(1) from June 9 through approximately June 15, as a mixed stock fishery directed on early run sockeye salmon returning to Karluk, Ayakulik, and Olga Bay systems. The department shall open two commercial test fishing periods, each not exceeding 33 hours in length, during this time.

(2) from approximately June 16 through July 5, based on early run sockeye salmon returning to the Karluk system.

(3) from approximately July 6 through August 15, based on pink salmon returning to the major pink salmon systems in the Northwest Kodiak District.

(4) from approximately August 16 through August 24, based on pink salmon returning to the Northwest Kodiak District and on late run sockeye salmon returning to the Karluk system.

(5) from approximately August 25 through September 5, based on late run sockeye salmon returning to the Karluk system.

(6) after approximately September 5, based on coho salmon returning to the Northwest Kodiak District.

(c) The Anton Larsen Bay, Sheratin Bay, Kizhuyak Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, Zachar Bay and Uyak Bay sections shall be managed

(1) from June 9 through approximately June 15, based on local sockeye and early run chum salmon returning to the major systems in each section. The department shall open two commercial test fishing periods, each not exceeding 33 hours in length and occurring simultaneously with those in the Central and North Cape sections, during this time.

(2) from approximately June 16 through July 5, based on local sockeye and early run chum salmon returning to the major systems in each section.

(3) from approximately July 6 through July 31, based on local sockeye, pin and early run chum salmon returning to the major systems in each section.

(4) from approximately August 1 through August 24, based on local pink and late run chum salmon returning to the major systems in each section.

(5) from approximately August 25 through September 5 based on local pink, late run chum and coho salmon returning to the major salmon systems in each section.

(6) after approximately September 5, based on coho salmon returning to the major coho salmon systems in each section.

(d) The Southwest Afognak Section shall be managed

(1) from June 9 through approximately June 15, as a mixed stock fishery directed on early run sockeye salmon returning to Karluk, Ayakulik, and Olga Bay systems. The department shall open one commercial test fishing period, not exceeding 33 hours in length, during this time;

(2) from approximately June 16 through July 5, based on early run sockeye salmon returning to the Karluk system;

(3) from approximately July 6 through August 15, based on pink salmon returning to the major pink salmon systems in the Southwest Afognak Section and the Northwest Kodiak District. From July 6 through July 25, the section must also be managed according to 5 AAC 18.363(c), the North Shelikof Management Plan;

(4) from approximately August 16 through August 24, based on pink salmon returning to the major pink salmon systems in the Southwest Afognak Section and the Northwest Kodiak District and on the late run sockeye salmon returning to the Karluk system;

(5) from approximately August 25 through September 5, based on late run sockeye salmon returning to the Karluk system;

(6) after approximately September, based on coho salmon returning to the major coho salmon systems in the Southwest Afognak District.

(e) The Inner and Outer Karluk sections must be managed

(1) from June 9 through July 15, based on early run sockeye salmon returning to the Karluk system. The department may open fishing periods in the Inner Karluk section only if it appears that the desired early run escapement goal will be exceeded. In the Outer Karluk Section, the department may not open more than one 33 hour fishing period before June 16 and, from June 16 through approximately July 15, shall open fishing periods simultaneously with open periods in the Central Section;

(2) from July 16 through approximately August 24

(A) on odd year cycles, based on late run sockeye salmon returning to the Karluk system;

(B) on even year cycles, based on late run sockeye and pink salmon returning to the Karluk system;

(3) from approximately August 25 through September 5, based on late run sockeye salmon returning to the Karluk system;

(4) after approximately September 5, based on coho salmon returning to the Karluk system.

(f) The Sturgeon and Halibut Bay sections shall be managed

(1) from June 9 through approximately June 22, as mixed stock fisheries directed on early run sockeye salmon returning to the Karluk, Ayakulik and Olga Bay systems. The department shall not open any commercial fishing periods during this time

(2) from approximately June 23 through July 15, based on early run sockeye salmon returning to the Ayakulik and Karluk systems, except that the Sturgeon Section shall also be managed with consideration for early run chum salmon returning to the Sturgeon system;

(3) from approximately July 16 through August 24,

(A) in the Sturgeon Section

(i) on odd year cycles, based on late run sockeye salmon returning to the Karluk system;

(ii) on even year cycles, based on late run sockeye and on pink salmon returning to the Karluk system;

(B) in the Halibut Bay Section

(i) on odd year cycles, from approximately July 16 through July 31 on late run sockeye salmon returning to the Ayakulik system and, from approximately August 1 through August 24 on late run sockeye salmon returning to the Karluk system;

(ii) on even year cycles, from approximately July 16 through July 31, on late run sockeye salmon and pink salmon returning to the Ayakulik system and, from approximately August 1 through August 24, on late run sockeye salmon returning to the Karluk system and on pink salmon returning to the Ayakulik system;

(4) from approximately August 25 through September 5, based on late run sockeye salmon returning to the Karluk system;

(5) after approximately September 5, based on coho salmon returning to local coho salmon systems.

(g) The Inner and Outer Ayakulik sections shall be managed

(1) from June 9 through approximately July 15, based on early run sockeye salmon returning to the Ayakulik systems;

(2) from approximately July 16 through August 24

(A) on odd year cycles, based on late run sockeye salmon returning to the Ayakulik system;

(B) on even year cycles, based on late run sockeye and pink salmon returning to the Ayakulik system;

(3) after approximately August 24, based on coho salmon returning to the Ayakulik system.

5 AAC 18.363. NORTH SHELKOF STRAIT SOCKEYE SALMON MANAGEMENT PLAN.

(a) The purpose of the North Shelkof Strait Sockeye Salmon Management Plan is to allow traditional fisheries in the area to be conducted on Kodiak Area salmon stocks, while minimizing the directed harvest of Cook Inlet sockeye salmon stocks. The board recognizes that some incidental harvest of other stocks has and will occur in this area while the seine fishery is managed for Kodiak Area salmon stocks. The board intends, however, to prevent a repetition of the non-traditional harvest pattern which occurred in 1988.

(b) from July 6 through July 25 in the Dakavak Bay, Outer Kukak Bay, Inner Kukak Bay, Hallo Bay and Big River sections of the Mainland District and in the Shuyak Island and Northwest Afognak sections of the Afognak District, the department shall manage the fishery as follows:

(1) management of the fishery shall be based on local stocks;

(2) the fishery may remain open during normal fishing periods until the harvest exceeds 15,000 sockeye salmon;

(3) when the harvest exceeds 15,000 sockeye salmon, the department shall restrict the fishery by emergency order to waters of:

(A) Dakavak Bay, Outer Kukak Bay, Inner Kukak Bay, Hallo Bay and Big River sections west of a line from Cape Douglas at 58°51'06" N. lat., 153°14'54" W. long., to a point at 58°42'40" N. lat., 153°26'18" W. long., to a point east of Swikshak river at 58°38'06" N. lat., 153°35'24" W. long., to Cape Chiniak at 58°31' N. lat., 153°54'21" W. long., to Cape Nukahak at 58°23'30" N. lat., 153°57' W. long., to Cape Ugyak at 58°16'36" N. lat., 154°06'03" W. long., to Cape Gull at 58°13' N. lat., 154°08'30" W. long., to Cape Kuliak at 58°08'11" N. lat., 154°12'34" W. long., to Cape Atushagvik at 58°05' N. lat., 154°18'48" W. long., to Cape Iktugitak at 58°01'12" N. lat., 154°34'48" W. long., to the southern entrance of Dakavak Bay at 58°01' N. lat., 154°43'30" W. long.;

(B) Shuyak Island and Northwest Afognak sections south and east of a line from Point Banks at 58°38' N. lat., 152°18'54" W. long., to Dark Island at 58°38'45" N. lat., 152°33'05" W. long., to Gull Island at 58°35'48" N. lat., 152°38'45" W. long., to the northern entrance of Big Bay at 58°06" N. lat., 152°40'12" W. long., to the western entrance of Blue Fox Bay at 58°27'41" N. lat., 152°43'42" W. long., to Black Cape at 58°24'33" N. lat., 152°53'09" W. long., to Cape Paramanof at 58°18'21" N. lat., 153°02'45" W. long.

(c) From July 6 through July 25 in the Southwest Afognak Section of the Afognak District, the department shall manage the fishery as follows:

(1) management of the fishery shall be based on local stocks consistent with 5 AAC 18.362(d)(3);

(2) the fishery may remain open during normal fishing periods until the harvest exceeds 50,000 sockeye salmon;

(3) when the harvest exceeds 50,000 sockeye salmon, the department shall restrict the fishery by emergency order to waters of the Southwest Afognak Section east of a line from one-half nautical mile west of Cape Paramanof at 58° 18' 21" N. lat., 153° 02' 45" W. long., to one-half nautical mile west of Tanaak Cape at 58° 15' 36" N. lat., 153° 06' 09" W. long., to one-half nautical mile west of Steep Cape at 58° 12' 05" N. lat., 153° 12' 33" W. long., to one-half nautical mile west of a point at 58° 08' 25" N. lat., 153° 18' 52" W. long., to one-half nautical mile west of Raspberry Cape at 58° 03' 35" N. lat., 153° 25' 06" W. long.

5 AAC 18.364. CRESENT LAKE COHO SALMON MANAGEMENT PLAN. (a) From July 15 through October 31, the department shall manage the commercial, sport, and subsistence fisheries in Settler Cove to provide for full utilization of the enhanced stock of coho salmon returning to Crescent Lake in accordance with the Crescent Lake Coho Salmon Management Plan in this section.

(b) Sport and subsistence fisheries are allowed in all waters of Settler Cove consistent with 5 AAC 64 and 5 AAC 01.

(c) The department may open, by emergency order, those waters of Settler Cove, between the causeway and a line from the seaward end of the Port Lions breakwater to a department marker located directly across Settler Cove from the breakwater, to the commercial taking of salmon only as follows:

(1) the department shall not allow the commercial taking of salmon before September 10 and;

(2) before opening the fishery, the department shall determine that 500 or more coho salmon are available in Settler Cove for harvest.

5 AAC 18.365. EASTSIDE AFOGNAK MANAGEMENT PLAN. (a) The goal of the Eastside Afognak Management Plan is to achieve escapement and harvest objectives of sockeye, pink, coho, and chum salmon returning to natural spawning systems in the Southeast Afognak, Duck Bay, Izhut Bay, and Kitoi Bay sections, and brood stock to Kitoi Bay hatchery. It is the intent of the board that salmon bound to these systems be harvested by the commercial fisheries located in these sections.

(b) The Southeast Afognak Section shall be managed on sockeye salmon returning to Afognak Lake during the period from June 9 through July 5. From July 6 through August 24, fishing opportunities will be based on pink salmon returning to major systems in Afognak, Kazakof (Danger), and Marka bays. After August 24, fishing time will be dependent on coho salmon returning to this section.

(c) The Duck Bay Section shall be managed based on early chum or sockeye salmon returns to Kitoi Bay hatchery during the period June 9 through July 18. From July 19 through August 24, fishing time will be based on returning mixed wild and hatchery pink salmon. After August 24, this section shall be managed on local coho salmon runs.

(d) The Izhut Bay Section shall be managed based on the early chum or sockeye salmon returning to Kitoi Bay hatchery during the period June 9 through July 18. From July 19 through August 1, this section may remain closed to fishing to assure that pink salmon cost recovery goals are achieved at Kitoi Bay hatchery. If hatchery cost recovery harvests are not required, fishing time in this section will depend on returning wild and hatchery pink salmon from July 19 through August 24. After August 24, fishing time will be dependent on returns of local coho salmon and late hatchery sockeye salmon runs.

(e) The Kitoi Bay Section shall be managed on early run chum or sockeye salmon returning to the Kitoi Bay hatchery, from June 9 through July 20. From July 3 through July 20, fishing opportunities will not occur until chum salmon brood stock requirements for the hatchery are assured. After July 20 through August 20, this section will be managed for pink salmon cost recovery and brood stock requirements. If there is no pink salmon cost recovery, the section may be managed to harvest pink salmon that exceed to brood stock needs. After August 20, fishing opportunities may be provided to harvest returning late sockeye and coho salmon that exceed to brood stock needs.

5 AAC 18.366. SPIRIDON LAKE SOCKEYE SALMON MANAGEMENT PLAN. (a) The department shall manage the commercial, sport, and subsistence fisheries in Spiridon Bay to provide for full use of the enhanced stock of sockeye salmon returning to Spiridon Lake.

(b) The purpose of the Spiridon Bay harvest strategy is to allow the orderly harvest of sockeye salmon returning to Telrod Cove from the Spiridon Lake enhancement project while providing adequate protection for local natural salmon stocks returning to other streams of the bay. The intent of the enhancement project is for the harvest of returning enhanced salmon to occur in traditional commercial fishing areas of the Northwest Kodiak District during openings directed at harvesting Karluk sockeye and westside pink and chum salmon stocks.

(c) The Spiridon Bay Special Harvest Area is that area in Spiridon Bay west of a line from 153° 37' 21" W. long., 57° 38' 54" N. lat., to the opposite shore at 153° 38' 27" W. long., 57° 38' N. lat., to 153° 42' 24" W. long.

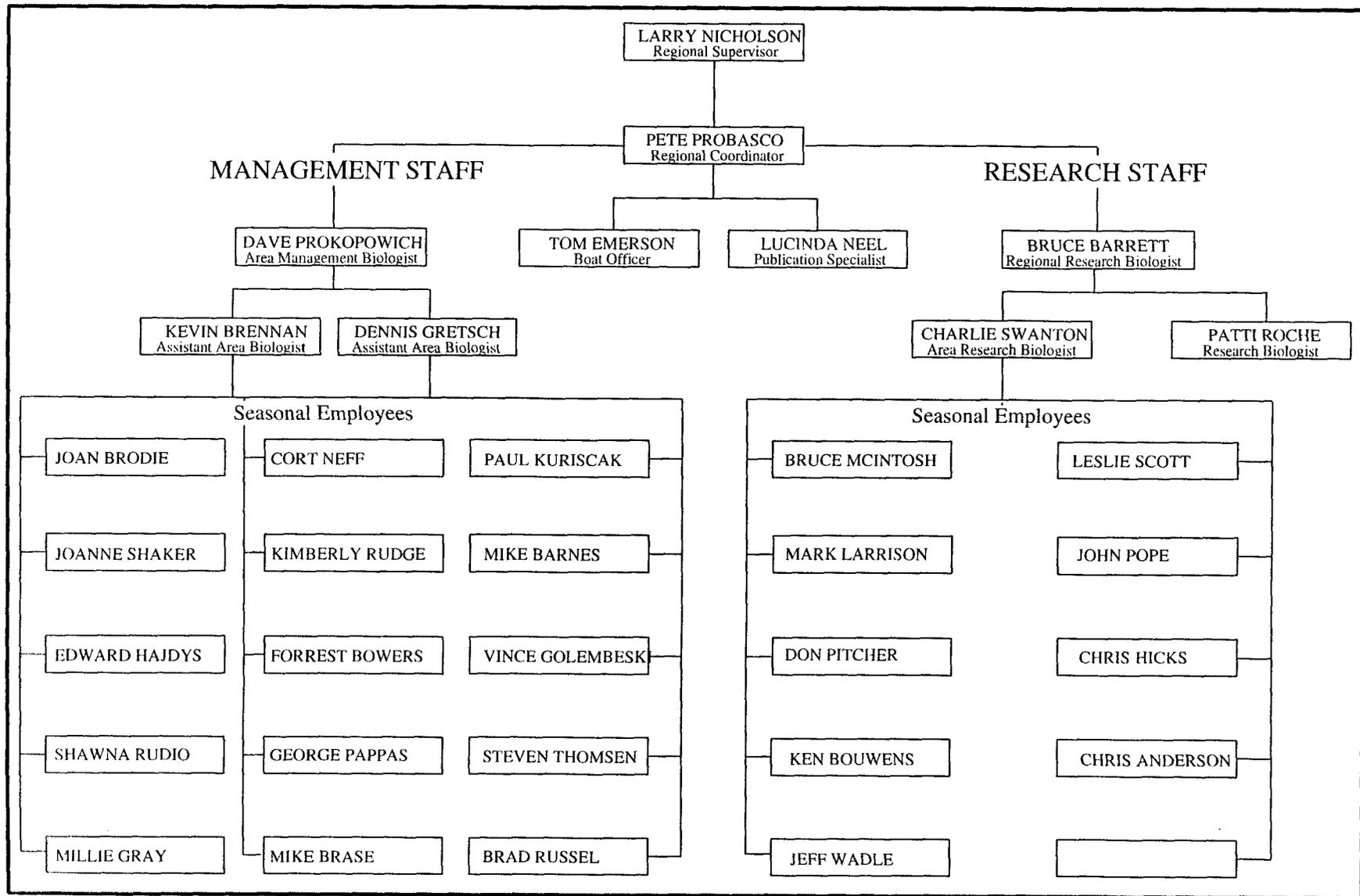
(d) Only purse seines and beach seines may be operated in the Spiridon Bay Special Harvest Area.

(e) If a harvestable surplus of enhanced sockeye salmon is in the special harvest area emergency order openings, not to exceed six hours per day and only during daylight hours, will be announced. The openings will be started by an aerial flare launched by an ADF&G representative. When possible, openings will be coordinated to occur at the beginning of openings in the Northwest Kodiak District.

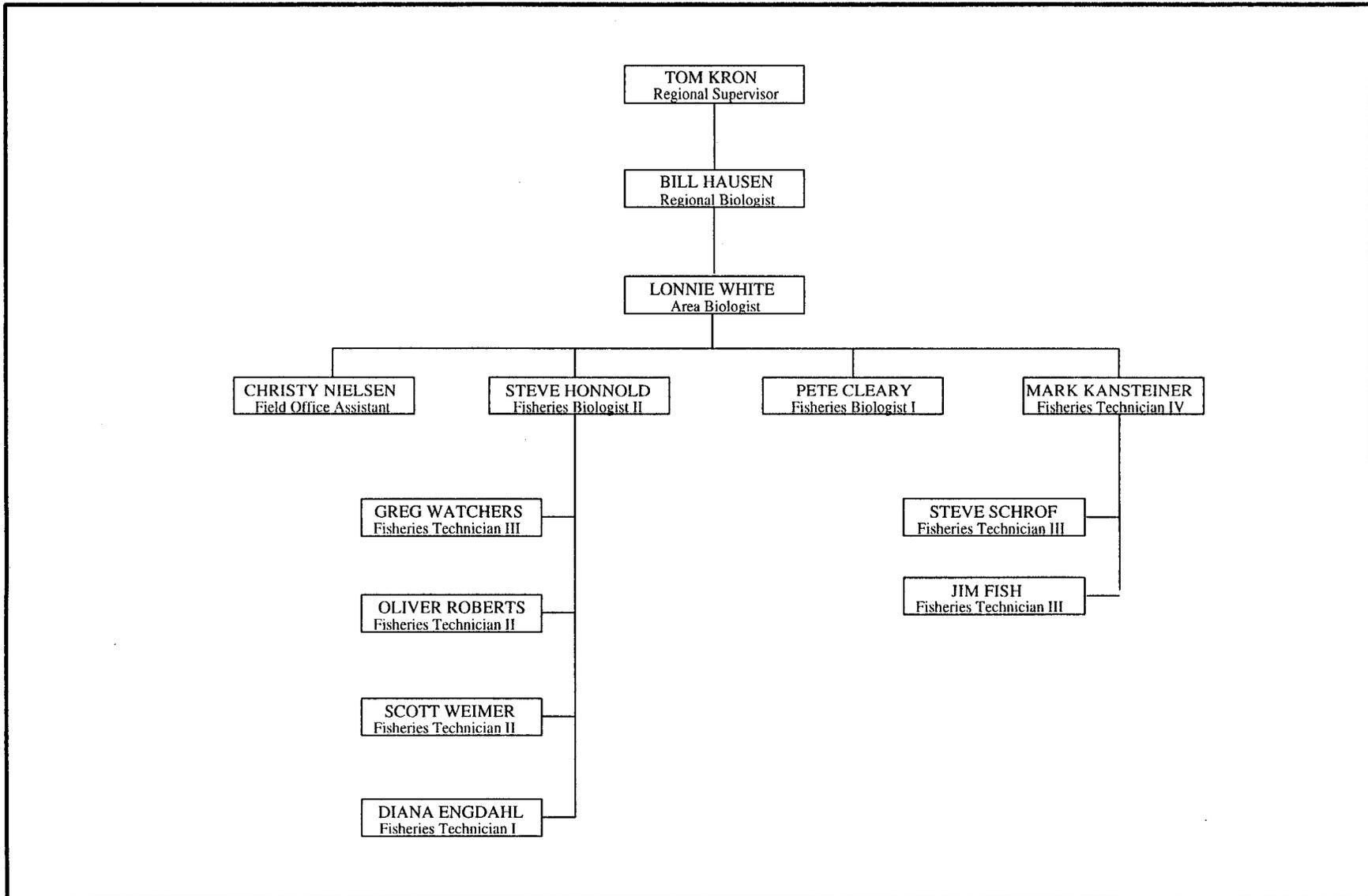
5 AAC 18.394. POSSESSION OF STEELHEAD. Steelhead taken incidental to commercial salmon fishing in Karluk Lagoon must be returned to the water unharmed.

APPENDIX D

**ADF&G Kodiak Area Salmon Staff
and Field Projects**



Appendix D.1. Flowchart of the Alaska Department of Fish and Game staff involved in the salmon management and research of the Kodiak Management Area, 1993.



Appendix D.2. Flowchart of the Alaska Department of Fish and Game staff involved in the rehabilitation, enhancement, and development of salmon systems of the Kodiak Management Area, 1993.

Appendix D.3. Commercial salmon management and research field projects and dates of operation in the Kodiak Management Area, 1993.

Field Project Location	Purpose	Dates of Operation
Karluk Lagoon	Adult Salmon Counting Weir	5/24 - 9/29
Red Lake	Sockeye Salmon Smolt Weir	5/01 - 7/01
Ayakulik River	Adult Salmon Counting Weir	5/22 - 8/29
Olga Lake	Sockeye Salmon Smolt Weir	5/01 - 8/10
Upper Station	Adult Salmon Counting Weir	5/29 - 9/11
Dog Salmon River	Adult Salmon Counting Weir	6/09 - 8/29
Frazer Lake	Sockeye Salmon Smolt Weir and Adult Salmon Fish Pass	5/01 - 6/25 6/14 - 8/14
Akalura Creek	Sockeye Salmon Smolt Weir and Adult Salmon Counting Weir	5/01 - 6/20 6/02 - 9/05
Afognak River	Adult Salmon Counting Weir	5/23 - 9/11
Saltery Creek	Adult Salmon Counting Weir	6/23 - 8/08
Buskin River	Adult Salmon Counting Weir	5/30 - 7/31 8/21 - 9/29
Pauls Lake	Adult Salmon Counting Weir	6/10 - 7/15 8/06 - 9/01
Portage Lake	Adult Salmon Counting Weir	6/23 - 7/15
Little Waterfall	Adult Salmon Fishpass	7/01 - 9/07
Malina Lake	Sockeye Salmon Smolt Weir and Adult Salmon Counting Weir	5/28 - 6/09 5/31 - 8/10
Spiridon Lake	Sockeye Salmon Smolt Weir	5/01 - 6/15
Little Kitoi Lake	Sockeye Salmon Smolt Weir and Adult Salmon Counting Weir	5/20 - 6/15 6/01 - 8/29
Big Bay Creek	Adult Salmon Counting Weir	8/08 - 9/25
Carry Inlet	Adult Salmon Counting Weir	8/08 - 9/12

^a This list does not include field projects of short duration, such as smolt sampling at Afognak and Hidden Lakes, lake limnology and hydroacoustic studies, etc.

APPENDIX E

Kodiak Area Salmon Forecasts

Appendix E.1. Preliminary forecast of the 1993 Kodiak pink salmon return^a.

	<u>Total Return</u>	<u>Escapement</u> ^b	<u>Harvest</u>
Point Estimate:			
Natural Production	18.1 million	3.0 million	15.1 million
Hatchery Production	6.8 million	0.3 million	6.5 million
Total Production	29.9 million	3.3 million	21.6 million
Range Estimate:			
Natural Production	16.5-19.7 million	3.0 million	13.5-16.7 million
Hatchery Production	2.1- 8.0 million	0.3 million	1.8- 7.7 million
Total Production	18.6-33.6 million	3.3 million	15.3-24.4 million

^a Hatchery production forecast is for Kitoi Bay Hatchery and was prepared by Tim Joyce. See Afognak District for additional discussion. All numerical values represent numbers of pink salmon.

^b With the exception of hatchery production, escapement values represent indexed escapement.

Forecast Methods

The forecast for the 1993 natural or wild pink salmon run to the Kodiak Management Area was determined as follows: A point estimate for the total management area run was calculated from a stepwise multiple regression analysis of the past 27 years preemergent pink salmon sac fry sampling data. Variables used in the analysis were the indexed live fry densities and the combined March-April "departure from the norm" ambient air temperatures taken in Kodiak. The upper and lower ranges are the 80% confidence intervals.

Average survival rates from 1978-1991 were used to compute the Kitoi Bay hatchery pink run point estimate. The low range estimate was calculated by using the average survival rate of the two lowest odd year returns, and the high range was calculated by using the average survival rate of the two highest odd year returns.

Discussion of the 1993 Forecast

Preemergent pink salmon fry sampling of the Kodiak Management Area index streams conducted during March and April of 1992 indicated generally good over winter survival of the eggs and sac fry. These fry are from a good brood year escapement in 1991; the indexed escapement estimate was 4.32 million pink salmon. Sampling resulted in an unweighted live fry index of 289.21 live fry per square meter of spawning area. This live fry index is the highest odd year index on record. Early spring conditions in 1992 were very favorable for outmigration and nearshore pink fry survival. The record high live fry density and mild spring conditions are the factors which result in the 1993 pink salmon run being forecasted at near record high levels. The live fry index for the 1993 run is very similar to the index generated in the spring of 1990 (275.01 live fry/m²) which resulted in an odd year record high wild pink salmon harvest in 1991 of 15.3 million. However, in 1991, and in 1990, pink salmon returned at lower than expected levels and at low average weights. If marine conditions which may have affected the 1991 and 1990 runs haven't improved, the 1993 pink salmon run to Kodiak may be less than expected. **For planning purposes, the actual harvest for 1993 may only approach the lower end of the range at 15 million and likely will not reach the mid point estimate of 21.6 million pink salmon.**

Winter conditions for the eggs spawned in 1991 led to some concern for the 1993 return. Record rainfalls struck

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Kodiak in late October and early November leading to severe local flooding. By mid November heavy snows and cold temperature were the rule. The 1991 precipitation level was a record 95" in Kodiak, and the December snowfall of 24" was the fourth largest on record. Conditions during January and February of 1992 were generally cold and snowy, and on February 22 a record 21" of snow fell on Kodiak in a 24 hour period. Conditions during the sampling period in March and April were cold. All the index streams were open though there was significant amounts of shore ice, and new ice was forming in the first week of April. All lakes, including Karluk Lake, were frozen during the entire project. There were a few breaks in the ice on Karluk Lake, and open water was present on the south end of Camp Island and on the north end of the lake at the outlet. Though signs of flooding and scouring were seen in many streams the fry generally held very well and good survival was documented. Spring weather was very good during the period when pink salmon fry were migrating downstream out of the systems and when they were in the near shore ocean environment. Calm, sunny weather dominated, and ambient air temperatures, as measured in Kodiak, in April, May, and June were above the norm. The 1993 forecast is broken down by district as follows:

Afognak District: The preemergent fry index for this district is well above average for an odd year, more closely approximating an even year density. Fry production from Portage Creek (Perenos), East Arm Paramanof, and Big Danger Creek are all higher than average. Due to the excellent early marine conditions, a total run of 1.1 million pink salmon is expected. The escapement goal is 250,000 pink salmon, leaving **850,000** available for harvest.

Afognak District Supplemental Production: The Kitoi Bay Hatchery total pink run point estimate is 6.8 million fish from a release of 139.5 million reared fry and 7.6 million emergent fry. Only 270,000 pinks are needed for escapement and brood stock requirements, leaving **6.5 million** pink salmon available for harvest. Hatchery manager Tim Joyce reports that early marine conditions will probably produce better than average survivals. Further, he stated that the condition of the fish was excellent at release so the odd year mid point of 6.8 million can be expected, but returns above 8.0 million are not expected.

Westside Districts: Overall, live fry densities for this district are the highest on record, mainly due to the exceptionally high level of live fry found in the Uyak River and higher than average fry survival in the Terror and Uganik Rivers. Uyak, Terror, and Uganik rivers all showed signs of flooding but the fry seemed to have held and survived well. Live fry indexes were lower than expected in the East Uyak Creek (#203) and the Zachar River. Good escapement of pink salmon in 1991 combined with mild spring conditions and excellent early marine rearing conditions lead to a forecast of 5.5 million pink salmon expected to return to this district. The escapement goal for these district is 750,000 pink salmon leaving **4.75 million** available for harvest.

Alitak District: Live fry densities for this district were excellent. The overall live fry index for this district is one of the highest on record. Heavy flooding was evident on the Deadman River but the fry held and survived exceptionally well, and fry densities were well above average. Upper Dog Salmon (east fork) was sampled this year and densities were very high. Scouring was evident on lower Dog Salmon and lower Humpy River. The densities for Humpy River were better than average though more freezing damage was noted. Once again, the mild spring should enhance early marine fry survival. As a result of the high fry densities and the very favorable early marine conditions, a run of 3.5 million pink salmon is expected for this district. The escapement goal is 635,000 for the Alitak District leaving **2.87 million** pink salmon available for harvest.

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Eastside Districts: The overall live fry index for this district is very good. There were very high fry densities on some eastside streams (particularly Seven Rivers and Kiliuda) though the streams around the road system did show flooding damage (the Buskin, American, Sid Olds, and Saltery Creeks all had average to below average live fry densities). If the good spring conditions aid survival of outmigrating fry the pink run in 1993 for this district should be strong. With 6.5 million pink salmon forecasted to return to these districts, and an escapement goal of 750,000, this leaves **5.75 million** pink salmon available for harvest.

Mainland District: Fry sampling in this district was incomplete due to adverse weather conditions. Most streams sampled showed signs of flooding. Dakavak and Geographic streams were completely blank, with no live fry or eggs found and only few dead eggs found. Kukak, Missak, Kinak, and Kashvik streams all had very good live fry indices. Alinchak and Big Creek were low average with flooding and freezing damage evident. Overall, live pink fry densities were fair, and combined with good early marine conditions about 1.5 million pink salmon are forecasted to return to this district. Escapement requirements for this district are 645,000 pink salmon, leaving **855,000** pink salmon available for harvest.

Prepared by: Kevin Brennan
Assistant Area Management Biologist
Kodiak Management Area

Appendix E.2. Pink salmon forecast based on established methods for the Kodiak Management Area, 1993.

The "standard" stepwise multiple regression approach for the Kodiak pink salmon forecast yield a forecast of approximately 18 million pink salmon for the summer of 1993. 80% confidence and prediction intervals are 16.5 - 19.7 million and 13.8 - 22.4 million, respectively.

As has been the case since the 1987 forecasts, the model chosen by the stepwise multiple regression involves "Fry Index 2" and the sum of the March and April temperature deviations. Using these two predictor variables for forecasting would have performed very well in the last six years with the notable exception of 1992, which overpredicted the actual return by 8 million (5.6 million return on a 13.6 million forecast). The only other year that this model does a notably poor job of fitting is 1983; the model prediction for 1983 is 6 million fish too high. It cannot be evaluated from the given data whether or not the conditions that disrupted this model's fit in 1983 and 1992 currently exist; but when this model is off, it tends to be way off and too high. With nothing else to refer to, it seems reasonable to not expect "lightning to strike" two years in a row...

All the models that are traditionally fit for the Kodiak pink salmon forecasts predict pink salmon returns for the summer of 1993 in the range of 17-19 million fish (Table 1).

Table 1. Statistics on Kodiak 1993 pink salmon forecast models.

Model	R ²	MSE	80% Confidence Interval		80% Prediction Interval		Point Est.
			Lower	Upper	Lower	Upper	
Fry 1 with:							
March ^a	0.626	14.24	15.5	19.4	12.1	22.8	17.4
April ^b	0.690	11.80	17.2	20.9	14.2	24.0	19.1
M+A dev ^c	0.661	12.89	15.7	19.7	12.6	22.8	17.7
(Md&Ad) ^d	0.494	19.27	16.1	21.0	12.3	24.8	18.6
Fry 2 with:							
March	0.701	11.36	15.9	19.5	12.9	22.5	17.7
April	0.728	10.37	17.4	20.9	14.6	23.7	19.2
(S) M+A dev ^e	0.761	9.095	16.5	19.7	13.9	22.4	18.1
(Md&Ad) ^d	0.529	17.93	16.3	20.9	12.6	24.6	17.9

a "March" is the average March temperature.

b "April" is the average April temperature.

c "M+A dev" is the sum of March deviation and April deviation from norm.

d "Md" and "Ad" are the March and April deviations from norm.

e "(S)" denotes the model from the "standard approach" of stepwise multiple regression.

Data from unpublished memorandum from Doug Pengilly, Regional Biometrician, to Dave Prokopowich, Kodiak Area Management Biologist, 1992.

Appendix E.3.

Results of the 1992 preemergent pink salmon fry sampling for the 1993 return to the Kodiak Management Area.

Stream	Digs	Dig Dates	Live		Dead		1992 Index LiveFry/M ²	% Digs WithFry	1990 Index	1988 Index	Range of Development	H ₂ O Temp.
			Fry	Eggs	Fry	Eggs						
Perenosa - Up	20	3/28/92	8	3	0	67	2.15	20.0	194.22	1.08	95 - 99	1.0°C
Perenosa - Down	30	3/28/92	1768	0	85	1655	317.10	63.3	31.56	64.56	95 - 99	1.0°C
Perenosa (Total)	(50)		(1,776)	(3)	(85)	(1,722)	(191.09)	(46.0)	(72.23)	(39.17)		
Paramanoff	40	3/27/92	764	10	84	2,486	102.76	35.0	278.01	5.51	60 - 95	0.5°C
Afognak	50	3/13/92	49	20	1	244	5.27	10.0	-	5.38	95 - 99	1.5°C
Danger	40	3/27/92	2,584	0	153	1,601	347.55	80.0	292.27	174.31	40 - 99	0.0°C
Seal Bay (N)	(25)	3/28/92	(2,427)	(0)	(168)	(852)	(522.29)	(92.0)	(868.98)	(171.51)	60 - 99	1.0°C
L. Waterfall (N)-Up	(10)	3/28/92	(353)	(0)	(0)	(0)	(189.91)	(50.0)	(-)	(-)	80 - 99	0.0°C
L. Waterfall (N)-Dn	(10)	3/28/92	(856)	(0)	(37)	(2,485)	(460.53)	(100.0)	(69.94)	(172.16)	70 - 99	0.0°C
Afognak Total	180		5,173	33	528	9,390	154.61	41.1%	214.17	52.34	40 - 99%	
Baumans	30	3/16+4/6/92	1782	403	1	1,954	319.57	86.7	240.49	862.41	40 - 99	1.0°C
Terror	50	3/16/92	72	0	0	2,364	7.75	14.0	0.75	16.14	95	3.0°C
Uganik	60	3/15/92	257	1	57	3,127	27.65	20.0	9.42	1.43	85 - 95	2.0°C
Zachar - Up	30	3/20/92	9	0	0	15	1.61	3.3	17.40	0	99	2.0°C
Zachar - Down	20	3/20/92	87	0	0	884	23.40	25.0	4.04	94.96	95	2.0°C
Zachar (Total)	(50)		(96)	(0)	(0)	(899)	(10.33)	(12.0)	(12.05)	(37.98)		
Uyak 202	60	3/20/92	12,301	0	315	1,482	1,102.99	88.3	1,069.01	447.26	60 - 99	4.0°C
Uyak 203	20	3/17/92	379	0	14	51	101.95	20.0	237.80	80.70	40 - 70	3.0°C
Beaver Pond (N)	30	3/15/92	682	0	37	303	122.31	33.0			40 - 95	5.0°C
Westside Total	270		14,887	1	387	9,877	296.64	40.0%	286.36	211.53	40 - 99%	
Deadman	60	3/22/92	8,433	0	205	275	756.21	76.7	546.43	399.91	60 - 99	3.5°C
Narrows	30	3/23/92	1,430	61	26	215	256.41	50.0	264.17	135.76	10 - 95	2.0°C
Dog Salmon - Up	40	3/22/92	2,865	0	6	50	385.32	77.5	269.27	151.45	90 - 99	1.5°C
Dog salmon - Down	20	3/22/92	0	2	0	50	0.00	0	0.54	0		2.0°C
Humpy (Total)	(60)		(2,865)	(2)	(6)	(100)	(256.95)	(51.7)	(179.69)	(100.96)		
Humpy - Up	30	3/25/92	1,341	0	128	175	240.49	60.0	401.35	332.62	70 - 90	2.0°C
Humpy - Down	60	3/25/92	7,656	3	949	1,053	686.49	85.0	495.86	574.58	60 - 95	3.5°C
Humpy (Total)	(90)		(8,997)	(3)	(1,077)	(1,228)	(537.78)	(76.7)	(464.35)	(490.60)		
Alitak Total	240		21,725	66	1,314	1,818	487.00	67.1%	388.73	326.16	10 - 95%	

-Continued-

Appendix E.3. (page 2 of 2)

Stream	Digs	Dig Dates	Live		Dead		1992 Index LiveFry/M ²	% Digs WithFry	1990 Index	1988 Index	Range of Development	H ₂ O Temp.
			Fry	Eggs	Fry	Eggs						
Kiliuda	40	3/12/92	1063	0	149	533	142.97	47.5	76.93	15.47	95 - 99	4.0°C
Barling	40	3/26/92	974	0	0	2,908	131.00	52.5	51.65	210.09	40 - 95	3.0°C
Kaiugnak	50	3/26/92	4,529	265	659	4,225	487.32	68.0	739.32	72.09	80 - 99	0.5°C
Seven Rivers - Up	30	3/21/92	3,163	0	737	1,712	567.23	93.3	364.05	324.95	60 - 99	1.0°C
Seven Rivers - Down	60	3/21/92	6,774	136	478	5,722	607.40	86.7	392.74	215.20	50 - 99	2.5°C
Seven Rivers(Total)	(90)		(9,937)	(136)	(1,215)	(7,434)	(594.01)	(88.9)	(383.18)	(251.78)		
Saltery	50	3/11/92	1,852	43	29	1,164	199.28	70.0	521.00	227.25	70 - 95	3.0°C
Hurst	40	3/12/92	1,449	0	8	906	194.89	52.5	102.76	84.87	40 - 95	3.0°C
Sid Olds	50	3/3+4/6/92	1,435	2	7	699	154.41	48.0	139.56	306.77	40 - 99	0.5°C
American	60	3/5+3/11/92	1,077	3	304	703	96.57	37.0	255.73	378.39	20 - 95	4.5°C
Sheratin	50	3/13+4/6/92	413	0	1	530	44.44	28.0	39.81	7.10	95 - 98	4.0°C
Buskin - Up	20	3/14/92	225	32	35	1,158	60.53	40.0	216.01	602.29	60 - 90	1.5°C
Buskin - Down	40	3/09/92	843	0	73	3,210	113.38	45.0	26.50	99.93	40 - 80	1.5°C
Buskin (Total)	(60)		(1,068)	(32)	(108)	(4,368)	(95.76)	(43.0)	(89.67)	(267.39)		
Monashka (N)	20	3/14/92	0	0	0	257	0	0	-	-	-	2.0°C
General Total	530		23,797	481	2,480	23,727	241.56	55.9%	257.72	197.14	20 - 99%	
KODIAK-AFOGNAK												
TOTAL	1220		65,582	581	4,709	44,812	289.21	52.4%	289.77	204.34	10 - 99%	
Kukak	30	4/02/92	243	0	36	526	43.58	16.7	6.73	-	90 - 99	6.0°C
Missak	30	4/02/92	2,238	0	263	799	401.35	86.7	131.63	214.39	85 - 99	6.5°C
Kinak	40	4/02/92	818	0	77	1,298	110.02	57.5	161.51	42.64	60 - 99	6.0°C
Geographic	20	4/01/92	0	0	0	0	0.00	0	572.43	802.97		4.0°C
Dakavak	30	4/01/92	0	0	0	44	0.00	0	0.36	116.93		3.5°C
Kashvik	40	4/03/92	441	0	0	190	59.31	10.0	0.81	82.05	70 - 95	1.5°C
Alinchak	30	4/03/92	69	0	6	109	12.37	16.7	54.52	-	95	0.0°C
Portage	0		-	-	-	-	-	-	2.33	-		
Oil	0		-	-	-	-	-	-	225.68	-		
Jute	0		-	-	-	-	-	-	14.53	-		
Kanatak	0		-	-	-	-	-	-	186.51	83.57		
Big Creek	40	4/06/92	1,021	0	35	181	137.32	32.5	131.63	394.62	80 - 99	0.5°C
MAINLAND TOTAL	260		4,830	0	4170	3,147	99.94	28.9%	112.73	214.25	60 - 99%	

Temperature Data: March Mean Temp. = 32.3° f; Deviation from March Norm = -0.4° f. April Mean Temp. = 39.0° f; Deviation from April Norm = +1.0° f.

(N) = Non-Index Streams, results not included in District totals.

Appendix E.4. Preseason forecast of the sockeye salmon run to the Ayakulik River, Kodiak Management Area, 1993.

	Forecast Estimate (Thousands)	Forecast Range (Thousands)
Total Run	480	300-700
Escapement Goal	200-300	
Projected Harvest	180-280	

Forecast Methods

The 1993 Ayakulik sockeye forecast is the sum of individual predictions for six age classes: 1.1, 2.1, 1.2, 1.3, 2.2, and 2.3. The predictions were calculated from multiple regression equations developed from correlations between siblings, escapements, and returns for brood years post 1974. The forecast range is derived from the proportional error of previous Ayakulik River sockeye forecasts.

Forecast Discussion

The forecasted 1993 Ayakulik sockeye run (480 thousand) is about half the previous 5 year average (1 million) and about 40 % less than the 1992 run (748 thousand). Most (85%) of the 1993 run should be 5 and 6 year old fish produced from 1987 and 1988 escapements. The expected 1993 commercial harvest off the Ayakulik is 180 to 280 thousand fish. The majority of the catch should occur in June. The confidence in this forecast is good.

Appendix E.5. Preseason forecast of the sockeye salmon run to the Frazer Lake System, Kodiak Management Area, 1993.

	Forecast Estimate (Thousands)	Forecast Range (Thousands)
Total Run	430	200-700
Escapement Goal	140-200	
Projected Harvest	230-290	

Forecast Methods

The 1993 Frazer Lake forecast is the pooled results of four age specific estimates derived by regression equations of sibling-return relationships for post 1974 broods. Age 1.2 prediction was determined from age 1.1 siblings; age 1.3 from age 1.2 siblings; age 2.2 from age 1.2 and age 2.2 siblings; and age 2.3 from age 2.2 siblings. The forecast range is the approximate 80 % confidence level around the mean as derived from the proportional error of previous Frazer Lake run forecasts.

Forecast Discussion

The 1993 Frazer Lake run (430 thousand) should provide about half as many fish as the previous 5 year average (840 thousand) but about the same number as the 1992 run (418 thousand). Four and five year old, two ocean year fish are expected to comprise about 86 % of the 1993 run. The projected 1993 commercial harvest is 230 to 290 thousand fish. In the Alitak Bay District, the Frazer Lake sockeye run is mainly from early June to mid July, and the run generally peaks in late June. Confidence in this forecast is moderate.

Appendix E.6. Preseason forecast of the early sockeye salmon run to the Upper Station Lake System, Kodiak Management Area, 1993.

	Forecast Estimate <u>(Thousands)</u>	Forecast Range <u>(Thousands)</u>
Total Run	98	50-150
Escapement Goal	50-75	
Projected Harvest	23-48	

Forecast Methods

The 1993 Upper Station run forecast is the pooled results of four age specific estimates derived by regression equations of sibling-return relationships for post 1974 brood years. Age 1.2 predication was determined from age 0.2 and age 1.1 siblings; age 1.3 from age 1.2 siblings; age 2.2 from parent escapement and age 1.2 and estimated 1.3 siblings; and age 2.3 from age 2.2 siblings. The forecast range is the approximate 80 % confidence level around the mean as derived from the proportional error of previous early run forecasts for Upper Station Lakes.

Forecast Discussion

If the forecast is correct, the 1993 run should provide about 20% fewer fish than the previous 5 year average (124 thousand) but more than twice the run that occurred in 1992 (41 thousand). Most (62%) of the 1993 run is expected to be age 2.2 fish which are two ocean 5 year olds. The expected 1993 commercial harvest from the early run is about 25 to 50 thousand fish. In the Alitak Bay District, the early Upper Station sockeye run extends from early June to mid July; the peak occurs about mid June. Overall, the confidence in the 1993 forecast is not high.

Appendix E.7. Preseason forecast of the late sockeye salmon run to the Upper Station Lake System, Kodiak Management Area, 1993.

	<u>Forecast Estimate</u> <u>(Thousands)</u>	<u>Forecast Range</u> <u>(Thousands)</u>
Total Run	585	300-900
Escapement Goal	150-200	
Projected Harvest	385-435	

Forecast Methods

The 1993 Upper Station late run forecast represents the sum of four age specific estimates from regressions equations developed from sibling and escapement-return relationships for the post 1974 brood years and a single age specific estimate derived from a smolt abundance index. Age 0.2 return was determined from a parent escapement relationship; age 0.3 from age 0.2 siblings; age 1.3 from age 1.2 siblings; and age 2.2 from the estimated age 1.3 siblings. Age 1.2 return from the 1989 brood year was estimated from the relationship of age 1. smolt and age 1.2 adult abundance for the 1988 brood year. The forecast range is the approximate 80 % confidence level around the mean as derived from the proportional error of previous late run forecasts for Upper Station Lakes.

Forecast Discussion

The 1993 run is expected to provide about 20 % fewer fish than the previous 5 year average (719 thousand) but 40 % more than the 1992 run (418 thousand). Age 0.2 and 0.3 fish should compose about 40 % of the run, and age 2.2 is expected to be about 35 % of the run, which are two ocean 5 year olds. The expected 1993 commercial harvest from the late run is 385 to 435 thousand fish. In the Alitak Bay District, the late Upper Station sockeye run extends from mid July through early September. Typically, the peak is in mid August. Confidence in this forecast is moderate.

Appendix E.8. Preseason forecast of the early sockeye salmon run to the Karluk Lake System, Kodiak Management Area, 1993.

	Forecast Estimate (Thousands)	Forecast Range (Thousands)
Total Run	600	350-750
Escapement Goal	150-250	
Projected Harvest	350	

Forecast Methods

The 1993 Karluk early run forecast represents the sum of four age class estimates mainly derived from sibling relationships. Age 2.2 fish were estimated from the relationship of age 1.2 and 2.1 fish to age 2.2 fish in the 1981-87 brood years and by the average number of age 2.2 fish in the same brood years. The age 2.3 estimate was determined from brood year relationships of age 1.2 fish to 2.3 fish and by the average number of age 2.3 fish in the 1987-92 runs. The age 3.2 estimate was determined from previous brood year relationships of age 3.1 fish to 3.2 fish, and the age 3.3 estimate was based on similar relationships of age 3.2 to age 3.3 fish.

Forecast Discussion

This is the first year that a formal forecast has been prepared for the early Karluk sockeye run. All of the age specific estimates were determined using 1985-92 run numbers by age that were assigned to the respective parent year escapements to create a brood table. While there is strong confidence in the brood table, the confidence in the 1993 run estimate is only fair. The problem is that there are not strong sibling correlations in the brood table data except for the relationship of age 3.2 to 3.3 fish which is strong.

If the 1993 run materializes as forecasted, there should be about 30% more fish than last year, and if the desired escapement of 250 thousand is achieved, about 350 thousand fish should be available for harvest. Most (65%) of the 1993 run is expected to be two-ocean age (ages 2.2 and 3.2) fish.

Appendix E.9 Preseason forecast of the late sockeye salmon run to the Karluk Lake System, Kodiak Management Area, 1993.

	Forecast Estimate (Thousands)	Forecast Range (Thousands)
Total Run	875	575-1,175
Escapement Goal	400-550	
Projected Harvest	325	

Forecast Methods

The 1993 Karluk late run forecast represents the sum of four age class estimates mainly derived from sibling relationships. Age 2.2 fish were estimated from the relationship of escapement to age 2.2 return. The age 2.3 estimate was determined from the relationship of ages 1.2 and 1.3 fish to age 2.3 return. The age 3.2 estimate was determined from the relationship of age 2.2 fish to age 3.2 fish return, while the age 3.3 estimate was derived from the relationship of age 1.3 fish to 3.3 fish and by the average return of age 3.3 fish from the 1981-86 brood years.

Forecast Discussion

This is the first year that a formal forecast has been prepared for the Karluk late sockeye salmon run. All of the age specific estimates were determined using estimated 1985-92 run numbers by age that were assigned to the respective parent year escapements to form a brood table. While there is good confidence in the late Karluk run brood table, the confidence in the 1993 run forecast is only moderate. Part of the problem is that the brood table contains a relatively small data set due to non-availability of catch samples pre 1985. The other is that a strong sibling correlation was not found for predicting the age 2.2 fish. Age 2.2 fish average 49% of an annual run (median 49%; range 22-70%). However, the 1993 forecasted number of age 2.2 fish amounts to about 48% of the total 1993 run forecast and the age 2.2 estimated number of fish is nearly identical to the eight year average. Therefore, there should not be too much error risk in the age 2.2 predication.

If the 1993 run materializes as forecasted, there should be about 15% fewer late run fish than last year, and if the desired escapement of 550 thousand is achieved, about 325 thousand fish should be available for harvest. The 1993 run is expected to be about an even split between two-ocean age (ages 2.2 and 3.2) and three-ocean age (ages 2.3 and 3.3) fish.

APPENDIX F

Emergency Orders

Appendix F.1. Summary of emergency orders issued for the Kodiak Management Area, 1993.

E.O. No.	Time/Date		Action Taken
	Issued	Effective	
1	10:00 A.M. 6/07/93	12:00 Noon 6/09/93	<u>Opening</u> for 33 hours 12:00 Noon 6/09 - 9:00 P.M. 6/10 - Alitak Bay District - Northwest Kodiak District <u>except</u> for Kizhuyak Section
2	3:00 P.M. 6/09/93	12:00 Noon 6/10/93	<u>Opening</u> for 9 hours 12:00 Noon 6/10 - 9:00 P.M. 6/10 - Inner and Outer Karluk Sections
3	5:00 P.M. 6/10/93	12:01 A.M. 6/12/93 3:00 P.M. 6/12/93	<u>Opening</u> for 48 hours 12:01 A.M. 6/12 - 12:01 A.M. 6/14 - Cape Igvak Section <u>Opening</u> for 54 hours 3:00 P.M. 6/12 to 9:00 P.M. 6/14 - Outer Ayakulik Section - Inner Ayakulik Section <u>start by flare</u>
4	3:30 P.M. 6/11/93	12:00 Noon 6/12/93	<u>Opening</u> for 57 hours 12:00 Noon 6/12 - 9:00 P.M. 6/14 - Alitak Bay District
5	11:30 A.M. 6/12/93	12:00 Noon 6/14/93 12:00 Noon 6/14/93	<u>Opening</u> for 33 hours 12:00 Noon 6/14 - 9:00 P.M. 6/15 - Eastside Kodiak District - Big River and Outer Kukak Sections - The Afognak District <u>except</u> for the Perenosa Bay and Kitoi Bay Sections <u>Opening</u> for 81 hours 12:00 Noon 6/14 - 9:00 P.M. 6/17 - The Northwest Kodiak District <u>except</u> for the Kizhuyak and Inner Uganik Sections - The Southwest Afognak Section - The Inner and Outer Karluk Sections
6	11:00 A.M. 6/13/93	12:01 A.M. 6/14/93 9:00 P.M. 6/14/93	<u>Extension</u> for 48 hours 12:01 A.M. 6/14 - 12:01 A.M. 6/16 - Cape Igvak Section <u>Extension</u> for 48 hours 9:00 P.M. 6/14 - 9:00 P.M. 6/16 - Alitak Bay District - Inner and Outer Ayakulik Sections.
7	12:00 Noon 6/15/93	9:00 P.M. 6/16/93	<u>Extension</u> for 48 hours 9:00 P.M. 6/16 - 9:00 P.M. 6/18 - Alitak Bay District - Inner and Outer Ayakulik Sections

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
7 (Cont.)		9:00 P.M. 6/17/93	<p>Extension for 24 hours 9:00 P.M. 6/17 - 9:00 P.M. 6/18</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District except for the Inner Uganik and Kizhuyak Sections - The Inner and Outer Karluk Sections
8	3:00 P.M. 6/17/93	9:00 P.M. 6/18/93	<p>Extension for 48 hours 9:00 P.M. 6/18 - 9:00 P.M. 6/20</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District except for the Inner Uganik and Kizhuyak Sections - Inner and Outer Karluk Sections - Inner and Outer Ayakulik Sections
9	11:00 A.M. 6/19/93	9:00 P.M. 6/20/93	<p>Extension for 48 hours 9:00 P.M. 6/20 - 9:00 P.M. 6/22</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District except for the Inner Uganik and Kizhuyak Sections - Inner and Outer Karluk Sections - Inner and Outer Ayakulik Sections
		12:00 Noon 6/21/93	<p>Opening for 33 hours 12:00 Noon 6/21 - 9:00 P.M. 6/22</p> <ul style="list-style-type: none"> - Alitak Bay District - Eastside Kodiak District - Big River and Outer Kukak Sections - Remainder of the Afognak District except for the Perenosa Bay and Kitoi Bay Sections
10	5:00 P.M. 6/21/93	9:00 P.M. 6/22/93	<p>Extension for 48 hours 9:00 P.M. 6/22 - 9:00 P.M. 6/24</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District except for the Inner Uganik and Kizhuyak Sections - Inner and Outer Karluk Sections
11	12:00 Noon 6/22/93	9:00 P.M. 6/24/93	<p>Extension for 72 hours 9:00 P.M. 6/24 - 9:00 P.M. 6/27</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District except for the Inner Uganik and Kizhuyak Sections - Inner and Outer Karluk Sections
12	12:15 P.M. 6/24/93	12:00 Noon 6/25/93	<p>Opening for 33 hours 12:00 Noon 6/25 - 9:00 P.M. 6/28</p> <ul style="list-style-type: none"> - Alitak Bay District

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
12 (Cont.)		12:01 A.M. 6/26/93	- Halibut Bay Section <u>Opening</u> for 48 hours 12:01 A.M. 6/26 - 12:01 A.M. 6/28 - Cape Igvak Section
13	10:30 A.M. 6/26/93	9:00 P.M. 6/26/93	<u>Extension</u> for 24 hours 9:00 P.M. 6/26 - 9:00 P.M. 6/27 - Alitak Bay Section
		9:00 P.M. 6/26/93	<u>Extension</u> for 72 hours 9:00 P.M. 6/26 - 9:00 P.M. 6/29 - Halibut Bay Section
		3:00 P.M. 6/27/93	<u>Opening</u> for 54 hours 3:00 P.M. 6/27 - 9:00 P.M. 6/29 - Outer Ayakulik Section - Inner Ayakulik Section start by flare
		9:00 P.M. 6/27/93	<u>Extension</u> until further notice 9:00 P.M. 6/27 - (9:00 P.M. 7/10/93) - Southwest Afognak Section - Northwest Kodiak District <u>except</u> for Kizhuyak Bay, Inner Uganik and Kizhuyak Sections - Inner and Outer Karluk Sections
14	2:25 P.M. 6/28/93	12:00 Noon 6/29/93	<u>Opening</u> until further notice 12:00 Noon 6/29 - (9:00 P.M. 7/10/93) - Southeast Afognak Section
		9:00 P.M. 6/29/93	<u>Extension</u> for 48 hours 9:00 P.M. 6/29 - 9:00 P.M. 7/1 - Halibut Bay Section - Inner and Outer Ayakulik Sections
15	11:00 A.M. 6/30/93	9:00 P.M. 7/01/93	<u>Extension</u> for 48 hours 9:00 P.M. 7/01 - 9:00 P.M. 7/03 - Halibut Bay Section - Inner and Outer Ayakulik Sections
16	4:30 P.M. 7/02/93	9:00 P.M. 7/03/93	<u>Extension</u> for 24 hours 9:00 P.M. 7/03 - 9:00 P.M. 7/04 - Halibut Bay Section - Inner and Outer Ayakulik Sections
17	10:30 A.M. 7/03/93	12:00 Noon 7/04/93	<u>Opening</u> for 57 hours 12:00 Noon 7/04 - 9:00 P.M. 7/06 - Alitak Bay District

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
17 (Cont.)		12:00 Noon 7/06/93	<u>Opening</u> for 105 hours 12:00 Noon 7/06 - 9:00 P.M. 7/10 - Remainder of the Afognak District <u>except</u> for Perenos Bay and Kitoi Bay Sections - Northeast Kodiak District <u>except</u> for Buskin River Section - Eastside Kodiak District
		12:00 Noon 7/06/93	<u>Opening</u> for 57 hours 12:00 Noon 7/06 - 9:00 P.M. 7/08 - Mainland District <u>except</u> for Cape Igvak and Wide Bay Sections
18	3:00 P.M. 7/06/93	9:00 P.M. 7/06/93	<u>Extension</u> for 48 hours 9:00 P.M. 7/06 - 9:00 P.M. 7/08 - Alitak Bay District
19	10:00 A.M. 7/07/93	9:00 P.M. 7/08/93	<u>Extension</u> for 72 hours 9:00 P.M. 7/08 to 9:00 P.M. 7/11 - Alitak Bay District
		12:01 A.M. 7/09/93	<u>Opening</u> for 48 hours 12:01 A.M. 7/09 - 12:01 A.M. 7/11 - Cape Igvak Section
20	11:30 A.M. 7/10/93	5:00 P.M. 7/10/93	<u>Closure</u> 5:00 P.M. 7/10 - Closure of "Seaward Zones" of the Northwest Afognak and Shuyak Islands Sections
		12:01 A.M. 7/11/93	<u>Extension</u> for 48 hours 12:01 A.M. 7/11 - 12:01 A.M. 7/13 - Cape Igvak Section
		9:00 P.M. 7/10/93	<u>Extension</u> for 120 hours 9:00 P.M. 7/10 - 9:00 P.M. 7/15 - Inner Karluk Section
		9:00 P.M. 7/11/93	<u>Extension</u> for 96 hours 9:00 P.M. 7/11 - 9:00 P.M. 7/15 - Alitak Bay District
21	11:00 A.M. 7/11/93	12:00 Noon 7/13/93	<u>Opening</u> for 105 hours 12:00 Noon 7/13 - 9:00 P.M. 7/17 - Northwest Kodiak District - Outer Karluk Section - Eastside Kodiak District - Northeast Kodiak District - The Afognak District <u>except</u> for the "Seaward Zones" of the Shuyak Island and Northwest Afognak Sections and the Kitoi Bay Section

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
21 (Cont.)		12:00 Noon 7/13/93	<p><u>Opening</u> for 57 hours 12:00 Noon 7/13 - 9:00 P.M. 7/15</p> <ul style="list-style-type: none"> - Alinchak Bay, Katmai and Inner Kukak Sections - Dakavak Bay, Outer Kukak Bay, Hallo Bay and Big River Sections <u>except</u> for the "Seaward Zones"
22	11:30 A.M. 7/12/93	12:01 A.M. 7/13/93	<p><u>Extension</u> for 48 hours 12:01 A.M. 7/13 - 12:01 A.M. 7/15</p> <ul style="list-style-type: none"> - Cape Igvak Section
23	10:00 A.M. 7/14/93	1:00 P.M. 7/14/93	<p><u>Closure</u> effective 1:00 P.M. 7/14</p> <ul style="list-style-type: none"> - "Seaward Zone" of the Southwest Afognak Section
		12:01 A.M. 7/15/93	<p><u>Extension</u> for 48 hours 12:01 A.M. 7/15 - 12:01 A.M. 7/17</p> <ul style="list-style-type: none"> - Cape Igvak Section
24	10:45 A.M. 7/18/93	12:00 Noon 7/20/93	<p><u>Opening</u> for 105 hours 12:00 Noon 7/20 - 9:00 P.M. 7/24</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District - Kitoi Bay Section east of the "Jaws" - The Afognak District <u>except</u> for the "Seaward Zones" of the Southwest Afognak, Northwest Afognak and Shuyak Island Sections
		12:00 Noon 7/20/93	<p><u>Opening</u> for 57 hours 12:00 Noon 7/20 - 9:00 P.M. 7/22</p> <ul style="list-style-type: none"> - Alinchak Bay, Katmai and Inner Kukak Sections - Only the "Shoreward Zones" of the Dakavak Bay, Outer Kukak Bay, Hallo Bay and Big River Sections
25	4:00 P.M. 7/23/93	9:00 P.M. 7/24/93	<p><u>Extension</u> until further notice 9:00 P.M. 7/24 - (9:00 P.M. 7/31)</p> <ul style="list-style-type: none"> - Duck Bay Section - Izhut Bay Section - Kitoi Bay Section east of the "Jaws"
26	10:20 A.M. 7/25/93	12:00 Noon 7/27/93	<p><u>Opening</u> for 105 hours 12:00 Noon 7/27 - 9:00 P.M. 7/31</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Alitak Bay District

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
26 (Cont.)			<ul style="list-style-type: none"> - Eastside Kodiak District - Northeast Kodiak District - Remainder of the Afognak District - Cape Igvak, Alinchak Bay, Katmai and Dakavak Bay Sections - Remainder of Kitoi Bay Section
27	3:30 P.M. 7/30/93	9:00 P.M. 7/31/93	<p><u>Extension</u> for 96 hours 9:00 P.M. 7/31 - 9:00 P.M. 8/04</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District - Afognak District including the Kitoi Bay Section - Cape Igvak, Alinchak Bay, Katmai and Dakavak Bay Sections
28	1:30 P.M. 8/03/93	12:00 Noon 8/04/993	<p><u>Opening</u> for 81 hours 12:00 Noon 8/04 - 9:00 P.M. 8/07</p> <ul style="list-style-type: none"> - Wide Bay Section east of 156°20' W. long. <p>9:00 P.M. 8/04/93</p> <p><u>Extension</u> for 72 hours 9:00 P.M. 8/04 - 9:00 P.M. 8/07</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District - Afognak District including the Kitoi Bay Section - Cape Igvak, Alinchak Bay, Katmai and Dakavak Bay Sections
29	2:00 P.M. 8/06/93	9:00 P.M. 8/07/93	<p><u>Extension</u> for 72 hours 9:00 P.M. 8/07 - 9:00 P.M. 8/10</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Eastside Kodiak District - Northeast Kodiak District <u>except</u> for the Buskin River Section - Afognak District including Kitoi Bay Section - Cape Igvak, Alinchak Bay, Katmai and Dakavak Bay Sections

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Appendix F.1. (Page 7 of 11)

E.O. No.	Time/Date		Action Taken
	Issued	Effective	
29 (Cont.)			- Wide Bay Section east of 156°20' W. long.
30	2:45 P.M. 8/09/93	9:00 P.M. 8/10/93	<p>Extension for 48 hours 9:00 P.M. 8/10 - 9:00 P.M. 8/12</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Eastside Kodiak District - Northeast Kodiak District except for the Buskin River Section - Afognak District including the Kitoi Bay Section - The Cape Igvak, Alinchak Bay, Katmai and Dakavak Bay Sections - Wide Bay Section east of 156°20' W. long.
31	12:45 P.M. 8/11/93	12:00 Noon 8/12/93	<p>Opening for 33 hours 12:00 Noon 8/12 - 9:00 P.M. 8/13</p> <ul style="list-style-type: none"> - Cape Alitak and Moser-Olga Bay Sections <p>9:00 P.M. 8/12/93</p> <p>Extension for 8 hours 9:00 P.M. 8/12 - 9:00 P.M. 8/14</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Eastside Kodiak District except for that portion of the Seven Rivers Section north of 56°46' N. lat. - Northeast Kodiak District except for the Buskin River Section - The Afognak District except for the Shuyak Island Section - The Kitoi Bay Section - Cape Igvak, Alinchak and Katmai Sections - Wide Bay Section east of 156°20' W. long.
32	11:00 A.M. 8/13/93	9:00 P.M. 8/14/93	<p>Extension for 45 hours 9:00 P.M. 8/14 - 6:00 P.M. 8/16</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Eastside Kodiak District except for that portion of the Seven Rivers Section north of 56°46' N. lat. - Northeast Kodiak District except for the Buskin River Section

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
32 (Cont.)		9:00 P.M. 8/14/93	<ul style="list-style-type: none"> - Afognak District <u>except</u> for the Shuyak Island Section - Kitoi Bay Section - Cape Igvak, Alinchak Bay and Katmai Sections - Wide Bay Section east of 156°20' W. long. <p><u>Closure</u> of that portion of the Kitoi Bay Section west of the "Jaws"</p>
33	11:30 A.M. 8/15/93	9:00 P.M. 8/15/93	<p><u>Closure</u> of the remainder of the Kitoi Bay Section</p>
		6:00 P.M. 8/16/93	<p><u>Extension</u> for 48 hours 6:00 P.M. 8/16 - 6:00 P.M. 8/18</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Seven Rivers Section south of 56°46' N. lat. - Two Headed Section - Sitkalidak Section <u>except</u> for that portion in Kiliuda Bay north and east of a line from Pivot Point to Pillar Point - Inner Ugak Bay Section - Northeast Kodiak District <u>except</u> for the Buskin River Section - Afognak District <u>except</u> for the Shuyak Island and Kitoi Bay Sections
34	4:45 P.M. 8/17/93	9:00 P.M. 8/17/93	<p><u>Closure</u> at 9:00 P.M. 8/17 of the Duck Bay and Izhut Bay Sections</p>
		6:00 P.M. 8/18/93	<p><u>Extension</u> for 48 hours 6:00 P.M. 8/18 - 6:00 P.M. 8/20</p> <ul style="list-style-type: none"> - Northwest Kodiak District - Humpy-Deadman Section - Seven Rivers Section south of 56°46' N. lat. - Two Headed Section - Sitkalidak Section <u>except</u> for that portion in Kiliuda Bay north and west of a line from Pivot Point to Pillar Point - Inner Ugak Bay Section - Northeast Kodiak District <u>except</u> for the Buskin River Section. - The Afognak District <u>except</u> for the Shuyak Island, Kitoi Bay, Duck Bay and Izhut Bay Sections

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
35	4:30 P.M. 8/19/93	12:00 Noon 8/20/93	<u>Opening</u> for 30 hours 12:00 Noon 8/20 - 6:00 P.M. 8/21 - Duck Bay Section
		12:00 Noon 8/20/93	<u>Opening</u> for 78 hours 12:00 Noon 8/20 - 6:00 P.M. 8/23 - Seven River Section north of 56°46' N. lat.
		6:00 P.M. 8/20/93	<u>Extension</u> for 72 hours 6:00 P.M. 8/20 - 6:00 P.M. 8/23 - Terror Bay, Inner Uganik Bay and Uyak Bay Sections - Humpy-Deadman Section - Seven Rivers Section south of 56°46' N. lat. - Two Headed Section - Sitkalidak Section <u>except</u> for that portion in Kiliuda Bay north and west of a line from Pillar Point to Pivot Point - Inner Ugak Bay Section - Northeast Kodiak District <u>except</u> for the Buskin River Section - Southeast Afognak Section
36	3:45 P.M. 8/20/93	12:00 Noon 8/21/93	<u>Opening</u> for 54 hours 12:00 Noon 8/21 - 6:00 P.M. 8/23 - Izhut Bay Section - Kitoi Bay Section east of the "Jaws"
		6:00 P.M. 8/21/93	<u>Extension</u> for 48 hours 6:00 P.M. 8/21 - 6:00 P.M. 8/23 - Duck Bay Section
37	11:15 A.M. 8/22/93	6:00 P.M. 8/23/93	<u>Extension</u> for 48 hours 6:00 P.M. 8/23 - 6:00 P.M. 8/25 - Izhut Bay and Duck Bay Sections - Kitoi Bay Section east of the "Jaws" - Terror Bay, Inner Uganik Bay and Uyak Bay Sections - Humpy-Deadman Section - Eastside Kodiak District <u>except</u> for the Outer Ugak Bay Section and that portion in Kiliuda Bay north and west of a line from Pivot Point to Pillar Point - Northeast Kodiak District <u>except</u> for the Buskin River Section

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Appendix F.1. (Page 10 of 11)

E.O. No.	Time/Date		Action Taken
	Issued	Effective	
38	4:45 P.M. 8/23/93	6:00 P.M. 8/24/93	<p><u>Opening</u> for 3 hours start by flare 6:00 P.M. 8/24 - 9:00 P.M. 8/24</p> <ul style="list-style-type: none"> - Kitoi Bay Section west of the "Jaws"
39	3:30 P.M. 8/24/93	6:00 P.M. 8/25/93	<p><u>Extension</u> for 48 hours 6:00 P.M. 8/25 - 6:00 P.M. 8/27</p> <ul style="list-style-type: none"> - Izhut Bay Section - Kitoi Bay Section east of the "Jaws: - Terror Bay, Inner Uganik Bay and Uyak Bay Sections - Humpy-Deadman Section - Eastside Kodiak District <u>except</u> for the Outer Ugak Bay Section and that portion in Kiliuda Bay north and west of a line from Pivot Point to Pillar Point - Northeast Kodiak District <u>except</u> for the Buskin River Section
40	3:00 P.M. 8/26/93	6:00 P.M. 8/27/93	<p><u>Extension</u> for 48 hours 6:00 P.M. 8/27 - 6:00 P.M. 8/29</p> <ul style="list-style-type: none"> - Izhut Bay Section - Kitoi Bay Section east of the "Jaws" - Terror Bay, Inner Uganik Bay and Uyak Bay Sections
41	10:00 A.M. 8/29/93	6:00 P.M. 8/29/93	<p><u>Extension</u> for 96 hours 6:00 P.M. 8/29 - 6:00 P.M. 9/02</p> <ul style="list-style-type: none"> - Izhut Bay Section - Terror Bay, Inner Uganik Bay and Uyak Bay Sections - Northeast Kodiak District <u>except</u> for the Buskin River Section
		12:00 Noon 8/31/93	<p><u>Opening</u> for 54 hours 12:00 Noon 8/31 - 6:00 P.M. 9/02</p> <ul style="list-style-type: none"> - Zachar Bay, Spiridon Bay, Sheratin, Kizhuyak, and Anton Larsen Sections - Raspberry Strait, Northwest Afognak, Shuyak Island and Perenosa Bay Sections - Northeast Kodiak District <u>except</u> for the Buskin River Section - Eastside Kodiak District <u>except</u> for that portion of the Outer Ugak Section west of 152°30' W. long. and that portion in Kiliuda Bay north and west of a line between Pillar Point and Pivot Point - Mainland District <u>except</u> for the Dakavak Bay, Inner Kukak Bay and Outer Kukak Bay Sections

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E.O. No.	Time/Date		Action Taken
	Issued	Effective	
42	1:30 P.M. 9/01/93	6:00 P.M. 9/02/93	<p><u>Extension</u> until further notice 6:00 P.M. 9/02 - 6:00 P.M. 10/31</p> <ul style="list-style-type: none"> - Shuyak Island and Perenosa Bay Sections - Mainland District <u>except</u> for Inner Kukak Bay, Outer Kukak Bay and Dakavak Bay Sections
		12:00 Noon 9/03/93	<p><u>Opening</u> until further notice 12:00 Noon 9/03 - 6:00 P.M. 10/31</p> <ul style="list-style-type: none"> - Alitak Bay District

APPENDIX G

**Cape Igvak Salmon Management Plan
(5AAC 18.360)**

Appendix G.1. Narrative account of the Cape Igvak sockeye salmon fishery in the Kodiak Management Area, 1993.

Introduction

Beginning in 1964 a purse seine fishery developed along the capes in the Cape Igvak Section of the Mainland District (Appendix A.8). Tagging studies and stock identification studies using average weight and age composition conducted in 1968 and 1969 concluded that up to 80 percent of the sockeye salmon harvested in the Cape Igvak Section were of Chignik origin (Simon et al. 1969). The issue of interception of Chignik bound sockeye salmon in the Cape Igvak Section came before the Board of Fisheries several times over the next ten years, and management of this section was modified many times (Appendix G.2). From 1974 through 1978 this area was managed for "day for day" equal fishing time with Chignik. In 1978 a specific management plan was adopted by the BOF (Appendix C.1. page 6, and Appendix G.3.).

The Cape Igvak Salmon Management Plan covers the time period from June 5 through July 25 for fishing activity in the Cape Igvak Section of the Mainland District. This management plan allows the KMA fleet to harvest up to 15 % of the Chignik sockeye salmon harvest, and stipulates strict allocative and biological requirements which must be met prior to any fisheries occurring (Appendix G.3.). Since this plan was adopted, the catch of Chignik bound sockeye salmon from the Cape Igvak Section has ranged from 0.0 to 15.9 %, and has averaged 10.7 %, of the total Chignik sockeye salmon harvest (Appendix G.4.); only 3 times (1983, 1987 and 1993) has the harvest met the 15% allocation level (Appendix G.5.).

1993 Cape Igvak Salmon Fishery

Initial sockeye salmon escapements into the Chignik River system were good. By June 10 the escapement had exceeded 60,000 sockeye, which is the desired goal through June 12. Additionally, test fishery results from Chignik Lagoon indicated that perhaps 60,000 more sockeye were present in the lagoon. With this information, the Chignik Management Area Biologist was able to predict that the early run to Chignik was developing as forecasted, and a commercial fishing period was announced for Chignik. The Kodiak Area Management Biologist was then able to announce fishing time in the Cape Igvak Section. This initial fishing period began at 12:01 AM on June 12, and was scheduled to remain open until 12:01 AM June 14 (48 hrs).

Chignik fishermen chose to strike for higher sockeye prices, so no salmon harvest occurred in the Chignik Management Area. The escapement through the Chignik weir continued, and was much higher than desired, averaging 20,000 to 30,000 per day through mid June. Fish excess to the projected escapements were counted as foregone harvest in order to calculate the Cape Igvak percentage (in compliance with 5 AAC 39.200(b), Application of Fishery Management Plans). Early indications in the Chignik Area were that the first run to the Chignik system (Black Lake stocks) was as strong as expected. By June 12 an estimated 90,000 sockeye should have been harvested in the Chignik Area. The Cape Igvak harvest for the first 24 hours was

approximately 8,000 sockeye, or less than 10% of the total Chignik early run to date. To allow the Igvak percentage to increase a 48 hour extension in fishing time was announced, to run through 12:01 AM June 16.

On June 15 a different assessment of the early Chignik sockeye run was made. The foregone Chignik sockeye salmon harvest (excess escapement) was estimated at 148,000 sockeye through June 15. For the Cape Igvak fishery through June 16, some 32 vessels harvested an estimated 63,000 Chignik bound sockeye, which put the Igvak allocation above 20%. However, it was also then decided that the early run sockeye return in Chignik may not be developing as forecasted. Escapements into the Chignik system, while good and ahead of schedule, were not as strong as expected considering there was no local fishing pressure due to the strike. Section (b) of the Cape Igvak Salmon Management Plan (5 AAC 18.360.) states that if the first run fails to develop as predicted the Cape Igvak Section fishery will be curtailed until a minimum of 300,000 sockeye are harvested in the Chignik Area. The Cape Igvak Section was allowed to close June 16, with a "wait and see" attitude being adopted by the ADF&G Regional and Chignik biologists. Escapement rates were not far enough ahead to justify further fishing time in the Cape Igvak Section. It was announced that there would be no further fishing allowed in the Cape Igvak Section until the minimum harvest requirements for the Chignik area permit holders was assured.

Chignik fishers began commercial salmon fishing June 19. The cumulative sockeye escapement for Chignik through June 23 was near the minimum escapement goal of 350,000. By June 24, using incomplete initial harvest estimates, it appeared that approximately 352,000 sockeye salmon had been harvested in the Chignik Area. Approximately 74,000 Chignik bound sockeye had been previously harvested in the Cape Igvak Section, June 12 to 16. Combined with escapement into the Chignik system and Chignik bound sockeye harvested in other areas¹, the Cape Igvak percentage was calculated at approximately 14.5%. The Chignik and Regional Management Biologists made a determination that the early run was coming in as strong as forecasted, but was significantly late. Therefore another commercial salmon fishing period was allowed in the Cape Igvak Section, with a 48 hour fishing period beginning at 12:01 AM June 26. Through June 28, 55 vessels harvested an additional 69,500 chignik bound sockeye salmon, bringing the cumulative Igvak catch to 142,500, or approximately 18%. In accordance with the Cape Igvak Management Plan, the Igvak fishery was then closed until at least July 9, pending evaluation of the late run of Chignik system sockeye salmon.

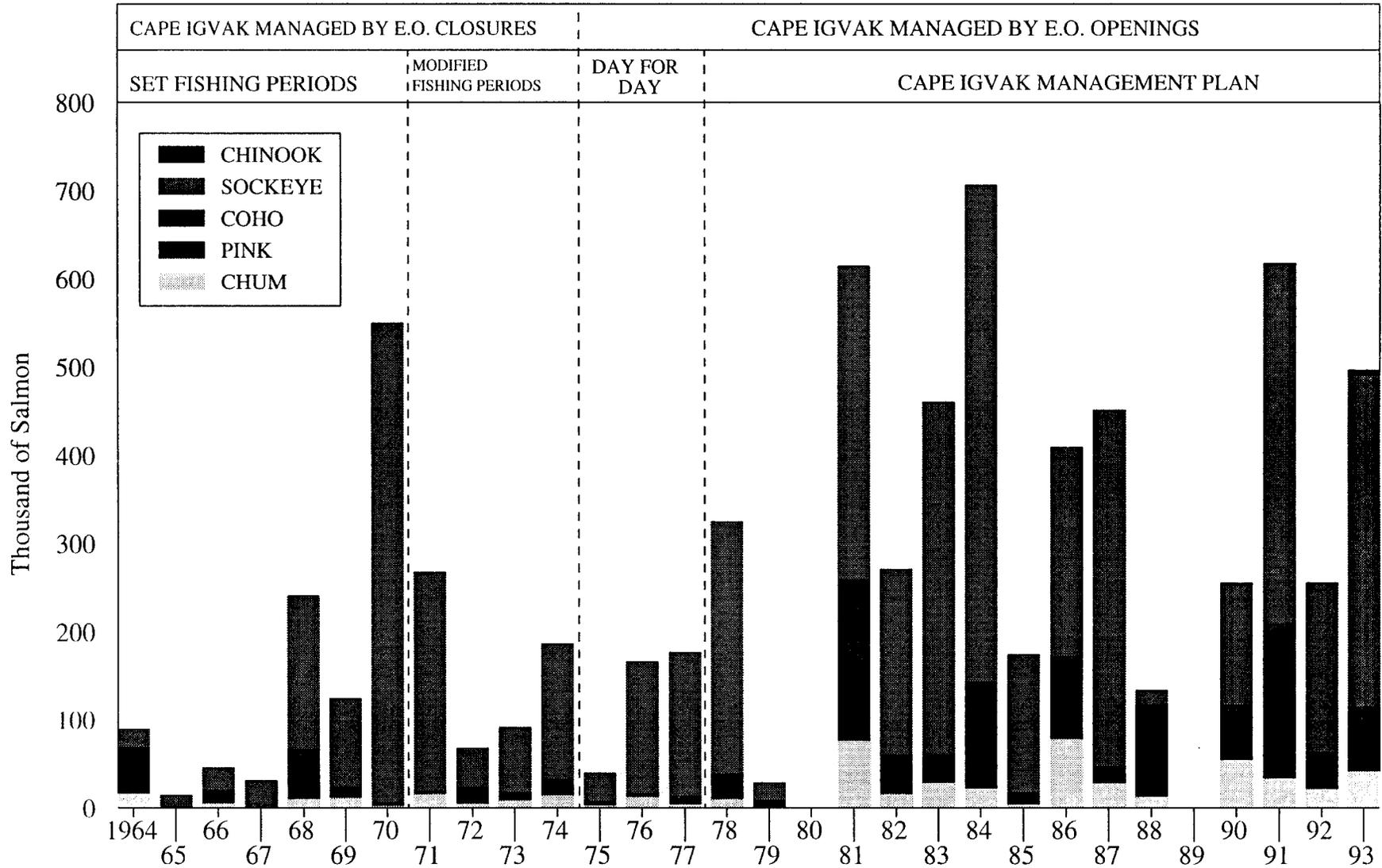
By July 9 the Chignik Area and Regional Management Biologists had determined that the second run of sockeye to Chignik was coming in at least as strong as forecasted. Total escapement to date was estimated at 435,198 sockeye, with the late run total at 66,398 sockeye salmon. The approximate harvest in the Chignik Area was over 836,000 sockeye, which exceeded the minimum harvest requirement of 600,000 required by the management plan. The cumulative harvest of Chignik bound sockeye from all areas was approximately 1,033,000. The cumulative harvest from the Cape Igvak Section was approximately 142,450, only about 13.8% of the total Chignik salmon catch to date. Additional fishing was allowed in the Cape Igvak Section

¹ Chignik bound sockeye salmon are also harvested in the Stepovak area of the Alaska Peninsula Management Area, in accordance with the regulatory Southeastern District Salmon Management Plan, 5 AAC 09.360.

beginning at 12:01 AM on July 9. The Cape Igvak fishery was extended 3 times, continuing until 12:01 AM July 17. Over 40 vessels participated. At that time the Cape Igvak harvest totaled 280,290 sockeye, which was 16.5% of the total Chignik sockeye catch. The entire Chignik Area was closed at that time to allow an increase in the daily escapement rate of second run fish. The Cape Igvak Section was also allowed to close.

Despite the fact that commercial fishing time was later allowed in the Chignik Management Area, no additional fishing periods occurred in the Cape Igvak Section until after July 25. Through July 25, one hundred thirty three (133) purse seine permit holders participated in harvesting 375,100 sockeye, 5,700 coho, 68,400 pink, 42,200 chum, and 5,600 chinook salmon (Appendix G.6. and Appendix P.). The estimated percent harvest of Chignik bound sockeye from the Cape Igvak Section was 15.6 percent (Appendix G.4.).

HISTORICAL COMMERCIAL SALMON HARVEST (1964-1993) CAPE IGVAK & WIDE BAY SECTION FOR PERIOD (JUNE 1-JULY 25)



Appendix G.2. Commercial salmon harvest, by species, and management strategy in the Cape Igvak Section of the Kodiak Management Area, 1964 - 1993.

**BIOLOGICAL AND ALLOCATIVE CRITERIA FOR MANAGING THE CAPE IGVAK FISHERY ON
CHIGNIK BOUND SOCKEYE**

BIOLOGICAL REQUIREMENTS			ALLOCATIVE REQUIREMENTS		
REGULATION 5AAC 18.360	ESCAPEMENT NEEDS		REGULATION 5AAC 18.360	CHIGNIK MINIMUM HARVEST	IGVAK %
	CHIGNIK (EARLY RUN)	CHIGNIK (LATE RUN)			
(a) (b) (c)	THROUGH 6/30 350,000-400,000	-	(a)	EXPECTATIONS OF LESS THAN 600,000	CLOSED
-	-	-	(b)	EXPECTATIONS OF 600,000 ARE IN DOUBT	CLOSED
(a) (b) (c)	-	THROUGH 7/30 195,000-200,000	(c)	EXPECTATIONS OF 600,000 OCCUR	OPEN TO ACHEIVE 15%
-	-	-	(d)	CHIGNIK SALMON % INTERCEPTION CALCULATIONS	80% OF CATCH AT IGVAK ARE CHIGNIK SOCKEYE
-	-	-	(e)	ALLOCATION PERIOD 600,000	6/5 - 7/25 % NOT APPLICABLE
(f)	FROM JUNE 26 - JULY 9 CAPE IGVAK SECTION CLOSED OR SEVERLY LIMITED UNTIL CHIGNIK LAKE RUN EVALUATED		-	-	-
-	-	-	(g)	-	ONE DAY ADVANCE NOTICE
	400,000	250,000		600,000 MINIMUM	15 %

MANAGEMENT CHRONOLOGY FOR CHIGNIK BOUND SOCKEYE AND KODIAK SALMON

CLOSED	CHIGNIK SOCKEYE STOCKS (EARLY RUN)	CLOSED OR SEVERLY LIMITED	CHIGNIK SOCKEYE STOCKS (LATE RUN)	KODIAK BOUND STOCKS AND/OR CHIGNIK LATE RUN STOCKS
6/1	6/5	6/26	7/9	7/25
				9/5

Appendix G.3. Biological and allocative criteria and the management chronology of the Cape Igvak Management Plan for the Kodiak Management Area, 1993

Appendix G.4. Harvest of Chignik bound sockeye salmon in the Chignik, Cape Igvak, and Southeast District Mainland Areas from 1964-1993.

Year	Chignik Area		Cape Igvak ^a		Southeast District Mainland Area ^a		Total
	Catch	Percent	Catch	Percent	Catch	Percent	
1964 ^b	556,890	90.57	14,980	2.44	43,021	7.00	614,891
1965	599,553	89.94	11,021	1.65	56,020	8.40	666,594
1966	219,794	87.99	18,003	7.21	12,011	4.81	249,808
1967	462,000	91.48	23,014	4.56	20,021	3.96	505,035
1968	977,382	82.53	135,951	11.48	70,959	5.99	1,184,292
1969	394,135	78.96	97,982	19.63	7,013	1.41	499,130
1970	1,325,734	72.51	434,394	23.76	68,181	3.73	1,828,309
1971	1,016,136	80.33	197,614	15.62	51,272	4.05	1,265,022
1972	378,218	87.99	33,865	7.88	17,752	4.13	429,815

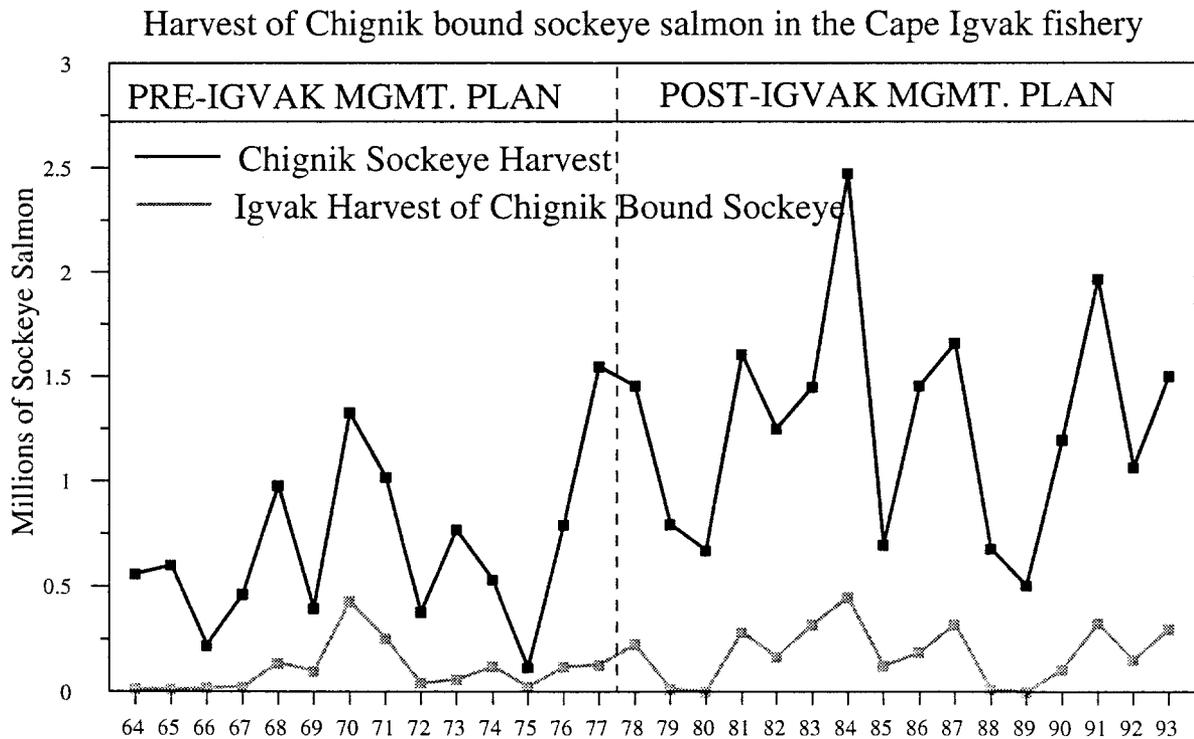
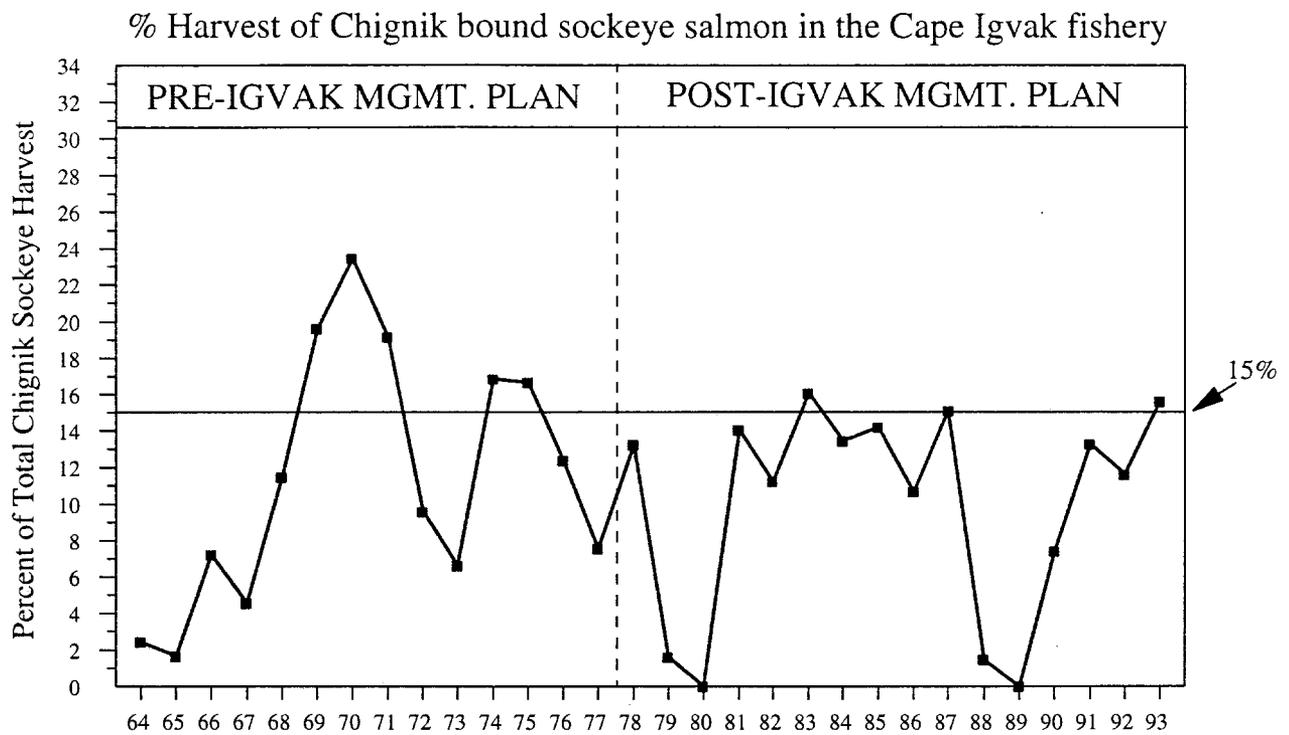
1964-72 catch and percentage figures are total for the entire season. Catch figures and percentages after 1972 are only through July 25.

1973 ^c	769,258	89.01	57,348	6.64	37,613	4.35	864,219
1974	530,278	73.97	122,071	17.03	64,564	9.01	716,913
1975	115,984	81.78	23,635	16.67	2,205	1.55	141,824
1976	792,024	83.08	117,926	12.37	43,356	4.55	953,306
1977	1,547,285	90.61	128,852	7.55	31,498	1.84	1,707,635
1978 ^{d, e}	1,454,389	85.38	227,014	13.33	21,952	1.29	1,703,335
1979 ^f	794,504	91.98	13,950	1.61	55,352	6.41	863,806
1980	670,001	91.33	32	0.00	63,570	8.67	733,603
1981	1,606,300	79.88	282,727	14.06	121,870	6.06	2,010,897
1982	1,250,768	84.46	167,401	11.30	62,767	4.24	1,480,936
1983	1,450,832	72.68	318,048	15.93	227,392	11.39	1,996,272
1984	2,474,405	73.93	449,372	13.43	423,068	12.64	3,346,845
1985 ^g	696,169	79.91	123,627	14.19	51,421	5.90	871,217
1986	1,456,729	82.64	188,017	10.67	118,006	6.69	1,762,752
1987	1,659,915	77.98	321,746	15.12	146,886	6.90	2,128,547
1988	678,912	95.70	11,218	1.58	19,320	2.72	709,450
1989	502,477	99.12	0	0.00	4,485	0.88	506,962
1990	1,211,097	83.67	107,706	7.44	128,599	8.88	1,447,402
1991 ^h	1,966,986	80.48	324,329	13.27	152,714	6.25	2,444,029
1992 ⁱ	1,066,732	81.25	152,358	11.60	93,845	7.15	1,312,935
1993	1,500,459	77.78	300,055	15.55	128,536	6.66	1,929,050

^a The Cape Igvak and Southeast District Mainland figures represent 80% of the total sockeye catches for those areas as it is estimated that roughly 80% of the sockeye caught in the Cape Igvak section and Southeast District Mainland Area are destined for Chignik.

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- b The data from 1964 - 1972 are based on total yearly catches. Prior to 1973, Cape Igvak and Southeast District Mainland fisheries were set by regulation to weekly fishing periods, usually 5 days per week. Time modifications were implemented when poor escapements occurred at Chignik.
- c During 1973 through 1977 all three fisheries were managed on a day by day basis.
- d From 1978 - 1993, the Cape Igvak Fishery Management Plan allocated 15 percent of the total sockeye catch destined for Chignik.
- e During 1978, seining prior to July 11 was disallowed in the Southeast District Mainland. The set gillnet fishery was allowed to fish 3 days per week through July 10 after which the fishery was managed on the basis of local stocks.
- f During 1979-1984 and prior to July 11, fishing was allowed 5 days per week in the Southeast District Mainland Area (including Beaver Bay) with an estimated ceiling of 60,000 sockeye destined for Chignik. If the Chignik Area sockeye catch was 1,000,000 or more before July 11, the 60,000 ceiling was to be dropped.
- g Beginning in 1985, Southeast District Mainland Area was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye catch through July 25. After July 25, Southeast District Mainland Area is managed on a local stock basis. The allocation changed back to an even 6 percent beginning in 1988. Seining is still not allowed prior to July 11.
- h Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' boycott (Jun 23 - Jul 4).
- i Review of Orzinski Lake historical and current escapement records led the Board to redefine the Southeast District Mainland Management Plan. Beginning in 1992, the Southeast District Mainland fishery exclusive of the Orzinkie Bay was placed on an allocation of 7.0 percent of the total estimated chignik sockeye catch through July 25.



Appendix G.5. Impact of the Cape Igvak Management Plan on sockeye salmon harvests of the Kodiak Management Area, 1969 - 1993.

Appendix G.6. Commercial salmon harvest in the Cape Igvak and Wide Bay Sections of the Kodiak Management Area, June 1-July 25, 1964-1993.

Year	Chinook	Sockeye	Coho	Pink	Chum
1964	2	18,941	5	52,704	17,484
65	3	13,566	0	608	482
66	3	23,359	0	15,693	5,960
67	230	28,606	0	603	1,414
68	20	173,038	14	56,698	11,132
69	142	98,327	2	13,575	12,240
70	31	542,991	0	4,051	3,230
71	106	246,989	15	3,680	17,119
72	3	42,230	0	19,201	5,781
73	141	71,685	18	9,734	9,156
74	40	152,589	318	18,326	15,227
75	1	29,544	95	5,835	3,690
76	121	147,407	19	5,234	13,055
77	28	161,065	5	10,641	4,589
78	449	283,767	1,134	28,625	10,717
79	2	17,437	365	9,212	1,303
80	0	0	0	0	0
81	176	353,409	562	183,940	77,088
82	83	209,251	79	44,542	16,852
83	476	397,560	4,146	28,867	29,280
84	403	561,715	1,133	120,847	23,023
85	258	154,534	875	13,532	4,740
86	212	235,021	3,645	91,564	79,014
87	457	402,183	1,012	18,930	28,859
88	217	14,022	3,287	102,274	13,767
89	0	0	0	0	0
90	2,556	134,632	6,789	57,043	54,857
91	1,377	405,411	7,884	169,354	34,120
92	975	190,448	1,684	40,500	22,461
93	5,649	375,069	5,672	68,362	42,209

- a There was no harvest in 1980 due to a weak return to Chignik and a strike by Kodiak fishers.
- b There was no harvest in 1989 due to a closure of commercial fisheries because of the presence of oil from the M/V Exxon Valdez spill.

APPENDIX H

**Alitak Bay District Salmon Management Plan
(5AAC 18.361)**

INTRODUCTION

The salmon fisheries of the Alitak Bay area (Appendix A.4) are some of the oldest in the KMA. Sockeye salmon bound for Upper Station (Olga Lakes) were targeted as early as 1880, and the first cannery was built in this area in 1889. As competition increased, sockeye salmon stocks declined, and pink salmon made up a substantial portion of the harvest from this district after 1924. With Alaska statehood came greater control over the fishery to conserve and rebuild salmon stocks. Sockeye salmon were introduced into the previously barren Frazer Lake beginning in 1951 (this introduction was successful, and since the early 1970's has been self sustaining).

The Alitak Bay District fishery is unique in the KMA, for the gear groups are segregated. Set gillnets are allowed only in the inside waters of the Moser-Olga Bay Section, while seine gear is limited to the outer waters of the Cape Alitak and Humpy-Deadman Sections (Appendix A.4). Prior to the mid 1980's various strategies were applied in the Alitak Bay District to conserve and build the sockeye salmon stocks returning to the Frazer, Akalura, and Upper Station systems, while offering some protection to local pink, chum, and coho salmon stocks. In 1987 the existing harvest strategy was formalized into a regulatory management plan, and was adopted by the BOF (Appendix C, pages 6 and 7). This plan details the key species and targeted stocks which are managed for in each section of the district throughout the fishing season (Appendix H.2.). The stated intent of this plan is that salmon be harvested in the "traditional" fisheries located in the Cape Alitak, Humpy-Deadman, and Moser-Olga Bay Sections (Appendices H.3. and H.4.).

1993 Alitak Bay District Fisheries

"Early Run"

The Alitak Bay District Salmon Management Plan (5AAC 18.361.) states that commercial salmon fishing must be managed during the period June 9 through July 15 based on sockeye salmon returns to the Frazer system, and that the Cape Alitak, Moser-Olga Bay, and Humpy-Deadman Sections are managed simultaneously, with equivalent fishing time between these three sections, during that time period. In 1993, the preliminary forecast for the Frazer system was for a below average return of 430,000 sockeye salmon (Appendix E.5).

The 1993 Kodiak Area Commercial Salmon Fishery Harvest Strategy (R.I.R. 4K93-21) indicated that the first fishing period for these sections would be a 33 hour commercial "test" fishery beginning on June 9. This is consistent with past practices; in the Alitak Bay District a commercial fishery has occurred annually on June 9 since 1984. The harvest during this fishery is used as an indicator of the actual return strength of the Frazer sockeye stock and the Upper

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Station early run sockeye stock. Additionally, an ADF&G test fishery project is conducted in Chip Cove (near the Olga Narrows leading from Moser to Olga Bays). A 50 fathom gillnet is fished in a set location for a set length of time at certain tide stages each day. Results of this catch are extrapolated to predict the number of sockeye entering the upper bays, and to determine the stock of origin.

The June 9 fishery went well, resulting in the second highest sockeye salmon harvest ever for this date. In addition, the test fishery projected that 100,000 sockeye salmon had entered Olga Bay through June 10. Combined, this information indicated that the Frazer sockeye run was both earlier and stronger than the preseason projection. To insure that sockeye salmon in excess of escapement goals were taken in traditional areas, a 2 1/2 day fishing period was announced beginning June 12. Interim sockeye escapement goals for the Frazer Lake system (through the Dog Salmon weir) were being exceeded (Figure 19), and catch rates in the Alitak Bay District indicated better than expected returns. The commercial salmon fishery was extended twice, through June 18 (4 additional days). At that time, escapement rates had slowed and few fish were present in the closed water sanctuary at the river mouth (the "flats"). The fishery was allowed to close so a pulse of escapement could bypass the fishing grounds.

Through June 24, escapement past the Dog Salmon weir totaled 69,905 sockeye salmon. The interim escapement goal is 48,940 for this same time period. The ADF&G crew estimated there could be an additional 8,000 to 10,000 fish in the creek mouths, and in the lower part of the creeks. The ADF&G Chip Cove test net catches had been good. Data from the test fishery indicated a surplus of sockeye were present in Olga Bay. By June 25 additional fishing time was necessary and a 33 hour fishing period was allowed. Preliminary catch figures from the first half day of this fishing period estimated that approximately 33,000 salmon were harvested. This is a strong catch, and indicated that quite a number of salmon continued to move into the district. To insure that sockeye in excess of escapement goals were taken in traditional areas the fishery was extended an additional 24 hours.

The fishery was allowed to close June 27, and remained closed for 6 days. By July 2, escapement past the ADF&G Dog Salmon weir totaled 89,068 sockeye salmon. The interim escapement goal for that date ranges from 92,000 to 131,000, but the ADF&G crew estimated there could be an additional 20-25,000 sockeye in the mouth and in the lower parts of the river. During this closed period the ADF&G test fishery at Chip Cove indicated a strong movement of sockeye into Olga Bay. A 2 1/2 day fishing period began July 4.

Escapement into the Dog Salmon River remained strong, at or near the desired level and test fish catches continued to indicate good fish movement into the upper bay. The fishery was extended three times, through July 15. By that date the escapement into the Frazer system was above the

minimum escapement goal (Figure 19), and the harvest to date was approximately 710,000 salmon, split almost evenly between the outer, seine only, sections (Cape Alitak and Humpy-Deadman) and the inner, gillnet only, areas (Moser-Olga Bay) (Appendices H.3. and H.4., and Appendix P).

"Late Run"

The Alitak Bay District Salmon Management Plan (5AAC 18.361.) dictates that from July 16 through August 9 commercial salmon fishing must be managed in the Cape Alitak and Moser-Olga Bay Sections based on the pink salmon return to the Frazer system, and that the Humpy-Deadman Section be managed based on the strength of returns to systems within that section (Appendix H.2.). The forecasted harvest for the Alitak Bay District was 2.9 million pink salmon (Appendix D.1.).

All three sections opened July 20, in conjunction with the third fishing period of the "general" pink salmon fishery for the majority of the Kodiak Area (for information on the general pink salmon fishery see Table 16 and Appendix K). It was expected that during this fishing period both harvest data and early escapement and build-up information would give an initial indication of run strength to the pink salmon systems. Aerial surveys reveal strong build-ups of pink salmon in all systems for this early part of the pink run, so a 4 1/2 day fishing period was allowed. Prior to this opening incidental pink salmon harvests had been good, and the escapement into Dog Salmon was about 30,000 pink salmon, with an estimated 20,000 to 40,000 built up on the flats (the escapement goal is 60,000 to 180,000 pink salmon). Catches were strong, with over 306,000 fish taken during this period. The fishery was allowed to close, to permit a pulse of fish for escapement to pass the fishery.

The Alitak Bay District opened for another 4 1/2 day period on July 27. This tied in with the fourth fishing period of the general pink salmon fishery. Catches were again strong, and escapements into the Dog Salmon (Frazer) system and into the Humpy-Deadman systems were very good. It was felt that the pink run was coming in much stronger than forecasted so fishing time was extended an additional 4 days, then extended again three additional days.

On August 7 an additional 3 day extension in fishing time was allowed for the majority of the Kodiak Area, due to the better than forecasted return of pink salmon. This included the Humpy-Deadman Section, however the Cape Alitak and Moser-Olga Bay Sections were allowed to close. In accordance with the Alitak Bay District Management Plan, after August 9 the Cape Alitak and Moser-Olga Bay Sections must be managed based on the late sockeye salmon returning to Upper Station (Appendix H.2.). The forecast for late run Upper Station called for a harvestable surplus of approximately 410,000 sockeye salmon (Appendix D.7.). The harvest rates had been

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increasing on late run sockeye bound to Olga Lakes (Upper Station). Escapement of late run sockeye through the Upper Station weir totaled 35,475 fish through August 5, with the interim escapement goal being 44,000 fish for this same date (Figure 20). These management units were closed to allow late run sockeye salmon to reach closed water sanctuaries and help meet escapement requirements.

Pink salmon returns to rivers within the Humpy-Deadman Section continued to be excellent and commercial salmon fishing in that section was extended 9 more times, through August 27. In fact escapement requirements were met in the Humpy River by August 20, and fishing was opened to the stream terminus.

The Cape Alitak and Moser-Olga Bay Sections reopened on August 12. The escapement of late run sockeye through the ADF&G Upper Station weir totaled 47,073 fish through August 10, with the escapement goal at 62,000 fish for this same date (Figure 20). The Upper Station weir crew reported an estimate of 20,000 sockeye off the creek mouth with 5,000 sockeye through the weir by 1:00 P.M. on August 11. This information seemed to indicate that the late run was at or above the escapement goal. However, initial catch reports from the Cape Alitak and Moser-Olga Bay Sections indicated a substantial drop off of the late run sockeye bound to Olga Lakes. It was announced that no additional fishing time in these two sections would be allowed until the late run sockeye escapement goal for the Olga Lakes was assured.

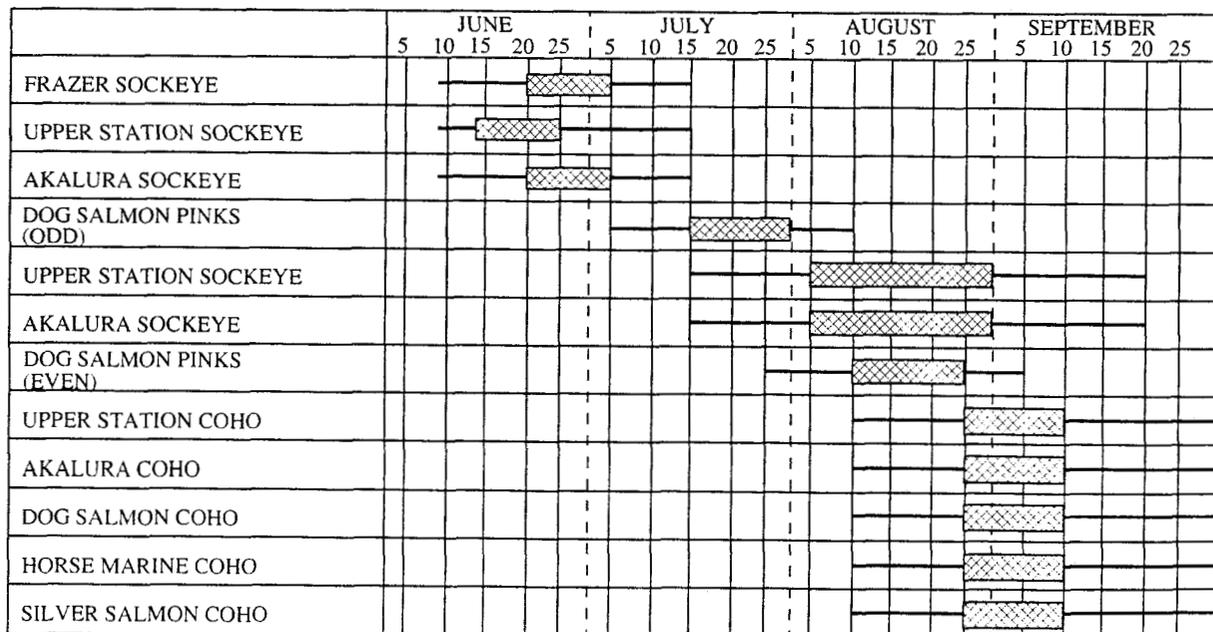
After August 25, management in the Alitak Bay District switches again, this time toward local coho production, with concern for late sockeye also influencing Cape Alitak and Moser-Olga Bay Sections (Appendix H.2.). By September 1 the late sockeye escapement at Upper Station had passed the low end of the escapement goal range and appeared to be headed toward the upper goal. Coho salmon escapements into Dog Salmon, Akalura, and Upper Station were excellent. Fishing time was warranted in the entire Alitak Bay District, to harvest salmon in excess of escapement needs beginning September 3 and remained open for the remainder of the salmon season.

In total 115 purse seine permit holders fished in the Alitak Bay District fisheries, and harvested approximately 1650 chinook, 474,100 sockeye, 3,257,500 pink, 39,100 chum, and 11,600 coho salmon. Also 76 gill net permit holders fished in the Alitak Bay District, and harvested approximately 180 chinook, 524,700 sockeye, 207,900 pink, 14,500 chum, and 7,700 coho salmon (Appendices H.3 and H.4., and Appendix P).

ALITAK BAY DISTRICT MANAGEMENT PLAN

CAPE ALITAK SECTION (SEINE)	CLOSED	XXXXXX	FRAZER SOCKEYE (AGGRESSIVE MANAGEMENT STRATEGY)	FRAZER SOCKEYE (CONSERVATIVE MANAGEMENT STRATEGY)	ODD YEAR CYCLE FRAZER PINK SALMON	ODD YEAR CYCLE UP.STATION SOCKEYE	ALL ALITAK DISTRICT COHO SYSTEMS		
					EVEN YEAR CYCLE UP.STATION SOCKEYE (LATE RUN)	EVEN YEAR CYCLE UP.STATION SOCKEYE & FRAZER PINK SALMON			
MOSER/OLGA BAY SECTION (GILLNET) (TRADITIONAL)	CLOSED	XXXXXX	FRAZER SOCKEYE (AGGRESSIVE MANAGEMENT STRATEGY)	FRAZER SOCKEYE (CONSERVATIVE MANAGEMENT STRATEGY)	ODD YEAR CYCLE FRAZER PINK SALMON	ODD YEAR CYCLE UP.STATION SOCKEYE	ALL OLGA BAY COHO SYSTEMS		
					EVEN YEAR CYCLE UP.STATION SOCKEYE (LATE RUN)	EVEN YEAR CYCLE UP.STATION SOCKEYE & FRAZER PINK SALMON			
OUTER UPPER & INNER UPPER STATION (GILLNET) (NON-TRADITIONAL)	CLOSED	CLOSED	UPPER STATION SOCKEYE (EARLY RUN)		UPPER STATION SOCKEYE (LATE RUN)		UPPER STATION COHO		
						UP. STATION SOCK & COHO			
OUTER AKALURA & IN. AKALURA SECTIONS (GILLNET) (NON-TRADITIONAL)	CLOSED	CLOSED	AKALURA SOCKEYE (EARLY RUN)		AKALURA SOCKEYE (LATE RUN)		AKALURA COHO		
						AKALURA SOCK & COHO			
DOG SALMON FLATS SECTION (GILLNET) (NON-TRADITIONAL)	CLOSED	CLOSED	FRAZER SOCKEYE (MOP UP FISHERY)		FRAZER PINK SALMON		FRAZER AND HORSE MARINE COHO		
HUMPY/DEADMAN SECTION (SEINE)	CLOSED	XXXXXX	FRAZER SOCKEYE (AGGRESSIVE MANAGEMENT STRATEGY)	FRAZER SOCKEYE (CONSERVATIVE MANAGEMENT STRATEGY)	ALITAK BAY PINK, CHUM, AND COHO				
	6/1	6/9-10	6/24	7/9	7/15	8/9	8/20	8/26	9/25

ALITAK BAY DISTRICT - PRIMARY MANAGEMENT SPECIES BY STREAM BY TIME



Appendix H.2. Primary management species and fishery chronology of the Alitak Bay District Salmon Management Plan for the Kodiak Management Area, 1993.

YEAR	GILLNET ^a									SEINE ^a			TOTAL DISTRICT HARVEST
	MOSER BAY			OLGA BAY			TOTAL ^b			TOTAL ^b			
	PERMIT	HARVEST	%	PERMIT	HARVEST	%	PERMIT	HARVEST	%	PERMIT	HARVEST	%	
1982	63	247,000	52	46	162,700	34	74	409,700	86	104	65,700	14	475,400
1983	67	183,400	40	43	85,900	19	80	269,300	59	157	189,900	41	459,200
1984	61	176,300	47	40	79,900	21	70	256,200	68	70	123,100	32	379,300
1985	70	301,600	43	45	138,700	20	75	440,300	63	117	261,200	37	701,500
1986	67	338,500	27	65	386,500	31	79	725,000	58	146	522,900	42	1,247,900
1987	60	188,300	37	61	133,900	26	73	322,200	63	151	193,200	37	515,400
1988	65	401,800	36	58	251,100	22	81	652,900	58	122	470,500	42	1,123,400
1989 ^c	45	134,000	10	80	1,150,000	90	87	1,284,000	100	1	100	0	1,284,100
1990	73	507,300	35	63	237,300	17	91	744,600	52	156	690,800	48	1,435,400
1991	65	626,000	30	67	571,700	28	86	1,197,700	58	187	864,900	42	2,062,600
1992	65	197,800	38	44	78,700	15	79	276,500	53	140	248,700	47	525,200
1993	64	384,500	39	35	140,200	14	76	524,700	53	115	474,100	47	998,800
AVERAGE 1982-93	65	323,000	35	52	206,000	23	78	529,000	59	133	373,200	41	902,200

a Harvest in number of fish.

b Gillnet harvest is from the Moser-Olga Bay Section; Seine harvest is from the Cape Alitak and Humpy-Deadman Sections.

c 1989 harvest patterns were unusual due to the presence of oil in the Kodiak Management Area from the M/V Exxon Valdez oil spill. 1989 harvest figures were not used to calculate averages.

Appendix H.4. Sockeye salmon harvest and number of permits operating in the Alitak Bay District, by gear type and location of harvest, in the Kodiak Management Area, 1982 - 1993.

APPENDIX I

Westside Kodiak Management Plan (5AAC 18.362)

INTRODUCTION

Commercial salmon fisheries along Kodiak Island's westside (Figure 3, and Appendices A.2. to A.4.) are the oldest in the KMA. Sockeye salmon returning to the Karluk River brought fishers and processors to Kodiak soon after the territory was transferred from the Russians in 1867. The Karluk system is said to have produced more sockeye salmon for its size than any other system in the world (Roppel 1986). In 1889 the catch at the mouth of this river totaled 3.5 million sockeye salmon. In 1896 the first catches from other areas were documented, with sockeye salmon being landed from the Uganik, Little, and Ayakulik Rivers.

With increased fishing pressure sockeye stocks declined. Fisheries spread along the westside of Kodiak to target mixed sockeye, pink, chum, and coho salmon stocks as they migrated toward their natal streams. Fish traps were heavily used and accounted for the majority of the harvest. There was much controversy concerning the use of cannery owned fish traps, due to allocative concerns of independent fishermen and biological concerns of management biologists. Traps were outlawed by the State of Alaska in 1959, and seine and gillnet gear competed for the available salmon resources. Gear specific fishing areas, closed water sanctuaries, and complex, stock specific harvest strategies developed to ease allocative conflicts and to aid in the rebuilding of depressed sockeye salmon stocks.

The mixing of various local salmon stocks during the inshore migration makes management very complex. The many tagging studies done along Kodiak Island's westside were intended to help discern migratory pathways and timing of the westside salmon stocks as well as salmon moving to the Alitak Bay District. Both set gillnet and seine gear are legal gear in part of the westside (the Central Section), and occasional allocative disputes arose. Harvest strategies evolved until 1990, when the Westside Kodiak Management Plan (5 AAC 18.362) was adopted by the Board of Fisheries (Appendix C.1. pages 7 and 8, and Appendix I.2.). It was hoped that placing this plan in regulation would clarify the management strategy which was in place to maintain the biological integrity of local salmon stocks and the allocative concerns of local fishers. It is the intent of this plan that salmon bound to local systems be harvested in "traditional" fisheries located in all sections covered under this plan. The Westside Salmon Management Plan is effective for the entire salmon season, and covers the Southwest Kodiak and Northwest Kodiak Districts, and the Southwest Afognak Section of the Afognak District (Appendices I.3. and I.4.).

The Westside Kodiak Management Plan guides early and late run sockeye fisheries of the Southwest Afognak Section and the Northwest and Southwest Kodiak Districts, including: the major systems of Karluk and Ayakulik, and the minor systems of Little River, Uganik, Malina, Paramanof, Thorshiem. This plan states that the westside management units will be managed in

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early June as mixed stock sockeye fisheries on sockeye bound for Alitak, Ayakulik, Karluk, and local minor systems.

1993 Westside Kodiak Fisheries

For the Northwest Kodiak District, as indicated in the Westside Kodiak Management Plan, at least two commercial test fishing periods, each not exceeding 33 hours in length, shall occur in this district during the period June 9 through approximately June 15. As indicated in the 1993 Kodiak Area Commercial Salmon Fishery Harvest Strategy (R.I.R. 4K93-21), the first of these two periods was scheduled to begin at 12:00 Noon on June 9. The results of this commercial test fishery are used as a management tool to aid in evaluating the actual return strength of the Karluk, and Ayakulik early run sockeye stocks. Because of the importance of the major systems of Karluk and Ayakulik to the fisheries associated with the Westside Kodiak Management Plan, the 1993 season synopsis will describe these major sockeye returns. A description of the Westside Kodiak pink salmon fisheries is found in Appendix K, the General Pink Salmon Fishery.

Karluk Early Run Sockeye

As early as June 8 it was apparent that the sockeye return to the Karluk River was exceptionally strong, or early, or both. The escapement through the Karluk weir was well above average for that date, and fish were building up in the lagoon (some 82,000 sockeye had passed through the Karluk weir while the interim escapement goal is only 32,000 by this date). It was felt that the early run escapement goal (150,000 to 200,000 sockeye by July 15) would be achieved, so in addition to the initial 33 hour westside opening on June 9 (for the Northwest Kodiak District, except for the Kizhuyak Section) a short opening (9 hours of fishing time) was allowed in the Inner and Outer Karluk Sections for June 10. An estimated 68,000 salmon were harvested in the Northwest Kodiak District, and an additional 5,300 salmon were harvested from the Inner and Outer Karluk Sections.

Sockeye returns to Karluk remained strong and the westside of Kodiak, including the Southwest Afognak Section, the Northwest Kodiak District, and the Inner and Outer Karluk Sections opened again on June 14 (the Inner Uganik and Kizhuyak Sections of the Northwest Kodiak District remained closed to afford increased protection to minor sockeye systems in those sections). By June 15 it was clear that the early Karluk run was coming in stronger than forecasted. The escapements were well ahead of schedule (in fact the lower biological escapement goal of 150,000 sockeye was reached on June 12) and early indications were that catches were good. Commercial fishing in westside management units (including the terminal fishing area of the

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Inner Karluk Section) was extended five times, through June 27. Daily catches ran from 18,000 to over 40,000 fish per day.

Additional fishing areas were opened also, to help harvest surplus Karluk bound sockeye salmon. On June 25 the Halibut Bay Section was opened (in accordance with the Westside Kodiak Salmon management plan this section shall open only after June 23 and only based on good returns to the Karluk and Ayakulik Rivers; see section following for details of the Ayakulik returns). On June 27, with catches along the westside remaining strong and the early run escapement goal assured, the Southwest Afognak Section, the Northwest Kodiak District, and the Inner and Outer Karluk Sections were opened "until further notice", through the end of the early run sockeye salmon management period (through July 6), and the fishing period in the Halibut Bay Section was extended. Halibut Bay was extended an additional 3 times, through July 4. The Outer Karluk Section was further extended, through July 17, to "mop up" early run sockeye salmon returning to Karluk. Approximately 1,366,600 sockeye salmon were harvested in fisheries directed toward early run sockeye bound to Karluk. The early run escapement was 259,256 (slightly above the upper goal of 250,000) (Figure 18).

Karluk Late Run Sockeye

In accordance with the Westside Kodiak Management Plan between July 6 and August 15 much of the Northwest Kodiak District and west Afognak Sections are managed based on pink salmon returns to the major systems or local minor systems. From August 16 to 24 management is still directed at pink salmon, but also is blended toward late run Karluk sockeye salmon management. From August 25 through September 5 management of fisheries is directed at late run sockeye returning to Karluk, and after September 5 towards coho salmon management.

Pink salmon dominated the westside Kodiak fisheries from July 6 through late August. 1993 had a record return of pink salmon and those management units along the westside of Kodiak opened for 4 1/2 day fishing periods each week throughout July, and then were extended for continuous fishing through August 20 (see Appendix K on pink salmon management strategy). During this time it was determined that the Karluk late sockeye return was weaker than expected. Catches of sockeye salmon were low (despite continuous fishing), and the late run sockeye escapement was at only 40,000, well below the interim goal of 105,000 to 145,000 through August 20. Those management units most likely to intercept Karluk bound sockeye salmon (the Northwest Kodiak District and Southwest Afognak Section) were closed to commercial fishing. Even with no commercial fishing along the westside, the Karluk late run sockeye escapement remained below the minimum goal, so no further fisheries were allowed. At the end of the season, the escapement totaled 390,700 sockeye, near the low goal (Figure 18). The estimated harvest of

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sockeye, taken during pink salmon fisheries prosecuted in July and August was approximately 464,400 sockeye salmon (Table 20).

Ayakulik Sockeye

As early as June 10 it appeared that the sockeye salmon returns to the Ayakulik River (Red Lake) were stronger than expected. Escapement through the Ayakulik weir totaled about 84,000 sockeye salmon, well above the expected level for that date, and daily escapement rates were high (Figure 19). To prevent significant over escapement of sockeye salmon into the Ayakulik River a two day commercial salmon fishing period was announced for both the Inner and Outer Ayakulik Sections, beginning June 12. Escapement remained above the interim goals (the escapement was 126,000 by June 13 compared to the interim escapement goal of about 68,000 for that date) and catches were good (31,000 sockeye salmon were harvested June 13), indicating that the run was stronger than forecast.

Commercial fishing in the Inner and Outer Ayakulik Sections was extended four times, through June 22. At that time the escapement was at 140,532 sockeye salmon, well above the interim goal for that date and near the lower goal for the early portion of the Ayakulik run (160,000 to 220,000 by July 15). With steady fishing pressure at the mouth of the river, daily escapement dropped off. To allow an additional pulse of escapement (to insure that the upper end of the goal would be reached) the commercial fishery was allowed to close on the June 22. Through June 24 escapements did not pick up significantly, and the crew at the Ayakulik weir indicated that there were few fish showing at the mouth and along the beaches north and south of the river mouth. Escapements were still significantly ahead of the projected interim goals, so to allow for some harvest of incoming Ayakulik sockeye, while allowing additional escapement opportunities, the Halibut Bay Section was opened on June 25 (this opening was also intended to help harvest Karluk bound sockeye, in accordance with the Westside Kodiak Management Plan).

Daily escapement surpassed 12,000 sockeye on June 25 and an aerial assessment indicated that up to 10,000 additional sockeye may have been present in the lagoon. The crew was reporting good shows of jumpers and fish along the beach to the north and south of the river mouth. An opening in the Inner and Outer Ayakulik Sections was announced for June 27, and the commercial fishing period in the Halibut Bay Section was extended. These fisheries were further extended 3 times through July 4. At that time the determination was made, that though the lower escapement goal of 150,000 through July 15 had been surpassed and the escapement to date was ahead of the lower interim goal, it was desirable to "top off" the sockeye escapement (in other words, close fishing to allow the escapement to continue unimpeded until the upper biological goal was neared).

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The upper escapement goal through July 15 is 220,000 sockeye salmon. By that date only 196,000 sockeye had passed through the weir but escapement rates were good. There was the hope that additional fishing time would be possible, but escapements began to lag. Through the end of July escapement continued to lag behind the desired daily level, though the total was still above the lower goal (Figure 19). In accordance with the Westside Kodiak Management Plan the Ayakulik sections are managed from July 16 to August 24 based on sockeye salmon returns. Low daily escapement rates continued throughout the month of August, and so no further commercial fishing time was allowed. Final end of season escapement was 286,170 sockeye salmon, well above the minimum level of 200,000, but still below the upper goal of 300,000 sockeye salmon (Figure 19). The harvest of sockeye salmon from the Inner and Outer Ayakulik Sections and the Halibut Bay Section totaled 589,000 fish (Appendix P, and Table 20).

		6/1	6/9	6/16	6/23	7/6	7/16	8/1	8/16	8/25	9/6	10/31
AFOG. DIST.	S.W.AFOGNAK	CLOSED				E.R.KARLUK SOCKEYE	LOCAL AND MIXED PINK		L.R.KARLUK SOCKEYE/ LOCAL & MIXED PINK	L.R.KARLUK SOCKEYE	LOCAL COHO	
	NORTH CAPE: CENTRAL	CLOSED	CLOSED	CLOSED	E.R.KARLUK SOCKEYE	LOCAL AND MIXED PINK		L.R.KARLUK SOCKEYE/ LOCAL & MIXED PINK	L.R.KARLUK SOCKEYE	LOCAL COHO		
NORTHWEST KODIAK DISTRICT	ANTON LARSEN	CLOSED	CLOSED	CLOSED	LOCAL SOCKEYE AND E.R. CHUM	LOCAL SOCKEYE, E.R. CHUM & PINK	LOCAL PINK & L.R. CHUM	LOCAL PINK/ L.R. CHUM/ COHO	LOCAL COHO			
	SHERATIN											
	KIZHUYAK											
	TERROR											
	IN. UGANIK											
	SPIRIDON											
	ZACHAR											
	UYAK											
SOUTHWEST KODIAK DISTRICT	OUT.KARLUK	CLOSED	E.R. KARLUK SOCKEYE				ODD-YEAR CYCLE: L.R. KARLUK SOCKEYE		L.R. KARLUK SOCKEYE	KARLUK COHO		
							EVEN-YEAR CYCLE: L.R. KARLUK SOCKEYE/PINK					
	IN.KARLUK	CLOSED	E.R. KARLUK SOCKEYE				ODD-YEAR CYCLE: L.R. KARLUK SOCKEYE		L.R. KARLUK SOCKEYE	KARLUK COHO		
							EVEN-YEAR CYCLE: L.R. KARLUK SOCKEYE/PINK					
	STURGEON	CLOSED			E.R.KARLUK & AYAKULIK SOCKEYE & STURGEON CHUM		ODD-YEAR CYCLE: L.R. KARLUK SOCKEYE		L.R. KARLUK SOCKEYE	LOCAL COHO		
							EVEN-YEAR CYCLE: L.R. KARLUK SOCKEYE/PINK					
HALIBUT	CLOSED			E.R.KARLUK AND AYAKULIK SOCKEYE		ODD-YEAR CYCLE: L.R. KARLUK SOCKEYE		L.R. KARLUK SOCKEYE	LOCAL COHO			
						EVEN-YEAR CYCLE: L.R. KARLUK SOCKEYE/PINK						
SOUTHWEST KODIAK DISTRICT	OUT.AYAKULIK	CLOSED	E.R. AYAKULIK SOCKEYE				ODD-YEAR CYCLE: L.R. AYAKULIK SOCKEYE		AYAKULIK COHO			
							EVEN YEAR CYCLE: L.R. AYAKULIK SOCKEYE/PINK					
	IN.AYAKULIK	CLOSED	E.R. AYAKULIK SOCKEYE				ODD-YEAR CYCLE: L.R. AYAKULIK SOCKEYE		AYAKULIK COHO			
							EVEN YEAR CYCLE: L.R. AYAKULIK SOCKEYE/PINK					



COMMERCIAL TEST FISHERIES

E.R. = EARLY RUN STOCKS

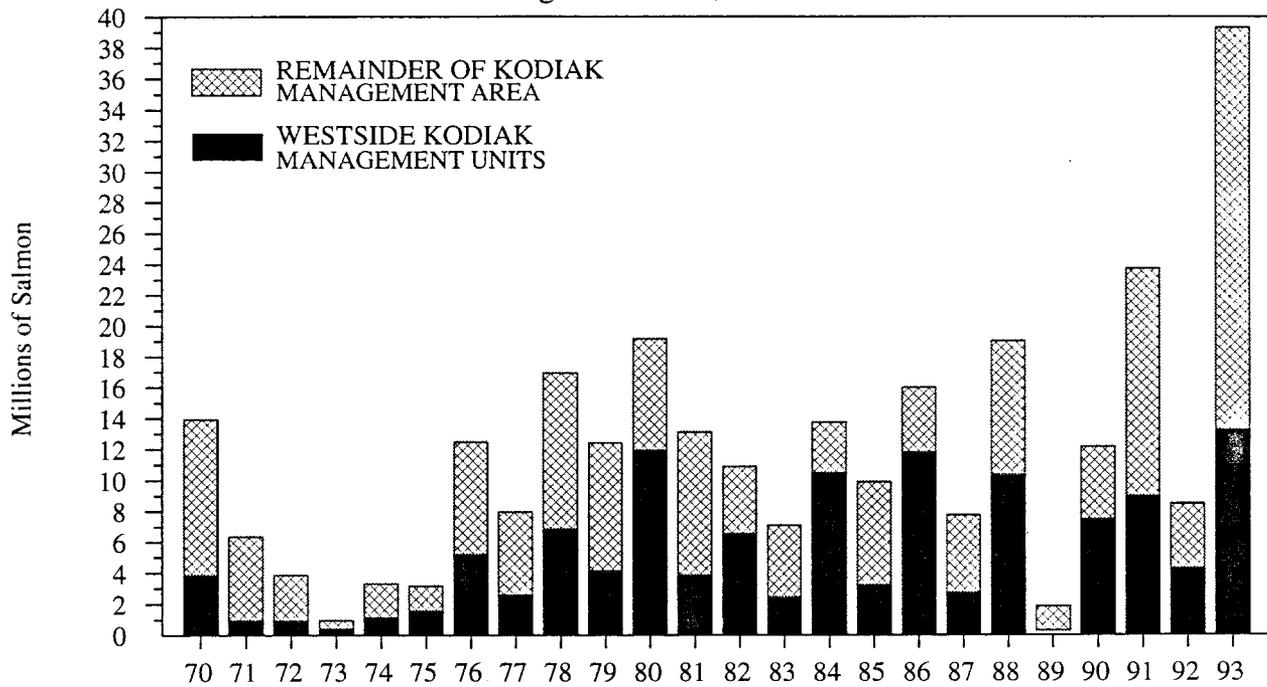
L.R. = LATE RUN STOCKS

Appendix I.2. Primary management species and fishery chronology of the Westside Kodiak Management Plan for the Kodiak Management Area, 1993.

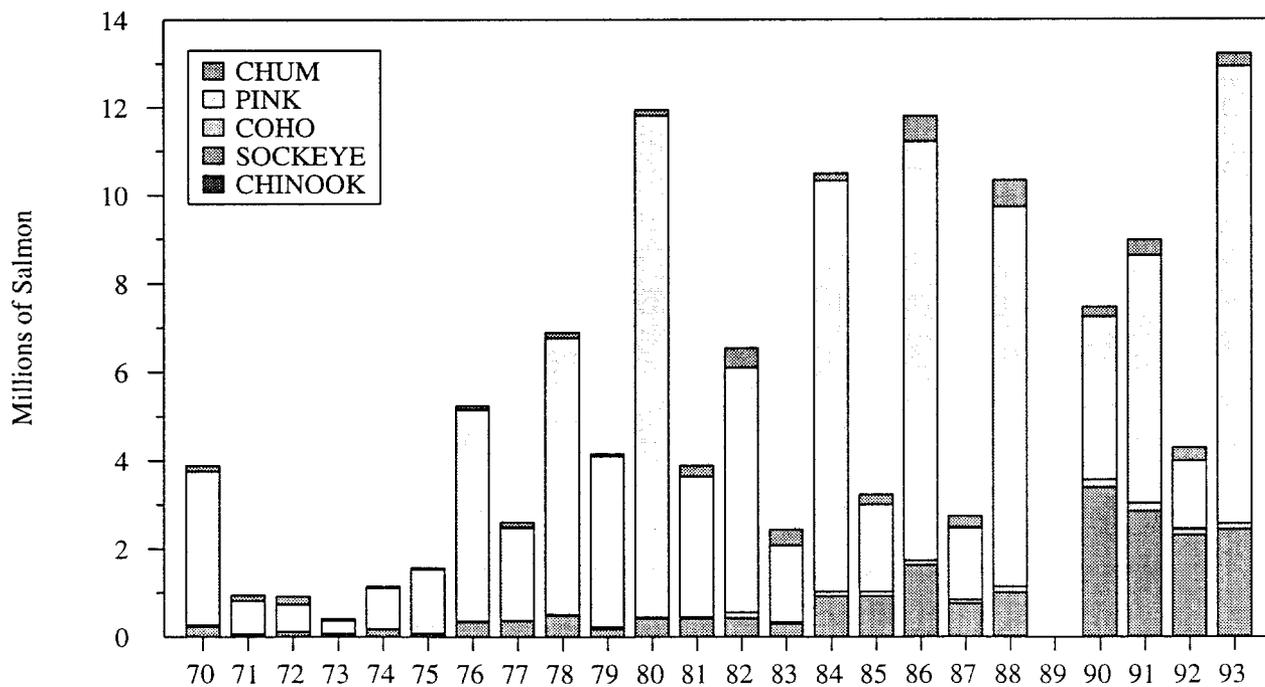
YEAR	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL
70	702	230,424	36,038	3,485,342	135,658	3,888,164
71	96	66,199	5,596	752,869	128,747	953,511
72	867	121,203	4,990	608,989	193,569	929,618
73	145	76,010	1,403	288,568	49,931	416,057
74	227	181,075	4,919	930,645	34,214	1,151,080
75	50	75,983	14,439	1,441,658	36,358	1,568,488
76	253	350,403	10,412	4,786,866	91,524	5,239,458
77	454	363,690	12,619	2,107,769	115,435	2,599,967
78	1,352	491,503	20,216	6,245,588	134,794	6,893,453
79	611	185,363	47,043	3,860,734	59,469	4,153,220
80	385	411,862	44,639	11,344,424	132,910	11,934,220
81	899	415,018	36,650	3,183,618	246,825	3,883,010
82	858	427,454	128,718	5,538,196	450,819	6,546,045
83	2,344	297,045	49,393	1,728,428	374,187	2,451,397
84	3,634	925,236	104,347	9,291,637	166,069	10,490,923
85	4,304	920,015	97,474	1,979,788	226,726	3,228,307
86	3,728	1,632,227	102,304	9,472,330	584,538	11,795,127
87	2,268	754,943	85,055	1,643,187	261,601	2,747,054
88	11,848	998,895	141,115	8,574,478	609,946	10,336,282
89	0	3,489	986	1,005	53	5,533
90	12,090	3,383,351	176,475	3,674,278	218,883	7,465,077
91	11,780	2,842,802	179,852	5,588,982	346,193	8,969,609
92	17,238	2,306,791	128,737	1,538,305	302,779	4,293,850
93	22,189	2,425,370	124,497	10,344,080	300,571	13,216,707

Appendix I.3. Commercial salmon harvest by species for westside management units of the Kodiak Management Area, 1970-1993.

Salmon Harvest in Westside Kodiak units vs. the Remainder of the Kodiak Management Area, 1970 - 1993.



Westside Kodiak Management Units Salmon Harvest, by species, 1970 - 1993.



Appendix I.4. Salmon harvest in the Westside Kodiak Management Plan units of the Kodiak Management Area, 1970 - 1993.

APPENDIX J

North Shelikof Strait Sockeye Salmon Management Plan (5AAC 18.363.)

INTRODUCTION

In 1988, there was a significant harvest of large (greater than 6 pound) sockeye salmon in management units bordering the northern portion of Shelikof Strait. Analysis of average weights, salmon ages (determined from scale analysis), review of past tagging studies, and estimates of migratory timing, led to the determination that the majority of these sockeye salmon were bound for Cook Inlet (Barrett 1989). Though the Cook Inlet sockeye salmon return was at record level, the Board of Fisheries felt that this was an expanding, nontraditional harvest pattern. In 1990, the North Shelikof Strait Sockeye Salmon Management Plan (5AAC 18.363.) was adopted into regulation (Appendix J.2. and Appendix C.1 page 8).

This plan covers the time period from July 6 through July 25 and limits purse seine fishing opportunities in those waters of Shelikof Strait from Dakavak Bay to Cape Douglas in the Mainland District and from Raspberry Cape to Shuyak Island in the Afognak District (Appendices A.2 and A.7.). Within this area two management units are defined, the North Shelikof Unit and the Southwest Afognak Unit, and "seaward zones" are designated within each unit (the Seaward Zones are all waters seaward of a baseline drawn from cape to cape, and are defined in the regulations). Harvest of migrating sockeye salmon is limited through the use of sockeye harvest "caps". After July 6, if a harvest cap is reached or exceeded in either of the Shelikof management units then the seaward zone of that management unit is closed to further fishing through July 25; only the inshore "shoreward zone" (all waters inside the baseline) will be open to commercial fishing during normal fishing periods.

The seaward zone of the North Shelikof Unit (the Dakavak Bay, Outer Kukak Bay, Hallo Bay, Big River, Shuyak Island, and Northwest Afognak Sections; Appendices A.2 and A.7.) will close to fishing if more than 15,000 sockeye salmon are harvested between July 6 through July 25. The seaward zone of the Southwest Afognak Unit (the Southwest Afognak Section; Appendix A.2.) will close to fishing if more than 50,000 sockeye are harvested during that time period. Beginning in 1993, the seaward zone of the Southwest Afognak Unit was modified by the BOF. The baseline of the Seaward Zone was moved offshore 1/2 mile. This creates a nearshore corridor which will not close if the harvest cap is reached, to allow for the continuance of traditional harvest opportunities on pink salmon).

Permit holders who intend to fish in management units covered by this plan were advised in the 1993 Kodiak Area Commercial Salmon Fishery Harvest Strategy (RIR 4K93-21) that in-period closures of the seaward zones might occur. In order to provide for an orderly in-period closure, permit holders were notified of specific times when to listen for potential closure announcements. For 1993 the announcement times were given as 8:00 AM, 10:00 AM, 2:00 PM, or 6:00 PM

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daily. The closure time would be 3 hours after the announcement time, to provide for adequate advance notice and an orderly closure of the fishery.

In the three years this plan has been in effect, seaward zone closures in the North Shelikof Unit occurred in 1990, 1992, and 1993, and in the Southwest Afognak Unit in 1992 and 1993 (Appendix J.3.).

1993 North Shelikof Strait Salmon Fishery

Length and timing of commercial salmon fishing periods in the areas covered by this plan during July 6 - 25 is based on the Kodiak pink and chum salmon harvest strategy. Traditionally, these areas have opened during this time period to allow for the harvest of high quality, ocean bright, pink and chum salmon migrating through the Shelikof towards the major systems of the west and south sides of Kodiak or to local systems of Afognak and the Alaska Peninsula. Weekly fishing periods are scheduled pre-season based on the forecasted return strength of pink salmon (See Appendix K, General Pink Salmon Fishery for more details). These weekly periods can range from 2 1/2 days to 4 1/2 days per week, depending on the size of the projected pink salmon return. The weekly periods for the Mainland District are generally shorter in duration, to grant more protection to the chum salmon systems of that area.

In 1993, the westside of Afognak Island was scheduled to be opened 12:00 Noon July 6 through 9:00 PM July 10, 12:00 Noon July 13 through 9:00 PM July 17, and 12:00 Noon July 20 through 9:00 PM July 24 (4 1/2 days per week). The Mainland District was scheduled to have shorter fishing periods, to protect chum salmon. In 1993 the Mainland District (except the Wide Bay and Cape Igvak Sections) was scheduled to be opened 12:00 Noon July 6 through 9:00 PM July 8, 12:00 Noon July 13 through 9:00 PM July 15, and 12:00 Noon July 20 through 9:00 PM July 22 (2 1/2 days per week).

The State vessel K-Hi-C was utilized to monitor the north Shelikof salmon fishery. The objective for having the K-Hi-C on the grounds was to collect up to date catch information needed to make management decisions, and to collect scale samples from sockeye salmon harvested. Catch information was obtained from fishing vessels on the grounds during the day and from tenders at night. Good estimates of species composition of the catch, number of fish caught in each seine haul, total daily catch, etc., were obtained for many of the vessels in each area. From this an estimate was made of the total catch per area per day. Catch information was relayed to the Kodiak office several times each day.

During the initial fishing period in July (beginning July 6) winds were predominantly westerly, and few fishing vessels operated in the Mainland District (catches were very low). Fishing effort

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in the area affected by this management plan was concentrated along the west side of Afognak Island. Catches were light through July 8, but picked up significantly in the area of Black Cape late on July 9. Estimates of the July 6-9 Northwest Afognak Section catch were transmitted to the Kodiak office at 8:00 AM on July 10. The catch estimates indicated that the 15,000 sockeye salmon cap for the North Shelikof Unit was close to being reached. However, there was some possible misreporting on fish tickets which could have inflated the estimated catch (some vessels fishing in the Southwest Afognak Section may have been reported as Northwest Afognak catches). By contacting salmon processors in Kodiak the management staff was able to confirm the on the grounds catch estimates by approximately 12 Noon July 10. The next scheduled announcement time for the fishing fleet was 2:00 PM. A closure of the seaward zone of the North Shelikof Management Unit was announced on SSB 4125 MHz and VHF 6 at 2:00 PM, with the closure of the effective at 5:00 PM July 10. Vessels fishing in the Northwest Afognak and Shuyak Island Sections were approached and notified verbally of the closure. Inseason estimates ranged from 14,000 to 16,000 sockeye harvested at the time of the closure. Postseason fish ticket summaries indicated that 15,220 sockeye had been harvested in the North Shelikof Unit from July 6 through July 10.

Prior to the second fishing period (July 13 to 17) the estimated sockeye harvest in the Southwest Afognak Unit was approximately 38,000, near the 50,000 sockeye harvest cap for this management unit. On July 13 catch estimates were gathered on the grounds by biologists aboard the K-Hi-C, and at 7:00 AM July 14 the Kodiak management staff was contacted and informed that the previous days sockeye harvest may have approached 10,000. Kodiak staff confirmed that the cap had been reached at approximately 9:55 AM. A closure of the seaward zone of the Southwest Afognak Unit was announced on SSB 4125 MHz at approximately 10:04 AM, to be effective at 1:00 P.M. July 14. Again, vessels in the area were approached and informed of the closure. At the time of the closure inseason estimate of the harvest ranged from 48,000 to 55,000 sockeye salmon taken in the Southwest Afognak Unit since July 6. Postseason fish ticket totals through July 14 indicate that 45,900 sockeye salmon were harvested.

In accordance with the management plan, in the Southwest Afognak Unit a 1/2 mile corridor along the headlands remained open, in addition to the inshore shoreward zone. It is of interest to note that the majority of vessels fishing the Southwest Afognak Unit during both the first and second openings were fishing within this corridor. Weather was the determining factor, with westerly winds and 6' to 10' seas keeping most vessels working close to shore.

For the third opening the K-Hi-C went across Shelikof Strait to monitor the Mainland District harvest. The weather had switched to predominantly easterly winds and several vessels were expected to fish the shoreward zones of the Big River, Hallo Bay, Outer Kukak, or Dakavak

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Sections, or the Alinchak or Katmai Sections which opened concurrently. Effort and harvest was light.

The 1993 North Shelikof Unit harvest for the time period July 6 through July 25 totaled 1,220 chinook, 78,420 sockeye, 1,950 coho, 75,640 pink, and 4,250 chum salmon with 89 vessels participating (Appendix J.3 and Appendix P).

The 1993 harvest totals for the Southwest Afognak Unit for July 6 through July 25 are 845 chinook, 73,160 sockeye, 7,020 coho, 240,710 pink, and 7,320 chum salmon with 87 vessels participating (Appendix J.3 and Appendix P).

MAINLAND DISTRICT	Big River Section	CLOSED	Early Run Sockeye Minor Systems	NORTH SHELIKOF MGMT UNITS (5AAC 18.363.(b)(3)(A) & (B))	MANAGEMENT BASED ON LOCAL PINK AND CHUM SALMON STOCKS EXCEPT: IF SOCKEYE HARVEST EXCEEDS 15,000 THEN THE "SEAWARD ZONES" ARE <u>CLOSED</u> , AND ONLY THE "SHOREWARD ZONES" MAY REMAIN OPEN. (5AAC 18.363.(b))	Pink And Chum Salmon		COHO
	Hallo Bay Section	CLOSED	CLOSED			Pink And Chum Salmon		
	Inner Kukak Section	CLOSED	CLOSED			Pink And Chum Salmon		
	Outer Kukak Section	CLOSED	Early Run Sockeye Minor Systems			Pink And Chum Salmon		
	Dakavak Section	CLOSED	CLOSED			Pink And Chum Salmon		
AFOGNAK DISTRICT	Shuyak Is. Section	CLOSED	Early Run Sockeye Minor Systems	SW. AFOGNAK (5AAC 18.363.(c)(3))	MANAGEMENT BASED ON PINK AND CHUM SALMON STOCKS EXCEPT: IF THE SOCKEYE HARVEST EXCEEDS 50,000 THEN THE "SEAWARD ZONE" CLOSES, AND ONLY THE "SHOREWARD ZONE" MAY REMAIN OPEN. (5AAC 18.363.(c))	Pink Salmon	COHO	
	NW Afognak Section	CLOSED	Early Run Sockeye Minor Systems			Pink Salmon		
	Southwest Afognak Section	CLOSED	Early Run Karluk Sockeye			Pink Salmon		Pink Salmon And Late Run Karluk Sockeye
		6/9	6/14	7/6	7/25	8/15	9/5	

Appendix J.2. Primary management species and general fishery chronology in management units affected by the North Shelikof Strait Sockeye Salmon Management Plan for the Kodiak Management Area, 1993.

North Shelikof Units (15,000 Sockeye Harvest Cap) ^{a/}											
YEAR	Total Number of Days Open to Fishing / Number of Days Seaward Zone Closed		Date and Time of Zone Closure	Sockeye Salmon Harvest at Time of Zone Closure	Number of Vessels	Total Harvest By Species July 6 through July 25					Upper Cook Inlet Sockeye Harvest
	MAINLAND	N. AFOGNAK				CHINOOK	SOCKEYE	COHO	PINK	CHUM	
1990	7.1 / 2.4	9.1 / 4.4	7/15 9 PM	36,800	69	140	57,700	3,900	18,600	19,400	3.6 MILLION
1991	7.1 / 0	13.1 / 0	No Zone Closure	N/A	42	2,500	18,800	2,700	44,800	3,800	2.2 MILLION
1992	7.1 / 5.1	9.1 / 7.1	7/8 1 PM	13,500	77	900	128,100	3,000	23,900	11,700	8.9 MILLION
1993	7.1 / 4.7	13.8 / 8.9	7/10 5 PM	15,220	89	1,220	78,420	1,950	75,640	4,250	4.7 MILLION

a/ In 1988, from 7/6 - 7/25, with 6.9 days open to fishing 392,000 sockeye were harvested in the "North Shelikof Units". In Upper Cook Inlet 6,800,000 sockeye were harvested.

Southwest Afognak Section (50,000 Sockeye Harvest Cap) ^{b/}											
YEAR	Total Number of Days Open to Fishing / Number of Days Seaward Zone Closed		Date and Time of Zone Closure	Sockeye Salmon Harvest at Time of Zone Closure	Number of Vessels	Total Harvest By Species July 6 through July 25					Upper Cook Inlet Sockeye Harvest
	CHINOOK	SOCKEYE				COHO	PINK	CHUM			
1990	9.1 / 0		No Zone Closure	N/A	64	300	22,900	3,600	53,800	6,000	3.6 MILLION
1991	13.1 / 0		No Zone Closure	N/A	55	300	34,200	3,600	100,700	4,000	2.2 MILLION
1992	9.1 / 4.7		7/14 1 PM	48,200	84	300	50,600	600	30,000	6,800	8.9 MILLION
1993	13.1 / 7.7		7/14 1 PM	45,900	87	845	73,160	7,020	240,710	7,320	4.7 MILLION

b/ In 1988, from 7/6 - 7/25, with 11.1 days open to fishing 86,000 sockeye were harvested in the "North Shelikof Units". In Upper Cook Inlet 6,800,000 sockeye were harvested.

Appendix J.3. Summary of fishing time, zone closures, effort, and harvest by species, for management units affected by the North Shelikof Sockeye Salmon Management Plan for the Kodiak Management Area, 1990 - 1993.

APPENDIX K

**General Pink Salmon Fishery and the Eastside Afognak Management
Plan (5AAC 18.365)**

INTRODUCTION

Though not a BOF management plan, there has been a specific harvest strategy guiding the pink salmon fisheries of KMA since the early 1970's. Pink salmon constitute the bulk of the KMA salmon harvest. In order to provide the best quality pink salmon to the market, fisheries are structured to harvest pink salmon as they first migrate into the nearshore zones. With Kodiak Archipelago's deep, protected bays and abundant fresh water runoff, if fish are allowed to build up in terminal areas they quickly darken (they take on the prespawning dark color and humped back) and decrease in quality.

Providing a preseason plan within which to structure fisheries is essential to the prosecution of orderly fisheries. The pink salmon preemergent fry sampling program, conducted annually since 1966, provides a reliable forecast of pink salmon returns. Based on the forecasted strength of the pink salmon run, fixed weekly fishing periods are planned for July and early August. If surveys of the escapement and inseason catch reports indicate the run has come in weaker or stronger than predicted adjustments to the length of fishing periods can be announced. However, an accurate assessment of run strength, which may result in modification of fishing periods, does not usually occur until after the third weekly period in July (after approximately July 25).

Since 1978, the fixed opening date for pink salmon fisheries in the KMA has been July 6. Many of the BOF approved management plans recognize this pink salmon harvest strategy, and the July 6 general pink salmon opening date is listed in the Westside Kodiak Management Plan (5AAC 18.362), the North Shelikof Strait Sockeye Salmon Management Plan (5AAC 18.363.), and the Eastside Afognak Management Plan (5AAC 18.365).

1993 General Pink Salmon Fishery

For pink salmon, based on good brood year escapements in 1991, good pink salmon fry over winter survival (the live fry index for the 1993 return was the highest on record for odd year production), and excellent spring conditions in 1992 (which favors fry outmigration and near shore ocean survival), a near record harvest of 15.1 million wild pink salmon (range 13.5 to 16.7 million) was predicted. In addition, the Kitoi Hatchery manager forecasted a record 6.5 million harvest of hatchery produced pink salmon, based on the large number of fry released (139.5 reared fry and 7.6 million emergent fry), the excellent condition of the fry on release, and on very good spring conditions in 1992 (see the following section on the Eastside Afognak fishery). The total 1993 KMA pink salmon harvest (after escapement goals were assured) was forecasted at 21.6 million (range 15.3-24.4 million) (Appendix E.1.).

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During the previous three years (1990, 1991, 1992) pink salmon returned to Kodiak Area streams at less than forecasted levels. For the 1992 return, poor early marine conditions may have been the main factor for the less than expected return. In 1990 and 1991 there were very low adult average weights, which points to poor ocean rearing conditions. It was discussed that if similar marine conditions existed in 1993 as may have affected the 1990 and 1991 returns, the 1993 pink salmon run might be less than projected.

In consideration of the forecasted strength, and an expected strong early production associated with odd year returns, the initial fishing periods for most management units where pink salmon are the targeted management species was set at 4 1/2 days per week. Less fishing time was expected in management units where chum salmon is also a targeted management species. Fishing time for the Mainland District was only 2 1/2 days per week, to assure that Mainland chum salmon stocks were not overexploited. Projected fishing periods through July and August, which could be used for planning purposes by both ADF&G and industry, were listed in the harvest strategy (Table 16).

Due to strong returns of sockeye salmon to Karluk and to several minor sockeye systems, much of the Kodiak area was open just prior to July 6. Extension of fishing time in those areas was announced through the end of the initial pink salmon period (July 10). New areas along the eastside of Kodiak and on Afognak were also opened for 4 1/2 days (July 6-10), and portions of the Mainland were opened for 2 1/2 days (July 6-8).

There were some areas which stayed closed, in consideration of weak returns. These included the Perenosa Bay Section (to protect the sockeye returning to Pauls Bay and Portage Creek), the Buskin River Section (to protect sockeye returning to the Buskin River), and the Wide Bay Section (to protect chum stocks due to extensive fisheries in the Cape Igvak Section). Also, in consideration of the large tides at the time (Appendix Q), closed waters were increased in the Inner Uganik Bay Section. Management of the Cape Igvak Section and the Alitak Bay District followed separate plans (Appendices G and H).

For the next two weeks there were similar fishing periods, 4 1/2 day openings for the Kodiak Archipelago management units (in the Northwest Kodiak, Eastside Kodiak, Northeast Kodiak, Afognak, and Alitak Bay Districts; July 13-17 and July 20-24), and 2 1/2 day fisheries for Mainland District management units (in the Alinchak, Katmai, Dakavak, Inner and Outer Kukak,

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Hallo Bay, and Big River Sections; July 13-15 and July 20-22)¹. No extensions of these fisheries were permitted, to allow an influx of pink and chum salmon into terminal areas as potential escapement fish. Assessment of the early pink salmon buildups were favorable, with large buildups in all systems. Pink catches were high as well, indicating that the pink return was coming in better than forecasted.

The fourth general pink salmon fishing period began July 27, and was again announced for 4 1/2 days for the Kodiak portion (to July 31), and 2 1/2 days for the Mainland portions (to July 29). Fewer areas on the Mainland were opened this period (Cape Igvak, Alinchak, Katmai and Dakavak Section). North Mainland management units remained closed (north of the Dakavak Section) because catches were low during the previous periods and escapement surveys indicated lower than expected chum salmon returns. For all other areas it appeared that the pink run was as strong or stronger than forecast.

Catches during this fourth period were extremely high, averaging over a million pinks per day. There were still good build ups of pink salmon in most inner bays and large numbers of pink salmon were entering the river systems. As stated in the 1993 Harvest Strategy (R.I.R 4K93-21) this fishing period is the first in which extensions in fishing time commonly occurs during years when the pink and chum salmon returns are equal to or stronger than expected. That was the case in 1993, and the pink salmon fisheries were extended twelve times, from July 27 through late August. Catches were very strong, continuing to average a million pinks per day through the first week of August, and slowly diminishing to approximately 300,000 per day by late August.

As mentioned previously the general pink salmon fishery included the Northwest Kodiak, Northeast Kodiak, Eastside Kodiak, Alitak Bay, and Afognak Districts, as well as the southern portions of the Mainland District. But as the summer progressed and the fishery was extended, modifications were made in this "general" opening, with some areas closing to further fishing (rain was very sparse in the Kodiak Area in August, and many streams were low hampering escapement), and some new areas opening. These included: On August 4 portions of the Wide Bay Section (of the Mainland District) were opened to allow harvest of pinks in excess of escapement requirements (the inner bay was kept closed to protect chum salmon buildups);

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¹ Some portions of the northern Mainland District were closed to fishing during this time. Due to excessive sockeye harvests, on July 10 the seaward zone of the North Shelikof Unit closed and on July 14 the seaward zone of the Southwest Afognak Unit closed. in accordance with the North Shelikof Strait Sockeye Salmon Management Plan.

Effective August 7 the Buskin River Section closed to protect seemingly weak returns of pink salmon to streams within that section (Sid Olds, American, and Buskin rivers), and the Cape Alitak and Olga-Moser Bay Sections were closed to protect late run Upper Station sockeye (see Appendix H); On August 12 the Dakavak Bay Section was allowed to close to protect weak returns of pink and chum to local streams, the Shuyak Island Section closed to protect buildups of early coho salmon; and a portion of the Seven River Section near the stream terminus was closed to enlarge the closed water sanctuary for pink salmon buildups; Effective August 16 the Mainland District was closed to protect pink and chum escapements, the Outer Ugak Bay Section and the Sitkalidak Section inside Kiliuda bay were closed to protect weak chum returns; On August 17 the Duck Bay and Izhut Bay Sections were closed to allow broodstock for the Kitoi Bay Hatchery to build up (see the following section on the Eastside Afognak Management Plan); Effective August 20 the Duck Bay Section and the entire Seven Rivers Section were reopened due to good buildups of pinks.

Warm weather and low rainfall during August continued to keep stream levels low and water temperatures warm, leading to concerns for pink salmon escapement survival. Effective August 20 the Northwest Kodiak District, except for the Terror Bay, Inner Uganik Bay, and Uyak Sections, was closed to protect Karluk bound late run sockeye salmon (see Appendix I), and the Afognak District except for the Southeast Afognak Section was closed to protect late pink salmon and early coho salmon escapements. By the end of August escapements were assured in most systems and early coho returns were good enough to allow more areas to open. A 2 1/2 day period was allowed beginning August 31 in most of the Kodiak Area. Pink salmon harvests were less than 100,000 per day, and no further fisheries were directed at pink salmon. The total 1993 harvest of wild stock pink salmon was approximately 21.6 million fish (Table 20)

Eastside Afognak Management Plan (5AAC 18.365)

In addition to a robust wild population in the Kodiak Area, the Kitoi Bay Hatchery on the eastside of Afognak Island produces pink salmon. In 1990 the Board of Fisheries approved a regulatory management plan to govern the fisheries in the vicinity of the hatchery (Appendix C.1. page 8 and 9). Although occasionally modified, the plan has been in effect since 1981, and was formulated jointly by KMA commercial fishery managers and the Kitoi Bay Hatchery manager. It is the goal of this plan to achieve escapement and harvest objectives for salmon stocks of the Southeast Afognak, Duck Bay, Izhut Bay, and Kitoi Bay Section, and assure broodstock for the hatchery. The board intended that local stocks and hatchery fish be harvested within these sections. This plan details the key species and targeted stocks which are managed in each of these section throughout the fishing season (Appendix K.2.). The fisheries associated with the Kitoi Bay Hatchery mainly target on pink salmon. However, Kitoi Bay Hatchery also produces a small return of early chums and sockeye, and late returns of coho. The Kitoi Bay Section is

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normally closed to allow buildup and collection of fish for hatchery broodstock. Early July fisheries may be allowed if broodstock requirements are met for early chum salmon and sockeye salmon, and fisheries may be limited from late July to late August until pink salmon broodstock requirements are met.

The initial openings in July for pink salmon fisheries around Kitoi are scheduled to coincide with the general pink salmon fisheries. In the 1993 Harvest Strategy (R.I.R. 4K93-21) it was predicted that an opening in the normally closed Kitoi Bay Section may be allowed about the time of the fourth general opening, July 27, if it appears broodstock requirements will be met.

1993 Kitoi Hatchery Fisheries

The 1993 forecasted return of pink salmon was quite high, projected at 6.5 million pink salmon. Over 147 million pink salmon fry were released in 1992, most of which had been held in netpens in Kitoi Bay and fed for several weeks prior to release. Release was timed to coincide with natural plankton production, and spring weather conditions were mild, so survival was expected to be good.

The Southeast Afognak Section had been opened prior to the July 6 pink salmon opening because of strong sockeye returns to the Afognak River (Appendix N). This opening was extended through the July 6-10 fishing period, and the Duck Bay and Izhut Bay Sections were opened as well. These three sections were opened again July 13-17, in conjunction with the second general pink opening. Catches were very strong, indicating that the return to the hatchery was coming in as strong or stronger than forecasted.

For the third opening, beginning July 20, commercial salmon fishing was allowed in the Duck Bay and Izhut Bay Sections and in the outer portion of the Kitoi Bay Section (outside of the jaws). With a large return evident it was desired to harvest the early segment heavily, because of the high proportion of males in the early return. Catches were again strong, so fishing in all three sections was extended until further notice, beginning July 24 in order to harvest pink salmon in excess of broodstock requirements. On July 27 the remainder of the Kitoi Bay Section was opened.

By August 14 over 10 million pinks had been harvested along the eastside of Afognak (Appendix P). It was felt that broodstock needed to be collected, so the fleet was moved out, and the inside of the Kitoi Bay Section (inside the jaws) closed to fishing. Concerns for collecting adequate broodstock led to a closure of the entire Kitoi Section on August 15. Despite the fact that catches on the outside had been good, pink salmon failed to build quickly in Kitoi Bay near the hatchery, so on August 17 the Duck Bay and Izhut Bay Sections were also allowed to close to fishing. As

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the number of fish stacked up at the barrier net at the Kitoi Hatchery some fishing was allowed to resume in the Duck Bay Section on August 20. It was judged that broodstock requirements were assured by August 21, and the Izhut Bay Section and the outer portion of the Kitoi Bay Section opened again on August 21. The Southeast Afognak Section was closed to further fishing on August 23, to protect returning coho salmon. A three hour "mop up" fishery in the inner portion of the Kitoi Bay Section was opened by flare on August 24 to harvest excess pink salmon near the hatchery. The Duck Bay Section closed August 25 to protect early returns of coho salmon, but the Izhut Bay and outer Kitoi Bay Sections were extended twice, through August 29. The Kitoi Section then closed to protect returning coho broodstock, and the Izhut Bay Section extended through September 2. The final estimated pink salmon harvest from fisheries associated with the Kitoi Bay Hatchery was a record 12.1 million pink salmon, from a total return of 12.4 million (Appendix K.3.). Approximately 21,000 sockeye and 16,000 coho salmon were also harvested.

TARGETED SPECIES BY SYSTEM AND TIME FOR SPECIFIC MANAGEMENT UNITS ^{1/}

S.E. AFOGNAK SECTION (Seine)	LITNIK SOCKEYE	LITNIK SOCKEYE	LITNIK SOCKEYE	LOCAL PINK				LOCAL COHO							
DUCK BAY SECTION (Seine)	EARLY HATCHERY CHUM AND/OR SOCKEYE			HATCHERY & LOCAL PINK				LOCAL COHO							
IZHUT BAY SECTION (Seine)	EARLY HATCHERY CHUMS AND/OR SOCKEYE			CLOSED UNTIL COST RECOVERY ASSURED	HATCHERY & LOCAL PINK			LOCAL COHO & HATCHERY SOCKEYE							
KITOI BAY SECTION ^{2/} (Seine) Broodstock					a										
PINK: Cost Recovery					b										
Common Property					c										
CHUM &/OR Broodstock EARLY SOCKEYE	d														
Common Property	e														
COHO & Broodstock SOCKEYE:							f								
Common Property							g								
	6/9	6/14	6/20	7/1	7/3	7/6	7/18	7/20	7/25	8/1	8/8	8/15	8/20	8/24	9/1

 - fishing time dependant upon sockeye escapement into Litnik system.

- 1 Included in this management plan are the harvest strategies for current natural and hatchery production as well as future hatchery production.
- 2 The management plan required for the Kitoi Bay Section is rather complicated in order to achieve broodstock, cost recovery, and common harvest requirements. This is further complicated by the multispecies production currently occurring at Kitoi Bay hatchery. The diagram shown attempts to approximate dates for when specific management strategies should be implemented to insure achievement of hatchery goals and an orderly harvest of quality common property fish.
 - a Hatchery pink salmon broodstock captured.
 - b Hatchery pink salmon cost recovery fishery when necessary.
 - c Hatchery pink salmon common property fishery.
 - d Hatchery chum and/or early sockeye salmon broodstock captured.
 - e Hatchery chum and/or early sockeye salmon common property fishery.
 - f Hatchery coho and late sockeye salmon broodstock captured.
 - g Hatchery coho and late sockeye salmon common property fishery.

Appendix K.2. Primary management species and fishery chronology of the Eastside Afognak Management Plan for the Kodiak Management Area, 1993.

Appendix K.3. Summary of the salmon returns to the Kitoi Bay Hatchery of the Kodiak Management Area, 1993.

	Total Harvest ^a		Hatchery Contribution			
			Est. Percent of Total ^b		Est. Number of Fish	
	Pink	Chum	Pink	Chum	Pink ^c	Chum ^d
Common Property Harvest						
Kitoi Bay Section	722,504	559	100%	100%	722,504	559
Izhut Bay Section	6,145,313	4,781	90%	100%	5,530,782	4,781
Duck Bay Section	5,200,544	6,536	70%	100%	3,640,381	6,536
S.E. Afognak Section	<u>15,414</u>	<u>84</u>	60%	100%	<u>9,248</u>	<u>84</u>
Cost Recovery Harvest	0	0	100%	100%	0	0
Broodstock/Escapement	318,546	9,447	100%	100%	318,546	9,477
TOTAL	12,402,321	21,437	-	-	10,221,461	21,437

^a Harvest information from Fish Ticket summaries.

^b Percent of total harvest estimated to be from hatchery pink and chum salmon from tagging studies conducted in 1981 and 1982 (Probasco, personal communications 1993).

^c The total 1993 pink salmon hatchery return of 12,402,321 adults resulted from a fry release in the spring of 1992 of approximately 139.5 million pen reared (fed) fry and 7.6 million volitionally released (unfed) fry.

^d The Kitoi Bay hatchery contribution to the chum salmon harvest in those management units near the hatchery is estimated at only 600 chum salmon, well below the contribution estimates made by using past tagging data.

APPENDIX L

Crescent Lake Coho Salmon Management Plan (5AAC 18.364)

Appendix L.1. Narrative account of the Crescent Lake coho salmon fishery in the Kodiak Management Area, 1993.

The Crescent Lake Coho Salmon Management Plan (5AAC 18.364), as adopted by the BOF in 1990, deals with the subsistence, sport, and commercial harvest of coho salmon stocked into Crescent lake, near the city of Port Lions (Figure 2, and Appendix C.1. page 8). Coho smolt were first stocked into this lake in 1988 by ADF&G, to increase sport and subsistence fishing opportunities. Since returning coho can not get above a barrier fall in Crescent Creek, this is intended as a put-and-take fishery, with all returning salmon harvested. This plan provides for commercial fisheries on coho salmon surplus to sport and subsistence needs. Beginning in 1993 the dates that this plan is in effect were modified to begin July 15 to allow harvest opportunities early in the season on sockeye salmon returning to Crescent Lake. Commercial fishing is not allowed in the area of Crescent Creek from July 15 until after September 10, and then only if there are 500 or more coho salmon in this area available for harvest.

In aerial surveys very few coho were seen in Settler Cove, so no special fisheries were prosecuted in accordance with this management plan.

APPENDIX M

Spiridon Lake Sockeye Salmon Management Plan (5AAC 18.366)

Appendix M.1. Narrative account of the Spiridon Lake sockeye salmon fishery in the Kodiak management Area, 1993.

The Spiridon Lake Sockeye Salmon Management Plan (5AAC 18.366) was adopted by the Board of Fisheries in January of 1993 (Appendix C.1. page 9). It provides for the full utilization of sockeye salmon returns from the Spiridon Lake enhancement project, while providing adequate protection to local wild stocks of Spiridon Bay. Again, this salmon stocking project is intended as a put-and-take project. Sockeye fry have been stocked into Spiridon Lake since 1989, and the return of adults to the lake is prevented by a large set of barrier falls in the river. Sockeye salmon returning are intended to be harvested in the existing fisheries along Kodiak's westside, but this plan provides for a terminal "special harvest area" and a strategy to harvest sockeye salmon which may escape the fishery and return to the river mouth.

Only 4,000 sockeye (mostly jack's) were expected to return in 1993. With the extensive pink salmon fishery along the westside of Kodiak in 1993 few sockeye "escaped" to Spiridon. However, in late August it was discovered that approximately 500 sockeye had returned to the mouth of the creek flowing from Spiridon Lake at Telrod Cove. Most of these fish were jack's. No special openings were prosecuted to harvest Spiridon sockeye salmon.

APPENDIX N

"Minor System" Sockeye Salmon Fisheries

INTRODUCTION

There are about 12 small sockeye systems in the KMA (Figure 2). Several of these minor sockeye systems were subject to directed fisheries in 1993, and will be briefly reviewed.

Saltery Sockeye Salmon Fishery

Saltery Creek (stream #259-415) is located in the Inner Ugak Section of the Eastside Kodiak District (Appendix A.6.). Run timing of this system is neither early or late, but falls mid season, beginning in late June and extending through early August (Barrett and Nelson, 1994). A fish counting weir is normally in place on this creek, which allows for accurate escapement monitoring, and more precise management of commercial fisheries to harvest salmon surplus to escapement needs. Escapement goals have been set for this system (Appendix B.1.). Though there is no regulatory Management Plan in effect for the area around Saltery Creek, there is a general management chronology for the Inner Ugak Section; which is directed toward sockeye salmon in June, is blended toward sockeye, pink and chum salmon from July 6-10, and is directed toward pink and chum salmon after July 10.

The Eastside Kodiak District was opened twice in June (June 14-15, and June 21-22), as is the normal practice to allow initial harvests of local indexed sockeye salmon. As also has been the practice in past years closed waters were reduced to the mouth of Saltery Creek, to allow an increased opportunity to harvest early Saltery sockeye. Only about 500 sockeye were harvested near the stream terminus during these two openings. The Saltery weir was installed June 23 and sockeye counts quickly added up (Figure 21). By July 3 the minimum escapement goal had been achieved, well ahead of the normal timing. It was felt that the run was either early or much stronger than expected.

The Inner Ugak Section opened in conjunction with the first three "general" pink salmon fisheries for most of the KMA (See previous section on the pink salmon fishery). Closed waters were reduced to the stream terminus during the first July period, July 6-9, to help mop up sockeye salmon in excess of escapement requirements. Almost 43,000 sockeye salmon and 18,500 pink salmon were harvested, and escapement of sockeye dropped off to several hundred per day by the end of the period. During the next two periods harvest of sockeye decreased and of pink salmon increased. However sockeye salmon continued to pass the weir in large numbers, averaging over 1000 per day through the end of July while pink escapements were only several hundred per day. The fourth "general" pink salmon opening was extended several times. In the Inner Ugak Section fishing was extended through August 27, and closed waters were reduced to within 1500 yards of the stream terminus effective August 4, to allow for at least minimum pink

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escapements to be met while increasing opportunity to harvest excess sockeye salmon.

Due to budget constraints the Saltery weir was closed on August 8. The sockeye escapement at the time was 77,126, well above the desired escapement of 40,000 (Figure 21). The pink salmon escapement was 32,368 counted past the weir plus an additional 59,000 pink salmon were estimated to be spawning below the weir, bringing the total indexed escapement to 92,078 (Table 23). The total sockeye harvest in the Inner and Outer Ugak Section was 68,557 (Appendix P).

Afognak River Sockeye Salmon Fishery

The Afognak River (stream #252-342, also known as Litnik) is located in the Southeast Afognak Section (Appendix A.2.). Run timing of this system is basically early, beginning in late May and extending through early August, with the majority of the escapement passing into the stream in mid June (Barrett and Nelson, 1994). A fish counting weir is normally in place on this creek, which allows for accurate escapement monitoring, and more precise management of commercial fisheries to harvest salmon surplus to escapement needs. Escapement goals have been set for this system (Appendix B.1.), and management of the Southeast Afognak Section is directed toward sockeye salmon through July 15, toward local pink salmon from July 16 to August 24, and is directed toward coho salmon after August 25. This section is managed under the regulatory Eastside Afognak Management Plan (Appendix K).

The Litnik weir was installed May 23 and sockeye counts began to increase after June 3. The escapement surpassed the lower interim goal on June 3 and approached the upper interim goal on June 8 (Figure 21). Daily escapements were averaging over 2,000 sockeye per day by June 13. It was felt that the run was stronger than expected. The Southeast Afognak Section was to be opened twice in June (June 14-15, and June 21-22), as is the normal practice to allow initial harvest of minor sockeye systems. The closed water markers were moved in (reduced) to allow an increased opportunity to harvest sockeye. There was little effort in the Southeast Afognak Section during these periods so less than 800 sockeye salmon were harvested. Sockeye escapement surpassed the lower season goal (40,000) on June 22, daily escapements averaged over 1,000 sockeye per day, but there was only about 4,000 sockeye built up in the lagoon (as estimated by the weir crew). It appeared that new sockeye were moving quickly through the lagoon and past the weir.

By June 28 it was decided that the biological escapement goal for the Afognak River system was assured, and so the Southeast Afognak Section opened until further notice effective June 29, and

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closed water markers were reduced to provide greater opportunity. However effort continued to be light. The Southeast Afognak fishery was allowed to extend through the first general pink salmon fishery, closing July 9. The sockeye escapement at that time was 63,000, just over the season goal (60,000), and harvest was approximately 1,800 sockeye. Management at that time switched toward pink salmon, with the Southeast Afognak Section opening in conjunction with the majority of the KMA during general pink salmon fisheries. the Litnik weir was pulled September 11 and the total sockeye escapement was 71,460 (Figure 21). At seasons end the total sockeye harvest from the Southeast Afognak Section was 1,848 (Appendix P).

Other Minor Sockeye Systems

The Uganik River (stream # 253-122) is located in the Inner Uganik Bay Section Appendix A.3.). Run timing of this system is neither early nor late, but falls mid season, beginning in mid June and extending through early August, with the majority of the escapement coming in late June to early July (Barrett and Nelson, 1994). A fish counting weir has been used infrequently on this system, but because of the difficulties in operation of this weir and the constraints in the KMA management budget no weir was installed in 1993. Sockeye escapements were estimated by aerial survey. Escapement goals have been set for this system (40,000 to 60,000; Appendix B.1), and management is regulated by the BOF approved Westside Kodiak Management Plan (Appendix I). The Inner Uganik Bay Section opened during the initial general sockeye salmon fishing period, June 9-10, along with most of the westside of Kodiak. Catches were fair, with 2,651 sockeye taken in this section alone. Catches along the westside of Kodiak were strong, and escapements into the major sockeye system of the area, the Karluk River, were very good. Concern for the Uganik sockeye run led to a continued closure in the Inner Uganik Bay Section, to provide for a larger closed water sanctuary. Fishing in most sections along the westside resumed June 14 and continued through July 9. Early aerial escapement estimates for the Uganik system showed a weak return and no further fishing was allowed in that section through July 13. The peak aerial estimate was made on July 9, with 33,000 sockeye estimated in the lake.

The Malina and Little River systems (stream #251-105 and stream #253-115) are also located in sections managed under the Westside Kodiak Management Plan. The terminal areas for both streams are located in sections which are managed based on the sockeye returning to Karluk. Separating out the catches of Malina and Little River sockeye salmon is difficult since many of these fish are harvested during fisheries open to harvest Karluk bound sockeye. Estimates using age compositions and scale analysis may be attempted in future publications. Escapements into the Malina River are monitored by weir and totaled 8,273 sockeye for the season, compared to the goals of 5,000 to 10,000 (Figure 22). Escapements into the Little River are estimated by aerial survey and the peak count was 6,100 sockeye (compared to the goals of 15,000 to 25,000).

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Akalura Creek (stream # 257-302) is located in a normally closed water section of Olga Bay, in the Inner Akalura Section. Run timing of this stock is bimodal, with a small early segment from late May to early July, and a later run from late July through September, with the majority coming in mid to late August (Barrett and Nelson, 1994). These sections are managed in accordance with the Alitak Bay District Management Plan (Appendix H). These sections can only open if there is a large sockeye escapement, in excess of established goals. Escapement into Akalura is monitored by weir. The return of sockeye salmon to Akalura in 1993 was very weak. Through July 15 (the timing of the "early run") only 1,806 passed the weir (the early run goal is 10,000 to 15,000). The late run to Akalura was also weak, and by seasons end only 30,692 total sockeye had escaped into the system (the total escapement goal is 40,000 to 60,000) (Figure 23). There were no directed fisheries targeting Akalura bound sockeye, but undoubtedly some were caught in the Alitak Bay District fisheries. Estimates of harvest of Akalura bound sockeye, using age compositions and scale analysis, will be made in future publications.

The Buskin River (stream #259-211) is located in the Buskin River Section, near the city of Kodiak (Appendix A.4.). The sockeye returning to this system are fully utilized by subsistence and sport harvesters, and is not normally subject to directed commercial fisheries. In 1993, this was again the case. Escapement totaled 9,526 sockeye salmon, just below the goal of 10,000 to 15,000 (Figure 22).

Pauls and Portage Creeks (stream #251-831 and stream #251-825) are located in the Perenosa Bay Section on the north end of Afognak Island. Run timing of these systems is basically early, beginning in late May and extending through early August, with the majority of the escapement passing into the streams in late June (Barrett and Nelson, 1994). Fish counting weirs have been placed on these creeks. Escapements into both systems were below the established goals so no directed fisheries were allowed in this section in June. Escapement totaled 12,442 into Pauls Creek (the total season goal is 20,000 to 40,000), and 5,363 into Portage Creek (the escapement goal is from 5,000 to 10,000 for the season).

APPENDIX O

Escapement Counts

Appendix O.1. Indexed peak salmon escapement by District and species, in the Kodiak Management Area, 1993.

District	Number of Fish					Number of Observations
	Sockeye	Pink	Chum	Coho	Chinook	
Afognak	102,589	407,757	74	26,702	9	49
Northwest	47,904	1,037,525	47,900	16,335	0	110
Southwest	943,625	131,669	1,553	28,707	21,763	19
Alitak	458,485	949,662	23,742	21,205	337	49
Eastside	96,586	873,258	63,900	22,137	9	128
Northeast	9,526	432,300	10,422	8,610	10	70
Mainland	46,725	459,410	86,790	36,300	0	68
TOTAL	1,705,440	4,291,581	234,381	159,996	22,128	493

Appendix O.2. Key to stream names in the Kodiak Management Area, 1993.

Number	Name	Number	Name
251-101	SELIEF	251-813	BIG FORT CREEK
251-102	WASKANARESKA CREEK	251-821	BIG WATERFALL
251-103	MUSKOMEE BAY	251-822	LITTLE WATERFALL
251-104	DOLPHIN CREEK	251-823	DELPHIN ISLAND
251-105	MALINA RIVER	251-824	DELPHIN BAY
251-106	IRON CREEK	251-825	PORTAGE CREEK
251-108	DRIVER BAY	251-826	DISCOVERY BAY CREEK
251-109	HERRING CAMP CREEK	251-827	BEAN CREEK
251-201	MALKA BAY	251-828	OTTER CREEK
251-202	MALINA BAY	251-829	ELK CREEK
251-203	CAPE CREEK	251-830	CABIN CREEK
251-204	SIDE CREEK	251-831	PAUL'S BAY
251-205	HUNT CREEK	251-832	BARNYARD CREEK
251-206	MARKER CREEK	251-901	SEAL BAY CREEK
251-207	SITE CREEK	251-902	SOUTH CREEK
251-208	OUTSIDE CREEK	251-903	ROCKY BAY CREEK
251-30	PARAMANOF BAY	252-101	LONG TONKI
251-301	LONG LAGOON	252-102	SHORT TONKI
251-302	THORSHEIM CREEK	252-103	TONKI CAMP CREEK
251-403	SOUTH ARM CREEK	252-104	TONKI FALLS CREEK
251-404	EAST ARM CREEK	252-30	IZHUT BAY
251-405	OLD CABIN CREEK	252-301	EAST SAPOSA CREEK
251-406	HIDDEN LAKE CREEK	252-302	GRASSY LAGOON CREEK
251-407	LONG CANYON CREEK	252-303	UNNAMED
251-501	DEVILS INLET CREEK	252-305	UNNAMED
251-502	BLUEFOX CREEK	252-306	SAPOSA BAY
251-503	ESTER LAGOON CREEK	252-307	RUTH BAY
251-504	S.W. REDFOX CREEK	252-308	BARRIER CREEK
251-505	S.E. REDFOX CREEK	252-309	LEFT HAND BAY
251-506	CROSSFOX CREEK	252-31	DUCK BAY
251-507	CATARACT CREEK	252-315	STANLEY'S CREEK
251-508	POOR CREEK	252-316	IRENE'S CREEK
251-509	FRENCH'S CREEK	252-317	HERMIT'S CREEK
251-510	HANDER CREEK	252-318	McDONALD'S LAGOON
251-60	BIG BAY	252-319	LITTLE AFOGNAK
251-601	BIG BAY CREEK	252-32	KITOI BAY
251-602	HIDDEN COVE CREEK	252-323	LITTLE KITOI
251-603	BLUEBERRY CREEK	252-324	BIG KITOI
251-701	SHANGIN NARROWS	252-33	DANGER BAY
251-702	WEST SHANGIN BAY	252-331	N.E. DANGER CREEK (Coal Creek)
251-703	EAST SHANGIN BAY	252-332	BIG DANGER
251-705	CARRY BEAR CREEK	252-333	EAST DANGER CREEK
251-706	WHITEY'S HOLE	252-334	OLD BEAVER CREEK
251-811	BACK BAY CREEK	252-335	N.W. DANGER CREEK
251-812	ANDERSON BAY CREEK	252-337	P-A CREEK

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Appendix O.2. (page 2 of 5)

Number	Name	Number	Name
252-338	STEEP CREEK	254-402	CLOVER ROCK
252-339	CRACK CREEK	254-403	TELROD COVE
252-341	BACK BAY	254-404	CHIEF COVE
252-342	AFOGNAK RIVER	254-405	CAPE KULIUK
252-343	MARKA BAY	255-10	KARLUK LAGOON
252-345	CORT'S CREEK	255-101	KARLUK RIVER
252-352	LITNIK	255-102	CAPE UYAK
253-114	CAMPBELL LAGOON	256-101	LOW CAPE
253-115	LITTLE RIVER	256-102	N. LOW CAPE
253-12	UGANIK BAY	256-201	RED RIVER (Ayakulik)
253-121	S. ARM UGANIK	256-202	OLD RED RIVER
253-122	UGANIK RIVER	256-301	CARAMEL CREEK
253-141	CAPE UGANIK CREEK	256-302	HALIBUT BAY
253-142	UNNAMED	256-303	GRANT'S LAGOON CREEK
253-311	FAWN CREEK	256-401	STURGEON RIVER
253-313	COHO CREEK	256-402	EAST STURGEON RIVER
253-321	VIEKODA CREEK	257-10	SUKHOI LAGOON
253-322	EAST VIEKODA CREEK	257-101	LITTLE SUKHOI
253-331	TERROR RIVER	257-102	BIG SUKHOI
253-332	BAUMANN'S	257-30	OLGA BAY
253-333	CLARA'S CREEK	257-301	STEEP CREEK
253-351	DRY SPRUCE CREEK	257-302	AKALURA CREEK
253-352	CHERNOF POINT CREEK	257-303	SILVER SALMON CREEK
254-103	7-MILE BEACH	257-304	UPPER STATION
254-104	DORA'S CREEK	257-305	LITTLE DOG SALMON
254-105	UNNAMED	257-306	TUNDRA CREEK
254-20	UYAK BAY	257-400	DOG SALMON FLATS
254-201	UYAK 201 CREEK	257-401	NARROWS CREEK
254-202	UYAK RIVER	257-402	HORSE MARINE
254-203	EAST UYAK CREEK	257-403	DOG SALMON
254-204	BROWN'S LAGOON	257-404	TALIFSON'S CREEK
254-205	ISLAND'S CREEK	257-405	CHIP COVE CREEK
254-206	SHORT CREEK	257-406	SNUG COVE CREEK
254-207	LONG CREEK	257-407	AKHIOK CREEK
254-208	CABIN CREEK	257-408	KEMPF BAY CREEK
254-209	GWEN'S CREEK	257-50	DEADMAN BAY
254-210	TRAP CREEK	257-502	DEADMAN RIVER
254-211	MARKER CREEK	257-503	ALPINE COVE CREEK
254-212	RUINS CREEK	257-504	HELLEN CREEK
254-213	LARSEN BAY CREEK (Dora's Creek)	257-60	PORTAGE/SULUA BAY
254-30	ZACHAR BAY	257-601	N.E. PORTAGE
254-301	ZACHAR RIVER	257-602	SULUA PINK CREEK
254-302	N.E. ZACHAR CREEK	257-603	SULUA CHUM CREEK
254-401	SPIRIDON RIVER	257-604	TOM'S CREEK

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Appendix O.2. (page 3 of 5)

Number	Name	Number	Name
257-605	EAST PORTAGE CREEK	258-54	KAIUGNAK BAY
257-701	HUMPY RIVER	258-541	KAIUGNAK POINT
257-702	SHAG BLUFF CREEK	258-542	KAIUGNAK LAGOON
257-703	SEABORG BAY CREEK	258-543	AUNULA CREEK
258-101	BOULDER BAY	258-544	BRUIN CREEK
258-20	KILIUDA BAY	258-545	KAIUGNAKIK CREEK
258-201	SANTA FLAVIA	258-551	KIAVAK PORTAGE
258-202	SHEARWATER BAY CREEK	258-552	CAPE KIAVAK
258-203	PORT OTTER CREEK	258-553	KNOLL POINT CREEK
258-204	DOG BAY CREEK	258-554	KIAVAK LAGOON
258-205	COXCOMB POINT CREEK	258-555	KIAVAK SPIT
258-206	N. KILIUDA CREEK	258-601	JAP BAY
258-207	W. KILIUDA CREEK	258-602	KAGUYAK BAY CREEK
258-208	DUKALUK CREEK	258-603	KAGUYAK FOX CREEK
258-209	DEER CREEK	258-604	KAGUYAK BAY WEST
258-210	KILIUDA SPIT CREEK	258-701	SEVEN RIVERS
258-211	MARKER GROVE CREEK	258-702	WALTER'S CREEK
258-212	PIVOT POINT	258-703	TUNDRA LAKES CREEK
258-213	BEAR CAMP CREEK	258-704	SOW CREEK
258-301	AMEE BAY CREEK	258-705	MELAVEDOF CREEK
258-302	McCORD BEACH	258-706	KAGUYAK VILLAGE CRK.
258-303	LEFT CAPE CREEK	258-707	NO NAME
258-304	GHOST ROCKS CREEK	258-801	DOLINA POINT
258-305	NUT ISLAND CREEK	258-802	NORTH BEACH CREEK
258-306	BUSH POINT CREEK	258-803	WHIRLPOOL POINT
258-307	FUGITIVE CREEK	258-804	CAMP CREEK
258-308	BARNABAS CREEK	258-805	BEND CREEK
258-309	TANGINAK CREEK	258-806	OCEAN VIEW
258-310	RANCH CREEK	258-807	PYRAMID CREEK
258-401	OCEAN BEACH	258-808	STRIP CREEK
258-402	WEDGE CREEK	258-809	GLOTECLOSS CREEK
258-511	ROLLING BAY	258-851	PASSAGE CREEK
258-512	NATALIA BAY	258-852	SOUTH VIEW CREEK
258-513	NEWMAN BAY	258-853	TUGIDAK CREEK
258-514	NATALIA CABIN CREEK	258-901	RUSSIAN HARBOR
258-515	DRY CREEK	258-902	E. RUSSIAN CREEK
258-516	OUTSIDE CREEK	258-903	KEVIN CREEK
258-521	MIDWAY CREEK (Big Creek)	258-904	REEF CREEK
258-522	BARLING CREEK	259-101	MONASHKA CREEK
258-523	OLD HARBOR CREEK	259-102	PILLAR CREEK
258-524	LAGOON CREEK	259-105	VIRGINIA CREEK
258-531	WEST THREE SAINTS	259-21	WOMEN'S BAY
258-532	S.W. THREE SAINTS	259-211	BUSKIN RIVER
258-533	N.E. THREE SAINTS	259-221	SARGENT'S CREEK

-Continued-

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Number	Name	Number	Name
259-222	RUSSIAN RIVER	259-405	BARRY'S CREEK
259-223	SOLONIE CREEK	259-410	ZENTNER CREEK
259-224	PANAMAROF CREEK	259-411	PASAGSHAK RIVER
259-23	MIDDLE BAY	259-412	MIAM RIVER
259-231	AMERICAN RIVER	259-413	NOSE CREEK
259-232	HORSESHOE CREEK	259-414	HURST CREEK
259-233	SALT CREEK	259-415	SALTERY RIVER
259-234	SLOUGH CREEK	259-416	ROUGH CREEK
259-235	PEAT BEACH CREEK	259-417	WILD CREEK
259-242	SID OLDS	259-417A	SHORT SLOUGH CREEK
259-243	KALSIN CREEK	259-418	HIDDEN BASIN
259-244	FRANK'S CREEK	259-419	WEST BASIN CREEK
259-245	MYRTLE CREEK	259-420	GLOTTOF CREEK
259-246	MAYFLOWER BEACH	259-421	LAROSE BIGHT
259-251	ROSLYN CREEK	259-422	GOAT LAKE CREEK
259-252	TWIN CREEK	259-423	KILIUDA PASS CREEK
259-253	CAPELIN CREEK	259-424	EAGLE HARBOR
259-254	CHINIAK CREEK	259-425	BUCK CREEK
259-255	CHINIAK LAGOON	259-426	GULL POINT CREEK
259-362	CRESCENT CREEK	259-427	DELTA CREEK
259-363	BARABARA CREEK	259-428	GULL CAPE LAGOON
259-364	GOAT CREEK	262-101	DOUGLAS CREEK
259-365	KIZHUYAK RIVER	262-102	CLEAR CREEK
259-366	PESTCHANIE CREEK	262-103	MONUMENT CREEK
259-367	FEW CREEK	262-104	GLACIER LAKE CREEK
259-368	DOVOLNO CREEK	262-105	CALVING GLACIER CRK.
259-369	MORE CREEK	262-106	TRIPLE LAKES CREEK
259-371	SHERATIN RIVER	262-107	LONG MUD CREEK
259-372	HORSE CREEK	262-108	PRODUCTIVE FORKS CR.
259-373	NEW CREEK	262-109	BLUFF CREEK
259-381	CORRAL CREEK	262-110	LONG SLOUGH CREEK
259-382	RED CLOUD CREEK	262-111	PARALLEL MUD CREEK
259-391	HOLLIE CREEK	262-112	SHORT SLOUGH CREEK
259-392	NEVA CREEK	262-113	BROAD VALLEY CREEK
259-393	AZIMUTH CREEK	262-151	SWIKSHAK RIVER
259-394	SEREDNI POINT CREEK	262-152	BIG RIVER
259-395	MONK'S LAGOON	262-153	VILLAGE CREEK
259-397	SOLDIER'S BAY	262-154	CHINIAK LAGOON
259-398	BALIKA BASIN	262-155	WOLF CREEK
259-399	KNEE BAY CREEK	262-20	HALLO BAY
259-401	SACRAMENTO RIVER	262-201	NINAGIAK CREEK
259-402	TWIN PEAKS CREEK	262-202	HOOK CREEK
259-403	VALLEY CREEK	262-203	SERPENT CREEK
259-404	BURTON CREEK	262-204	HALLO CREEK

-Continued-

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Number	Name	Number	Name
262-205	CAPE CHINIAK CREEK	262-752	DRY BAY
262-206	OLE'S CREEK	262-801	JUTE CREEK
262-207	LITTLE NINAGIAK	262-802	KANATAK
262-25	KUKAK BAY	262-803	SALMON CREEK
262-253	DEVIL'S LAKE CREEK	262-804	LOG JAM CREEK
262-254	YUGNAK CREEK	262-85	WIDE BAY
262-255	STARFISH CREEK	262-850	LITTLE BIG CREEK
262-256	SOURCE CREEK	262-851	BIG CREEK
262-271	KUKAK CREEK	262-852	DES MOINES CREEK
262-272	KUKAK VALLEY CREEK	262-853	PASS CREEK
262-273	INSIDE CREEK	262-854	SHORT CREEK
262-301	KAFLIA CREEK	262-855	HIDDEN CREEK
262-351	HALFERTY CREEK	262-856	SPIT CREEK
262-352	WEISS CREEK	262-857	ALAI CREEK
262-401	SANDY CREEK	262-858	KIALAGVIK CREEK
262-402	MISSAK CREEK	262-859	ICY PEAK CREEK
262-451	KINAK CREEK	262-860	SLOUGH CREEK
262-452	W. HIDDEN HARBOR	262-861	KAYAKLIUT CREEK
262-453	LOW PASS CREEK	262-862	POINT CREEK
262-501	GEOGRAPHIC CREEK	262-863	WIND SHEAR CREEK
262-502	AVALANCHE CREEK	262-864	BEACH CREEK
262-503	GIEGERICH CREEK	262-865	TINY CREEK
262-504	RIED CREEK	262-866	W. COAL CREEK
262-505	THEIS CREEK	262-951	IMUYA CREEK
262-551	DAKAVAK	262-952	CIRC CREEK
262-552	ATMO CREEK	272-963	KILOKAK CREEK
262-601	KATMAI CREEK		
262-602	ALOGOGSHAK CREEK		
262-603	CLAM CREEK		
262-604	KASHVIK CREEK		
262-605	WRECKAGE CREEK		
262-606	SKIMPY CREEK		
262-607	ATMO CREEK		
262-651	BIG ALINCHAK		
262-652	LITTLE ALINCHAK		
262-653	PTERODACTYL CREEK		
262-654	BEAR BAY CREEK		
262-655	BEAR LAKE CREEK		
262-656	WEST BEAR CREEK		
262-701	HELEN CREEK		
262-702	PORTAGE CREEK		
262-703	TERESA CREEK		
262-704	TRAIL CREEK		
262-705	KATIE CREEK		
262-706	PUALE CREEK		
262-751	OIL CREEK		

Appendix O.3. Index peak salmon escapement counts for the Afognak District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
251-105	8,273	2,202	0	-	4	8/10	Weir Count	
251-404	0	8,900	0	0	0	7/22	Prokopowich	1
251-406	1	6,000	0	500	0	8/23	Watchers	1
251-502	0	165	0	0	0	8/26	Bowers	2
251-503	0	68	0	0	0	8/26	Bowers	2
251-504	0	8,400	0	175	0	8/27	Emerson	2
251-505	0	44,500	0	0	0	8/27	Emerson	3
251-506	0	1,960	0	0	0	8/27	Emerson	1
251-510	0	2,539	0	0	0	8/26	Bowers	2
251-601	85	1,760	0	2,281	0	9/25	Weir Count	
251-602	3	11	0	150	0	8/18	Murphy	1
251-702	0	5,500	0	0	0	8/17	Brennan	1
251-705	11	620	0	2,048	0	9/12	Weir Count	
251-706	0	0	0	0	0	8/17	Brennan	1
251-707	0	0	0	150	0	9/06	Murphy	1
251-821	0	10,000	0	0	0	8/02	Prokopowich	1
251-822	39	121,035	0	0	1	8/24	Kansteiner	5
251-825	5,363	0	0	0	0	7/15	Weir Count	
	-	20,000	0	2,500	0	8/17	Brennan	2
251-826	0	181	0	1	0	8/28	Bowers	1
251-827	0	734	0	100	0	8/28	Bowers	1
251-828	0	4,759	0	225	0	8/28	Bowers	1
251-829	0	1,167	0	10	0	8/28	Bowers	1
251-831	12,442	3,996	0	10,664	1	9/01	Weir Count	
251-901	0	10,910	0	0	0	8/29	Bowers	2
251-902	0	558	0	1	0	8/29	Bowers	1
252-302	0	2,000	0	0	0	8/20	Brennan	2
252-306	0	12,000	0	0	0	8/20	Brennan	3
252-307	0	10,000	0	0	0	8/20	Brennan	1
252-309	0	500	0	0	0	8/20	Brennan	2
252-323	4,912	362	0	160	0	8/27	Weir	
	-	25,000	0	1,000	0	9/15	Joyce	1
252-324	0	30,000	0	0	0	9/15	Joyce	1
252-331	0	12,500	0	0	0	8/02	Prokopowich	
	0	0	0	100	1	8/24	Bowers	3
252-332	0	37,600	0	0	0	8/17	Brennan	
	0	-	74	0	0	8/23	Bowers	3
252-342	71,460	21,830	0	6,637	2	9/11	Weir Count	
	102,589	407,757	74	26,702	9			49

Appendix O.4. Index peak salmon escapement counts for the Northwest Kodiak District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
253-115	6,100	0	0	0	0	6/21	Brennan	
	-	36,000	0	0	0	9/10	Brennan	
	-	-	0	4,400	0	9/13	Prokopowich	11
253-121	0	0	3,500	0	0	7/21	Prokopowich	
	0	2,600	0	0	0	8/17	Prokopowich	4
253-122	33,000	0	0	0	0	7/09	Prokopowich	
	-	158,000	0	0	0	8/17	Prokopowich	
	-	-	10,000	0	0	9/10	Brennan	
	-	14,275	0	0	0	9/22	Schwarz	
	0	0	0	1,200	0	10/12	Chatto	20
253-331	0	-	6,100	0	0	7/27	Brennan	
	0	197,500	-	0	0	8/17	Prokopowich	
	0	0	0	10	0	10/12	Chatto	9
253-332	0	7,800	0	0	0	7/27	Brennan	
	0	21,500	0	0	0	9/10	Brennan	5
253-333	0	3,000	0	0	0	9/10	Brennan	1
254-202	0	1,200	0	0	0	7/13	Prokopowich	
	0	170,000	0	0	0	8/17	Prokopowich	
	0	7,500	500	1,125	0	9/22	Schwarz	11
254-203	0	2,000	0	0	0	7/13	Prokopowich	
	0	126,000	0	0	0	8/17	Prokopowich	8
254-204	0	7,500	0	0	0	8/17	Prokopowich	1
254-301	0	3,000	-	0	0	7/13	Prokopowich	
	0	121,000	20,000	0	0	8/17	Prokopowich	
	0	500	-	6,750	0	9/22	Schwarz	11
254-302	0	4,300	0	0	0	8/05	Brennan	2
254-401	0	34,000	-	0	0	8/05	Brennan	
	0	-	5,000	-	0	9/10	Brennan	
	4	-	-	-	0	9/22	Schwarz	
	0	0	0	2,250	0	10/27	Johnson	8
254-403	3,500	0	0	0	0	9/03	Probasco	1
259-362	0	0	300	150	0	9/10	Brennan	1
259-363	5,300	0	0	0	0	7/27	Gretsch	4
259-365	0	-	500	0	0	8/05	Brennan	
	0	63,000	-	0	0	8/09	Gretsch	4
259-366	0	150	0	0	0	8/09	Gretsch	1
259-371	0	41,000	0	0	0	8/09	Gretsch	
	0	-	2,000	0	0	9/10	Brennan	5
259-395	0	0	0	450	0	9/12	Probasco	1
259-397	0	15,700	0	0	0	8/09	Gretsch	2
	47,904	1,037,525	47,900	16,335	0			110

Appendix O.5. Index peak salmon escapement counts for the Southwest Kodiak District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
255-101	657,455	101,672	142	19,362	13,944	9/29	Weir Count	4
256-201	286,170	29,597	36	-	7,819	8/29	Weir Count	
	0	0	0	8,440	0	9/01	Chatto	4
256-301	0	0	0	85	0	11/03	Johnson	1
256-401	0	0	875	0	0	7/21	Brennan	
	0	400	-	0	0	9/03	Prokopowich	
	0	0	0	820	0	9/22	Schwarz	9
256-402	0	0	500	0	0	7/21	Schwarz	1
	943,625	131,669	1,553	28,707	21,763			19

Appendix O.6. Index peak salmon escapement counts for the Alitak Bay District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
257-101	0	0	0	0	0	7/27	Brennan	1
257-102	0	0	7,050	0	0	7/27	Brennan	
	0	0	0	1,300	0	9/23	Johnson	5
257-302	30,692	12,928	11	4,505	0	9/05	Weir Count	
257-303	3,800	0	0	0	0	7/26	Zweilhoffer	
	-	50	0	0	0	8/11	Hander	
	0	0	0	500	0	9/22	Schwarz	4
257-304	222,381	21,829	3	6,580	0	9/11	Weir Count	
257-402	3,200	0	0	0	0	8/17	Prokopowich	
	-	0	0	715	0	9/22	Schwarz	6
257-403	198,412	161,255	4,158	4,985	337	8/29	Weir Count	
257-502	0	125,000	0	0	0	8/17	Prokopowich	
	0	7,900	0	300	0	9/22	Schwarz	9
257-503	0	-	20	0	0	8/02	Hander	
	0	14,000	0	0	0	8/08	Prokopowich	
	0	2,200	0	20	0	9/22	Schwarz	3
257-504	0	15,000	0	0	0	8/08	Prokopowich	1
257-601	0	20,000	8,000	0	0	9/09	Sarafin	4
257-602	0	25,000	0	0	0	8/08	Prokopowich	1
257-603	0	7,000	-	0	0	8/08	Prokopowich	
	0	12,500	4,500	0	0	9/09	Sarafin	
	0	0	0	950	0	9/23	Johnson	6
257-701	0	525,000	0	0	0	8/17	Prokopowich	
	0	0	0	1,350	0	9/23	Johnson	9
	458,485	949,662	23,742	21,205	337			49

Appendix O.7. Index peak salmon escapement counts for the Eastside Kodiak District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
258-101	0	1,700	0	0	0	8/17	Gretsch	2
258-201	0	300	0	0	0	8/17	Gretsch	1
258-202	0	15,000	0	0	0	9/13	Brennan	3
258-203	0	0	0	0	0	8/17	Gretsch	1
258-204	0	0	5,200	0	0	9/13	Brennan	4
258-205	0	0	6,550	0	0	9/13	Brennan	4
258-206	0	11,400	5,000	0	0	8/17	Gretsch	2
258-207	0	22,500	-	0	0	8/08	Prokopowich	
	0	23,500	3,500	0	0	9/13	Brennan	
	0	0	0	800	0	10/13	Chatto	11
258-208	0	0	4,000	0	0	9/09	Sarafin	2
258-209	0	0	0	0	0	8/08	Prokopowich	1
258-210	0	0	150	0	0	9/13	Brennan	1
258-211	0	0	0	0	0	7/30	Gretsch	1
258-213	0	250	0	0	0	9/13	Brennan	1
258-304	0	0	0	0	0	7/30	Gretsch	1
258-305	0	0	0	0	0	7/30	Gretsch	1
258-401	2,200	0	0	0	0	7/15	Prokopowich	1
258-511	0	92,300	0	0	0	8/23	Prokopowich	
	0	-	2,500	0	0	9/09	Sarafin	2
258-512	0	300	0	0	0	8/23	Prokopowich	1
258-513	0	550	0	0	0	8/23	Prokopowich	1
258-514	0	200	0	0	0	8/23	Prokopowich	1
258-515	0	0	0	0	0	8/23	Prokopowich	1
258-521	0	24,450	0	0	0	7/27	Zweilhooffer	
	0	24,000	1,500	5,000	0	9/13	Brennan	7
258-522	0	70,000	0	0	0	8/08	Prokopowich	
	0	45,730	500	1,500	0	9/13	Brennan	12
258-523	0	650	200	200	0	9/13	Brennan	1
258-531	0	200	0	0	0	8/12	Hander	
	0	150	0	0	0	9/23	Johnson	2
258-532	0	150	0	0	0	9/23	Johnson	2
258-541	0	45,000	0	0	0	8/23	Prokopowich	
	0	0	0	300	0	10/18	Barnes	5
258-542	0	100,000	0	0	0	8/23	Prokopowich	6
258-544	0	10,000	0	0	0	8/23	Prokopowich	2
258-551	0	5,600	0	0	0	8/17	Prokopowich	
	0	-	50	0	0	9/09	Sarafin	4
258-601	0	0	0	1,450	0	10/18	Barnes	1
258-602	0	22,000	200	0	0	8/17	Prokopowich	3
258-603	0	8,000	500	0	0	8/17	Barnes	1
258-701	0	100	0	0	0	7/15	Prokopowich	
	0	71,000	0	0	0	8/17	Prokopowich	
	0	0	0	450	0	10/18	Barnes	8
258-702	0	800	0	0	0	7/30	Gretsch	1
258-704	0	300	0	0	0	7/30	Gretsch	1
258-903	0	300	0	0	0	7/30	Gretsch	1
259-411	16,000	300	0	0	0	7/15	Gretsch	
	0	0	0	1,337	0	11/06	Pope	4
259-412	-	7,500	0	0	0	7/15	Prokopowich	
	1,200	25,000	0	0	0	8/23	Prokopowich	
	0	-	0	4,700	0	9/13	Brennan	6
259-414	0	6,000	0	0	0	9/13	Brennan	1
259-415	77,186	92,078	-	-	9	8/08	Weir Count	
	0	48,000	5,000	3,500	0	9/13	Brennan	4
259-418	0	0	0	0	0	8/05	Brennan	1
259-419	0	0	0	0	0	8/05	Brennan	1
259-420	0	0	0	0	0	8/05	Brennan	1
259-422	0	1,200	0	0	0	8/05	Brennan	1
259-423	0	2,650	0	0	0	8/05	Brennan	1
259-424	0	44,000	-	0	0	8/08	Prokopowich	
	0	50,100	11,000	2,900	0	9/13	Brennan	4
259-428	0	0	18,050	0	0	9/13	Brennan	4
	96,586	873,258	63,900	22,137	9			128

Appendix O.8. Index peak salmon escapement counts for the Northeast Kodiak District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
259-101	0	3,600	0	0	0	8/17	Gretsch	
	0	0	0	145	0	10/05	Sportfish	5
259-102	0	6,200	0	0	0	8/17	Gretsch	
	0	0	0	69	0	10/13	Sportfish	5
259-105	0	300	0	0	0	8/05	Gretsch	2
	0	0	0	8	0	10/05	Sportfish	2
259-211	-	6,500	0	0	0	8/09	Gretsch	
	-	56,000	0	-	0	9/13	Brennan	8
	9,526	-	22	6,813	10	9/29	Weir Count	
259-221	0	14,500	0	0	0	8/09	Gretsch	
	0	0	0	83	0	10/02	Sportfish	5
259-222	0	17,500	700	0	0	8/09	Gretsch	
	0	0	0	133	0	10/03	Sportfish	5
259-223	0	52,500	0	0	0	8/09	Gretsch	
	0	0	0	274	0	10/18	Sportfish	6
259-224	0	0	0	0	0	8/20	Brennan	1
259-231	0	13,000	0	0	0	8/09	Gretsch	
	0	52,700	2,000	0	0	9/10	Brennan	
	0	0	0	412	0	10/20	Sportfish	8
259-233	0	3,000	0	0	0	8/09	Gretsch	1
259-242	0	58,000	0	0	0	8/05	Gretsch	
	0	-	7,000	0	0	8/17	Gretsch	
	0	35,000	-	-	0	9/10	Brennan	
	0	0	0	525	0	10/05	Sportfish	8
259-245	0	5,300	0	0	0	8/05	Gretsch	1
259-251	0	21,000	700	0	0	8/05	Gretsch	
	0	0	0	148	0	10/15	Sportfish	6
259-252	0	12,000	0	0	0	8/17	Gretsch	2
259-253	0	0	0	0	0	7/30	Gretsch	1
259-254	0	74,000	0	0	0	8/05	Gretsch	3
259-255	0	1,200	0	0	0	8/17	Gretsch	1
	9,526	432,300	10,422	8,610	10			70

Appendix O.9. Index peak salmon escapement counts for the Mainland District, by stream and species, 1993.

Stream	Number of Fish					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
262-151	28,000	0	0	0	0	7/22	Prokopowich	
	0	0	0	31,000	0	9/13	Prokopowich	3
262-152	0	59,000	18,000	0	0	8/17	Brennan	
	0	0	0	2,900	0	9/13	Prokopowich	4
262-153	0	1,360	21,540	0	0	8/02	Prokopowich	4
262-154	0	0	4,000	0	0	8/17	Brennan	3
262-204	0	0	3,500	0	0	8/02	Prokopowich	1
262-205	0	1,800	0	0	0	8/02	Prokopowich	2
262-207	0	0	0	0	0		Prokopowich	1
262-271	0	1,500	-	0	0	8/09	Brennan	
	0	0	12,000	0	0	9/13	Prokopowich	3
262-301	18,000	3,000	0	2,000	0	8/17	Brennan	3
262-351	450	0	0	0	0	7/22	Prokopowich	1
262-402	0	3,500	0	0	0	8/17	Brennan	3
262-451	0	4,700	-	0	0	8/09	Brennan	
	0	40,100	2,000	300	0	9/13	Prokopowich	4
262-501	0	200	0	0	0	8/02	Prokopowich	2
262-504	0	1,500	0	0	0	8/09	Brennan	2
262-551	0	2,500	0	0	0	8/02	Prokopowich	
	0	21,000	1,000	100	0	9/13	Prokopowich	5
262-602	0	0	0	0	0	8/09	Brennan	1
262-604	0	-	500	0	0	7/22	Prokopowich	
	0	55,000	0	0	0	8/09	Brennan	3
262-651	0	29,700	0	0	0	7/30	Brennan	2
262-652	0	6,000	0	0	0	7/30	Brennan	2
262-654	0	0	4,700	0	0	8/09	Brennan	1
262-655	275	0	0	0	0	7/22	Prokopowich	1
262-656	0	1,700	0	0	0	8/09	Brennan	1
262-702	0	7,300	0	0	0	7/30	Brennan	1
262-703	0	0	0	0	0	7/30	Brennan	1
262-704	0	0	0	0	0	7/30	Brennan	1
262-705	0	2,000	0	0	0	7/30	Brennan	1
262-751	0	14,000	0	0	0	7/30	Brennan	2
262-752	0	0	12,550	0	0	8/09	Brennan	1
262-801	0	2,150	0	0	0	8/09	Brennan	1
262-802	0	28,500	0	0	0	7/30	Brennan	1
262-850	0	5,000	0	0	0	8/09	Brennan	1
262-851	0	89,000	5,000	0	0	8/09	Brennan	2
262-852	0	40,000	2,000	0	0	8/09	Brennan	2
262-853	0	25,900	0	0	0	8/09	Brennan	1
262-854	0	13,000	0	0	0	8/09	Brennan	1
	46,725	459,410	86,790	36,300	0			68

Appendix O.10. Salmon escapement surveys for the Kodiak Management Area, 1993.

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
MALINA RIVER												
251-105	8-10	WEIR COUNT	E			8273	0	2202	0	-	-	Final weir count. Does not include estimate of fish behind weir ?? Plus four chinook salmon. Dates of operation 5/31 - 8/10. Peak Count.
EAST ARM CREEK												
251-404	7-22	PROKOPOWICH	G	G	G	0	0	1400	0	7500P	-	Time 12:15 hrs. Very low water flow. Incoming jumpers in bay. Peak Count.
HIDDEN LAKE CREEK												
251-406	8-23	WATCHERS	G	G	G	1	500	6000	0	-	-	Foot Survey. 3,000 to 4,000 pink salmon estimated in the lagoon on August 17. After period of rain water flow in creek doubled and all fish charges up. Fish observed all the way to barrier falls. Sockeye in small side stream. Peak Count.
BLUEFOX CREEK												
251-502	8-17	BRENNAN	G	G	G	0	0	0	0	-	-	Time 15:20 hrs.
251-502	8-26	BOWERS	E	E		0	0	155	0	10P	-	Foot survey. Peak Count.
ESTER LAGOON CREEK												
251-503	8-17	BRENNAN	G	G	G	0	0	0	0	-	-	Time 15:20 hrs.
251-503	8-26	BOWERS	E	E		0	0	41	0	25P	-	Foot survey. 1 pink mort in stream, 1 pink mort in mouth. No fish above falls. Peak Count.
S.W. REDFOX CREEK												
251-504	8-17	BRENNAN	G	G	G	0	0	1700	0	-	-	Time 15:15 hrs. Quick look.
251-504	8-27	EMERSON	G	G		0	125	8000	0	50Co 400P	-	Foot survey. Peak Count
S.E. REDFOX CREEK												
251-505	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	1500P	-	Time 13:00 hrs.
251-505	8-17	BRENNAN	G	G	G	0	0	0	0	-	-	Time 15:15 hrs. Quick look.
251-505	8-27	EMERSON	G	G		0	0	42500	0	2000P	-	Foot survey. Peak Count.
CROSSFOX CREEK												
251-506	8-27	EMERSON	F	F		0	0	800	0	1000P	-	Foot survey. 160 pink morts in stream. Peak Count.
HANDER CREEK												
251-510	8-17	BRENNAN	G	G	G	0	0	0	0	-	-	Time 15:20 hrs.
251-510	8-26	BOWERS	G	G		0	0	1006	0	1500P	-	Foot survey. 23 pink morts in stream; 10 pink morts in mouth. No fish above falls. Peak Count.
BIG BAY CREEK												
251-601	9-25	WEIR COUNT	E			85	2281	1760	0	-	-	Final weir count. Dates of operation 8/8 - 9/25. Peak Count

-Continued-

Appendix O.10. (page 2 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
HIDDEN COVE CREEK												
251-602	8-18	MURPHY	G	G		3	0	11	0	150Co	-	Foot survey. A lot less fish than last year. Peak Count.
WEST SHANGIN BAY												
251-702	8-17	BRENNAN		F	F	0	0	0	0	5500P	-	Time 15:05 hrs. No stream survey. Peak Count.
CARRY BEAR CREEK												
251-705	9-12	WEIR COUNT	E			11	2048	620	0	-	-	Final weir count. Dates of operation 8/8 - 9/12. Peak Count
WHITEY'S HOLE												
251-706	8-17	BRENNAN		F	F	0	0	0	0	1500Co	-	Time 15:10 hrs. No stream survey. Few coho around.
251 707	9- 6	MURPHY	G	G		0	150	0	0	-	-	Foot survey. Fish clear back in last lagoon. Peak Count.
BIG WATERFALL												
251-821	8- 2	PROKOPOWICH	E	E	E	0	0	0	0	10000P	-	Time 12:50 hrs. Low water in creek. Peak Count.
LITTLE WATERFALL												
251-822	8- 2	PROKOPOWICH		G	G	0	0	0	0	40000P	10000P	Time 12:45 hrs. Two seiners; not fishing now. Looks good. Bay fish outside markers to Big Waterfall.
251-822	8- 4	KANSTEINER	E	E	E	55	0	30905	0	30000P	10000P	Foot survey. In stream 28 pink carcasses. 40% of sockeye were jacks.
251-822	8-10	KANSTEINER	E	E	E	90	0	33772	0	50000P	15000P	Foot survey. In stream 166 pink morts. 50% of sockeye were jacks.
251-822	8-17	BRENNAN			F	0	0	0	0	-	5000P	Time 15:00 hrs. No stream survey. Quick look at fish outside.
251-822	8-24	KANSTEINER	G	G	G	39	0	92023	0	17000P	2000P	Foot survey. In stream 10,012 pink carcasses. 50% of sockeye were jacks. Peak Count.
PORTAGE CREEK												
251-825	7-15	WEIR COUNT	E			5363	0	0	0	-	-	Final weir count. Dates of operation 6/23 - 7/15. Sockeye Peak Count.
251-825	8- 2	PROKOPOWICH	G	G	G	0	0	4000	0	-	-	Time 12:35 hrs. Few scattered schools of pinks in bay.
251-825	8-17	BRENNAN	G	G	F	0	0	2000	0	8000P	2500Co 5000P	Time 14:55 hrs. Large number of fish in second lagoon; some jumpers on outside (coho?). Low water flow. Lots of carcasses-5,000+. Quick look at stream. Peak Count.
DISCOVERY BAY CREEK												
251 826	8-28	BOWERS	G	G		0	0	152	0	1Co	-	Foot survey. 29 pink morts. Peak Count.
BEAN CREEK												
251-827	8-28	BOWERS	G	G	G	0	4	514	0	200P	100Co	Foot survey. 20 pink morts. No fish above falls. Peak Count.

-Continued-

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Appendix O.10. (page 3 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
OTTER CREEK												
251-828	8-28	BOWERS	G	G		0	105	3728	0	120Co 1000P	-	Foot survey. 31 pink morts. Peak Count.
ELK CREEK												
251-829	8-28	BOWERS	G	G		0	0	1029	0	10Co 25P	-	Foot survey. 113 pink morts. Peak Count.
PAUL'S BAY												
251-831	9- 1	WEIR COUNT	E			12442	10664	3996	0	-	-	Final weir count. Includes estimates of fish behind weir but no estimate for time weir removed. Plus one chinook salmon. Dates of operation 6/10 -7/15 and 8/6 - 9/1. Peak Count.
SEAL BAY CREEK												
251-901	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	5500P	-	Time 12:25 hrs. Nothing seen in creek. Very low water. Fish off mouth very bright.
251-901	8-29	BOWERS	P	P		0	0	9000	0	25P	-	Foot survey. 885 pink morts in stream, 1,000 pink morts in mouth. High water, poor visibility. Fish pass not operational. Peak Count.
SOUTH CREEK												
251-902	8-29	BOWERS	F	F		0	0	212	0	300P	-	Foot survey. 1 coho mort; 31 pink morts in stream, and 15 pink morts in mouth. Peak Count.
GRASSY LAGOON CREEK												
252-302	8-20	BRENNAN	G	F	F	0	0	2000	0	-	-	Time 14:20 hrs. Very quick look. Peak Count.
252-302	8-30	BOWERS	P	P		0	0	97	0	-	-	Foot survey. High water, poor visibility. 1 pink mort.
SAPOSA BAY												
252-306	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	1500P	-	Time 12:15 hrs. Very low water in creek.
252-306	8-20	BRENNAN	G	G	F	0	0	2000	0	10000P	-	Time 14:25 hrs. Quick look. Only surveyed lower 1/4 mile. Peak Count.
252-306	8-29	BOWERS	G	G		0	0	2762	3	300P	-	Foot survey. High water. 72 pink morts.
RUTH BAY												
252-307	8-20	BRENNAN	G	F	F	0	0	0	0	10000P	-	Time 14:15 hrs. Peak Count.
LEFT HAND BAY												
252-309	8-20	BRENNAN	G	G	F	0	0	500	0	-	-	Time 14:25 hrs. Quick look. Peak Count.
252-309	8-29	BOWERS	G	G		0	0	28	0	15P	-	Foot survey. No fish above small falls. 1 pink mort.
LITTLE KITOI												
252-323	8-20	BRENNAN		G	G	0	0	0	0	5000P	-	Time 14:00 hrs. No stream survey. Little show right out front, all at net in front of Big Kitoi Creek and hatchery.
252-323	8-27	WEIR COUNT	E			4912	160	362	0	-	-	Final weir count. Dates of operation 6/1 - 8/27. Estimates of pinks behind weir and late coho provided by Tim Joyce 9/15. Peak Counts.

-Continued-

Appendix O.10. (page 4 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks	
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay		
252-323	9-15	JOYCE		E		0	0	0	0	1000Co 25000P	-	Estimate of fish left after weir pulled. Peak Count.	
BIG KITOI													
252-324	8-20	BRENNAN		G	G	0	0	0	0	100000P	389000P	Time 14:30 hrs. No stream survey. Lots of pinks from just outside jaws to net. "Mouth" fish at net - impressive!	
252-324	9-15	JOYCE		E	E	0	0	5000	0	25000P	-	Estimates of fish left after taking broodstock. "Mouth" fish at net or at weir. Peak Count.	
N.E. DANGER CREEK													
252-331	8-2	PROKOPOWICH		G	G	G	0	0	12500	0	-	Time 12:10 hrs. Fish in lagoon below falls. Pink Peak Count.	
252-331	8-24	BOWERS		E	E		0	23	974	0	70Co 5000P 1Ch	Foot survey. Pink morts - 384; coho morts - 7. Water level low and temperature high. Coho, Chum Peak Count.	
BIG DANGER													
252-332	8-2	PROKOPOWICH		E	E	E	0	0	24000	0	25000P	Time 12:00 hrs. Looks excellent. Low water.	
252-332	8-17	BRENNAN		G	G	F	0	0	28600	0	4500P	2000P	Time 14:45 hrs. A few balls of fish outside and good numbers in mouth. Good distribution in stream. Good water flow. Plus 2,500 carcasses. Peak Count (include bay).
252-332	8-23	BOWERS		G	G		0	0	26000	24	7000P 50Ch	-	Foot survey. 2,603 pink morts in stream, 500 pink morts in mouth. West fork - 40% of fish below bridge, water level low. East fork - fish spread evenly through river. Chum Peak Count.
AFOGNAK RIVER													
252-342	9-11	WEIR COUNT		E			71460	6637	21830	0	-	-	Final weir count. Includes estimates of fish behind the weir. Dates of operation 5/23 - 9/11. Peak Count.
LITTLE RIVER													
253-115	6-12	HANDER		G	G		150	0	0	0	-	-	Time 13:40 Hrs. Mid tide. Surveyed entire river. Reds seen at southwest end of the lake. No bay survey.
253-115	6-21	BRENNAN		F	F	F	6100	0	0	0	-	-	Time 17:35 hrs. Maybe a few fish outside, but couldn't see. Of stream fish 1,000 reds in stream, 1,500 reds at streams off upper end of lake, maybe more in deep water. Sockeye Peak Count.
253-115	7-1	HANDER		G	G		7200	0	0	0	-	-	Time 10:10 Hrs. Low tide. Moderate stream flow. Reds at southeast end of lake. Surveyed lake and lagoon. No bay survey.
253-115	7-6	GRETSCH		G	G	G	2400	0	0	0	-	-	Time 13:30 hrs. Stream fish in lake; four schools of sockeye at southeast end of lake.

-Continued-

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
253-115	7-26	ZWEILHOFFER	G			5150	0	0	0	-	-	Time 12:30 hrs. Surveyed upper lake and tributaries. 4,000 of the fish on lakeshore.
253-115	8-11	HANDER	G			1600	0	0	0	-	-	Time 13:17 hrs. Moderate stream flow. Lake survey only. Reds seen at southeast end of lake.
253-115	9-10	BRENNAN	G	G	F	0	0	27000	0	6000P	-	Time 13:45 hrs. Plus 3,000 carcasses (suspect most carcasses washed out already). Pink Peak Count.
253-115	9-13	PROKOPOWICH	E	E	E	0	4400	10000	0	-	-	Time 13:45 hrs. Pinks in lower river. Coho in lagoon. No fish seen at lake outlet. Water low. Coho Peak Count.
253-115	9-23	JOHNSON	F	F		0	1975	0	0	-	-	Time 13:55 hrs. Most coho in lagoon and lower 2 miles of stream.
253-115	10-12	CHATTO	P	P		0	0	0	0	-	-	Time 12:05 hrs. Too windy to survey. Could see some fish in lower river, lagoon empty.
253-115	11- 3	JOHNSON	G			0	300	0	0	-	-	Time 14:00 hrs. Most fish were seen in upper end of lake.
S. ARM UGANIK												
253-121	7-21	PROKOPOWICH	G	G	G	0	0	0	3500	-	-	Time 15:40 hrs. Fish in lagoon. Chum Peak Count.
253-121	8- 5	BRENNAN	F	F	F	0	0	0	0	-	500Ch	Time 11:25 hrs. Quick look..zipola in river or mouth. One ball of fish on outside beach, likely chums.
253-121	8-11	HANDER	G	G		0	0	7000	0	-	-	Time 17:23 hrs. Moderate stream flow. Pinks distributed well throughout stream. No bay survey.
253-121	8-17	PROKOPOWICH	G	G	G	0	0	2100	0	-	-	Time 11:00 hrs. Partial stream survey. 500 morts. Pink Peak Count.
UGANIK RIVER												
253-122	6-12	HANDER	F	P	-	0	0	0	0	-	-	Time 10:54 Hrs. Mid tide. Lake and lower river had poor visibility, river above lake good visibility. No fish observed. No bay survey.
253-122	6-21	BRENNAN	P	P	P	5000	0	0	0	-	-	Time 18:00 hrs. Bay and stream murky; saw little. At creeks off upper end of lake schools of fish visible in murk; hard to count individuals, but can estimate at least 5,000, at most 15,000.
253-122	7- 1	HANDER	G	F		1100	0	0	0	-	-	Time 09:50 Hrs. Low tide. Moderate stream flow. Good visibility above lake. Reds on southwest shore of lake and above lake. Surveyed up to canyon above lake. No bay survey.
253-122	7- 6	GRETSCH	G	G	G	200	0	0	0	-	-	Time 14:00 hrs. Sockeye all in the southeast end of lake.
253-122	7- 9	PROKOPOWICH	E	E	E	33000	0	0	0	-	-	Time 15:30 hrs. Visibility excellent. No survey of inlet stream. Reds in lake near inlet stream. Sockeye Peak Count.
253-122	7-13	PROKOPOWICH	E	E	E	0	0	1400	0	-	1000P	Time 13:10 hrs. Bay fish along east shore. One beach seiner on spit.
253-122	7-21	PROKOPOWICH	E	E	E	0	0	16500	0	-	1600P	Time 15:30 hrs. One beach seiner at spit.

-Continued-

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
253-122	7-26	ZWEILHOFFER	F	P		9380	0	13500	1650	-	-	Time 11:00 hrs. Surveyed entire drainage plus lake (poor visibility). All pinks and chums in lower river below lake. All sockeye in lake inlet of upper river. No bay estimates.
253-122	7-27	BRENNAN	G	G	F	10900	0	41000	1300	6000P 700Ch	26000P	Time 11:50 hrs. Sockeye in upper river (400), along shoals of lake (500), and large school in murky water off stream mouth (10 K). Bay fish in scattered schools clear out to Packer's Spit.
253-122	7-27	GRETSCH	E	E	E	0	0	32000	1750	2500P	17500P 1500Ch	Time 10:58 hrs. Flew lake outlet to Packer's Spit. Multiple schools.
253-122	8- 2	PROKOPOWICH	G	G	P	0	0	39000	0	3000P	29000P	Time 15:30 hrs. Visibility in bay poor. Looks like more fish in bay. Creek surveyed from cub bar to salt water.
253-122	8- 5	BRENNAN	G	G	G	0	0	42000	400	20000P	40100P	Time 11:30 hrs. Fish scattered all over bay, from spit to mouth. Lots by cabin. Most fish in lower river and on flats. Chums in sloughs.
253-122	8- 8	PROKOPOWICH	G	G	G	0	0	54000	0	46000P	4000P	Time 16:10 hrs. Bay fish along north shore to spit. One beach seiner at spit. New marker locations appear to be working fine.
253-122	8-11	HANDER	G	G		8600	0	80000	0	-	-	Time 11:45 hrs. Moderate to low stream flow. Mid outgoing tide. All reds seen in or above the lake. No bay survey.
253-122	8-17	PROKOPOWICH	E	E	E	0	0	100000	0	48000P	-	Time 10:50 hrs. 20,000 Dolly Varden. 10,000 pink morts in stream. No chum estimate. Three seiners, one beach seiner at spit. Pink Peak Count.
253-122	8-23	PROKOPOWICH	P	P	P	0	0	0	0	-	-	Time 12:55 hrs. No estimates of fish. Lower end of river looks plugged. Eight seiners fishing. Lots of scattered schools throughout bay.
253-122	9-10	BRENNAN	P	G	F	0	0	33000	10000	-	-	Time 15:10 hrs. Stream very muddy. Most fish seen in lower 1/2 mile and tidal flats. Plus 75,000 carcasses. Chum Peak Count.
253-122	9-22	SCHWARZ	E	G		965	0	175	0	14100P 2000Ch	-	Time 10:50 hrs. Surveyed entire drainage. Visibility in lake poor. 4,400 Dolly Varden in upper river. Most chums and pinks in intertidal area. More carcasses than live fish. No bay estimates. Four anglers at lake outlet. Plus 1 bear. Pink Peak Count.
253-122	10-12	CHATTO	F			0	1200	0	0	-	-	Time 11:30 hrs. Surveyed upper Uganik and east fork. Lake and lower river turbid - no survey. Coho Peak Count.
253-122	10-27	JOHNSON	G	P		0	1450	0	0	-	-	Time 15:55 hrs. Visibility in lower river poor, upper river good. Upper main stem 1050 fish, east fork 400 fish.
TERROR RIVER												
253 331	7- 9	PROKOPOWICH	G	G	G	0	0	2000	0	-	2500P	Time 15:50 hrs. Lots of small schools of pinks moving into bay.

-Continued-

Appendix O.10. (page 7 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
253-331	7-13	PROKOPOWICH	E	E	E	0	0	6000	0	-	50000P	Time 13:30 hrs. Starting to look real good.
253-331	7-21	PROKOPOWICH	E	E	E	0	0	30000	2000	-	45000P 2500Ch	Time 15:15 hrs. Excellent water flow. Three seiners working markers.
253-331	7-27	GRETSCH	E	E	E	0	0	36500	500	10000P	80000P	Time 10:35 hrs. Large school of pinks near mouth. Low water.
253-331	7-27	BRENNAN	E	G	G	0	0	31000	6100	19000P	77000P 7000Ch	Time 11:30 hrs. Good show of fish out to closed water markers. Lots of boats working markers and out to Baumman's (25). Chum Peak Count.
253-331	8- 5	BRENNAN	G	G	G	0	0	39000	4000	112000P	15000P	Time 11:55 hrs. Lots of fish in lower river.
253-331	8-11	HANDER	G	G		0	0	44000	500	18000P	-	Time 11:35 hrs. Good stream flow. Pinks distributed well throughout the survey area. No bay survey.
253-331	8-17	PROKOPOWICH	E	E	E	0	0	120000	5000	2500P	-	Time 10:40 hrs. Excellent distribution. Good water flow. Estimated 75,000 pink morts. Pink Peak Count.
253-331	10-12	CHATTO	G	G		0	10	0	0	-	-	Time 10:45 hrs. Surveyed from Four Mile Creek to mouth. Coho Peak Count.
BAUMANN'S												
253-332	7- 9	PROKOPOWICH	G	G	G	0	0	250	0	-	-	Time 16:10 hrs.
253-332	7-27	BRENNAN	G	G	G	0	0	7800	2200	-	24000P	Time 11:40 hrs. Chums (?)...more likely pinks. Pink Peak Count.
253-332	7-27	GRETSCH	E	E	E	0	0	6600	0	35000P	3000P	Time 10:50 hrs. Large school of pinks near mouth. Low water.
253-332	8- 5	BRENNAN	G	G	G	0	0	12700	0	20000P	-	Time 12:05 hrs. Good.
253-332	9-10	BRENNAN	G	G	F	0	0	16000	0	5500P	-	Time 13:30 hrs. Plus 8,000 carcasses. Pink Peak Count.
CLARA'S CREEK												
253-333	9-10	BRENNAN	G	G	F	0	0	3000	0	-	-	Time 13:35 hrs. Peak Count.
UYAK RIVER												
254-202	7- 9	PROKOPOWICH	G	G	G	0	0	100	0	-	1000P	Time 15:10 hrs. Bay fish along south shore to Deadman Bay pass.
254-202	7-13	PROKOPOWICH	G	G	G	0	0	1200	0	17000P	30000P	Time 12:20 hrs. Bay fish along S.W. shore to Deadman Pass. Looks good. Two seiners working marker sets. Pink Peak Count.
254-202	7-21	PROKOPOWICH	G	G	G	0	0	40000	0	-	30000P	Time 16:20 hrs. Windy at mouth. Jumpers present. Bay fish along southwest shore.
254-202	7-26	ZWEILHOFFER	G	G		0	0	6500	2500	-	-	Time 14:40 hrs. Low tide. Surveyed entire drainage. All pinks in lower river or in delta. No bay estimates.
254-202	7-27	BRENNAN	G	G	G	0	0	30000	0	10000P	91000P	Time 12:35 hrs. Some schools out by Amook, most from Nellie's Creek in.
254-202	7-27	GRETSCH	E	E	E	0	0	24300	0	5000P	70000P	Time 11:58 hrs. Most fish in lower bends of river just above mouth.

-Continued-

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
254-202	8-11	HANDER	G	G		0	0	46000	0	-	-	Time 14:47 hrs. Moderate stream flow. Flew entire stream. No bay survey.
254-202	8-17	PROKOPOWICH	E	E	E	0	0	90000	0	30000P	50000P	Time 12:05 hrs Good water flow. Excellent fish distribution. Pink Peak Count.
254-202	9-22	SCHWARZ	G	G		0	1125	7500	500	-	-	Time 13:00 hrs. Surveyed entire drainage. No bay estimates. Plus 6 bears. Pink, Coho, Chum Peak Count.
254-202	10-12	CHATTO	G			0	350	0	0	-	-	Time 14:46 hrs. Surveyed entire river - good look.
254-202	10-27	JOHNSON	G	G		0	550	0	0	-	-	Time 14:30 hrs.
EAST UYAK CREEK												
254-203	7- 9	PROKOPOWICH	G	G	G	0	0	500	0	-	12000P	Time 15:00 hrs. Bay fish from Nellie's Cove to 203 creek.
254-203	7-13	PROKOPOWICH	G	G	G	0	0	2000	0	-	10000P	Time 12:10 hrs. Bay fish from Nellie's Cove to 203 Creek. Pink Peak Count.
254-203	7-21	PROKOPOWICH	G	G	G	0	0	30000	0	55000P	75000P	Time 16:15 hrs. Bay fish north to Nellie's Cove. Partial survey of creek.
254-203	7-26	ZWEILHOFFER	G	G		0	0	2800	1725	-	-	Time 15:00 hrs. Low tide. Surveyed first 3 miles of stream. No bay estimates.
254-203	7-27	GRETSCH	E	E	E	0	0	16200	0	7500P	55000P	Time 12:15 hrs. Surveyed upstream 4 miles.
254-203	7-27	BRENNAN		G	G	0	0	0	0	25000P	-	Time 12:45 hrs. Looked at mouth but did not survey creek.
254-203	8-11	HANDER	G	G		0	0	28000	0	10000P	-	Time 14:37 hrs. Moderate stream flow. Pinks distributed throughout entire river. No bay survey.
254-203	8-17	PROKOPOWICH	E	E	E	0	0	106000	0	20000P	77000P	Time 11:55 hrs. Bay fish along north shore to Nellie's Cove. Pink Peak Count.
BROWN'S LAGOON												
254-204	8-17	PROKOPOWICH	G	G	G	0	0	7500	0	-	-	Time 11:25 hrs. Peak Count.
ZACHAR RIVER												
254-301	7-13	PROKOPOWICH	F	F	F	0	0	3000	50	-	-	Time 12:40 hrs. Surveyed from sample area down to bay. Poor visibility in bay. Pink Peak Count.
254-301	7-21	PROKOPOWICH	G	G	G	0	0	18000	3000	-	5000Ch	Time 16:10 hrs. Chums in bay along west side.
254-301	7-26	ZWEILHOFFER	G	F		0	0	8700	4650	-	-	Time 14:00 hrs. Mid tide. Surveyed entire drainage. Lots of glare on water. All pinks in lower river. No bay estimates.
254-301	7-27	BRENNAN		G	G	0	0	0	0	12000P 1000Ch	47000P 5000Ch	Time 12:20 hrs. No stream survey.
254-301	7-27	GRETSCH	E	E	E	0	0	30600	16520	-	-	Time 11:29 hrs. No fish near mouth or on flats. Most chums above canyon.
254-301	8- 5	BRENNAN	F	G	G	0	0	29000	1500	2000P	37000P 2000Ch	Time 10:30 hrs. Mist and overcast, so poor look at upper creek.
254-301	8-11	HANDER	G	G		0	0	24500	0	-	-	Time 14:10 hrs. Low stream flow. Pinks distributed throughout stream. No bay survey.

-Continued-

Appendix O.10. (page 9 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
254-301	8-17	PROKOPOWICH	E	E	E	0	0	113000	20000	8000P	7000P	Time 11:15 hrs. Survey from saltwater to Brown's Lagoon Pass. Good water flow. Excellent fish distribution. Pink, Chum Peak Count.
254-301	9-22	SCHWARZ	G	G		0	6750	500	50	-	-	Time 12:55 hrs. Surveyed entire drainage. Coho spread out upstream but most fish still in lower one mile. No bay estimates. Pink, Coho Peak Count.
254-301	10-12	CHATTO	G	G		0	4100	0	0	-	-	Time 15:15 hrs. Surveyed from forks down to mouth; good look. Fish spread out over entire river.
254-301	10-27	JOHNSON	G	G		0	2700	0	0	-	-	Time 14:45 hrs. Surveyed from forks downstream.
N.E. ZACHAR CREEK												
254-302	8-5	BRENNAN	G	G	G	0	0	2500	0	1800P	-	Time 10:50 hrs. Good show of fish in bay (listed under stream 254-301). Peak Count.
254-302	8-11	HANDER	G	G		0	0	1000	0	-	-	Time 14:05 hrs. Moderate stream flow. Pinks at mouth and in stream. No bay survey.
SPIRIDON RIVER												
254-401	7-21	PROKOPOWICH	P	P	P	0	0	0	0	-	-	Time 16:00 hrs. No survey - water murky.
254-401	7-26	ZWEILHOFFER	P	P		0	0	0	800	-	-	Time 13:15 hrs. Surveyed entire drainage. Visibility in main river fair to poor. Visibility in index areas good. Water level low. No sockeye in Munsey's Lake or tributary. All chums below confluence of Munsey's creek. No bay estimates.
254-401	8-5	BRENNAN		G	G	0	0	0	0	34000P 3000Ch	1200R 3000P 1500Ch	Time 11:05 hrs. Lots of fish stacked up in Weasel Cove. Poor look at Telrod Cove; some jumpers but hard to tell how many, or if all are sockeye. River too murky to count, no stream survey. Pink Peak Count (mouth fish).
254-401	8-11	HANDER	G			0	0	7700	250	-	-	Time 13:43 hrs. Good stream flow. Flew index areas (clear flowing side streams) only.
254-401	9-10	BRENNAN	P	F	P	0	500	0	5000	-	-	Time 14:40 hrs. Looked at clear tributaries in upper river. Main stream too murky. Chum Peak Count.
254-401	9-22	SCHWARZ	F	P		4	280	175	25	-	-	Time 11:30 hrs. Visibility in main stem poor but in tributaries visibility was good. Four sockeye in Munsey's Lake. No bay survey. Plus 1 bear. Sockeye Peak Count.
254-401	10-12	CHATTO	G			0	1100	0	0	-	-	Time 15:40 hrs. Mainstem turbid so no estimate. Count is from Bear Creek tributary south. Munsey River 300, index area 750.
254-401	10-27	JOHNSON	E			0	2250	0	0	-	-	Time 15:15 hrs. Visibility best yet. Surveyed up past Munsey's to forks. Munsey's tributary 300, index area 400, main stem 1550. Coho Peak Count.
TELROD COVE												
254-403	9-3	PROBASCO	E	E	E	3500	0	0	0	-	-	Foot survey. Sockeye built up in deep hole at base of barrier falls about 1/2 mile up from mouth. Up to 70% are jacks. Sample taken. Peak Count.

-Continued-

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
KARLUK RIVER												
255-101	8-17	PROKOPOWICH	G	G	G	30000	0	0	0	-	-	Time 11:35 hrs. Reds in upper lagoon. Looks weak. One jumper by Tanglefoot and one seen by waterfalls.
255-101	8-23	PROKOPOWICH	G	G	G	40000	0	0	0	2500R	-	Time 13:20 hrs. Entire 7-Mile Beach - 300 fish. Stream fish in lagoon. Windy SW 20. No show off mouth.
255-101	9-13	PROKOPOWICH	G	G	G	25000	0	0	0	-	-	Time 13:30 hrs. 150 fish seen along 7-Mile beach. Good show of mixed pink and reds below weir. Estimated 10,000 - 15,000 fish in stream. No show offshore.
255-101	9-29	WEIR COUNT	E			657455	19362	101672	142	-	-	Final weir count. Includes estimates of fish remaining below weir. Also counted 13,944 chinook salmon. Peak Counts.
255-101	10-12	CHATTO	F			0	7000	0	0	-	-	Time 12:35 hrs. Surveyed portage to lake outlet. Very few sockeye from lake outlet downstream to above oxbow.
255-101	10-27	JOHNSON	F	F		0	550	0	0	-	-	Time 14:10 hrs. Surveyed from outlet to portage. Lots of glare.
255-101	11- 3	JOHNSON	G			0	1250	0	0	-	-	Time 12:00 hrs. Surveyed from outlet to portage only. Estimats considered conservative.
RED RIVER												
256-201	8-29	WEIR COUNT	E			286170	2154	29597	36	-	-	Final weir count. Includes estimates of fish below weir. Also 7,819 chinook salmon counted. Dates of operation 5/22 - 8/29. Peak Counts.
256-201	9- 1	CHATTO	F			0	8440	0	0	-	-	Time 13:30 hrs. Survey by helicopter. Water flow very high. Visibility in main river poor, but in east fork fair to good. Only surveyed from Red Lake upstream, in river. Coho Peak Count.
256-201	9-22	SCHWARZ	P			0	5400	0	0	-	-	Time 14:50 hrs. River very high and turbid. Estimates are for fish in confluence of Red River and main stem. 450 of these in east fork. No mouth or bay estimates.
256-201	10-12	CHATTO	F			0	850	0	0	-	-	Time 12:50 hrs. Surveyed east fork of Ayakulik only. Mainstem too turbid. Water high and lots of glare.
256-201	10-27	JOHNSON	G	G		0	3400	0	0	-	-	Time 11:40 hrs. Visibility in main stem poor. 1700 fish in east fork; confluence east fork to Swan Flats 300. Confluence Red River 350, Red River 250, Bare Creek 800.
CARAMEL CREEK												
256-401	11- 3	JOHNSON	G			0	85	0	0	-	-	Time 11:30 hrs. Started seeing fish up near forks. Coho Peak Count.
STURGEON RIVER												
256-401	6-12	HANDER	G	G		0	0	0	0	20Ch	-	Time 1140 Hrs. Mid tide. Surveyed entire river and the lagoon. Chums seen at mouth of river proper. No fish seen at east Sturgeon Lagoon. No bay survey.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
256-401	6-21	BRENNAN	F	P	F	0	0	0	200	500Ch	2000Ch	Time 17:10 hrs. High tide, so lagoon very murky. No big sign (no jumpers) but a few fish in lower 1/2 mile, and at mouth of lagoon.
256-401	7- 1	HANDER	G	G		0	0	0	1300	12500Ch	-	Time 10:45 hrs. Low tide. Moderate to low stream flow. Chums seen from lagoon to approximately 10 miles upstream. Surveyed entire system. No bay survey.
256-401	7-21	SCHWARZ	E	E	E	0	0	0	875	-	-	Time 14:00 hrs. Surveyed entire drainage. Very few fish above fork in main spawning area, no fish in lagoon. Low tide. Plus 16(?) bears. (S/3Y, S/3Y,S/2:2,2SA,3S). Chum Peak Count.
256-401	7-27	GRETSCH	E	E	E	1	0	0	184	-	-	Time 14:15 hrs. Flew main stem of river 15 miles approximately; dead.
256-401	8- 2	HANDER	G	P		0	0	400	250	-	-	Time 16:15 hrs. Water low. Surveyed entire stream. Chum scattered from just above forks to lagoon. Pinks are above mouth. High tide - no estimate in lagoon, too turbid. No jumpers. No bay survey. Plus 2 bears (sow and yearling). Pink Peak Count.
256-401	9-13	PROKOPOWICH	G	G	G	0	0	0	0	-	-	Time 13:15 hrs. Few pinks in lower end. No coho seen in lagoon. Surveyed first one mile of river.
256-401	9-22	SCHWARZ	F			0	820	0	0	-	-	Time 15:50 hrs. Surveyed from forks downstream. Water very high. No mouth or bay estimates. Coho Peak Count.
256-401	11- 3	JOHNSON	G			0	1050	0	0	-	-	Time 11:40 hrs. Surveyed entire main stem. Fish scattered in upper section.
EAST STURGEON RIVER												
256-402	7-21	SCHWARZ	E	E	E	0	0	0	500	-	-	Time 14:30 hrs. Surveyed entire drainage. Very few fish in upper area. Peak Count.
LITTLE SUKHOI												
257-101	7-27	BRENNAN	G	G	G	0	0	0	0	-	-	Time 13:35 hrs.
BIG SUKHOI												
257-102	7-26	ZWEILHOPFER	G			0	0	0	640	-	-	Time 17:20 hrs. Surveyed stream only. Plus one bear.
257-102	7-27	BRENNAN	E	G	P	0	0	0	50	7000Ch	-	Time 13:30 hrs. Very few fish in creek and little showing in lagoon. One school just inside mouth. Chum Peak Count.
257-102	8-11	HANDER	G	G		0	0	0	2220	2500Ch	-	Time 15:36 hrs. Moderate stream flow. Chums distributed throughout system. No bay survey.
257-102	9-23	JOHNSON	F	F		0	1300	0	0	-	-	Time 12:55 hrs. Looked at entire river. No bay estimates.
257-102	10-18	BARNES	F	F		0	525	0	0	-	-	Time 15:13 hrs. Water high - visibility upstream fair to poor. No bay survey.

-Continued-

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
AKALURA CREEK												
257-302	9- 5	WEIR COUNT	E			30692	4505	12928	11	-	-	Final weir counts. Include estimates of fish below weir. Dates of operation 6/2 - 9/5. Peak Counts.
SILVER SALMON CREEK												
257-303	7-26	ZWEILHOFFER	G			3800	0	0	0	-	-	Time 17:00 hrs. Surveyed both lake and upper stream. Good show of sockeye. 3,500 sockeye in lake upper end. No lagoon or bay estimates. Sockeye Peak Count.
257-303	8-11	HANDER	G	G		600	0	50	0	-	-	Time 15:50 hrs. Moderate stream flow. Reds seen in stream above lake and in the west end of lake. No bay survey. Pink Peak Count.
257-303	9-22	SCHWARZ	F	P		0	500	0	0	-	-	Time 15:40 hrs. Estimate is from mud puffs in lagoon area. Fish not visible. No bay estimates. Coho Peak Count.
257-303	10-18	BARNES	F	G		0	400	0	0	-	-	Time 15:24 hrs. Water high. 300 coho in lagoon, 100 in upper tributary to lake. No bay survey.
UPPER STATION												
257-304	8-17	PROKOPOWICH	G	G	G	0	0	0	0	7000R	-	Time 12:45 hrs. Very few fish seen in rest of bay. Final weir count. Includes estimates of fish behind the weir. Dates of operation 5/29 - 9/11. Peak Count.
257-304	9-11	WEIR COUNT	E			222381	6580	21829	3	-	-	
HORSE MARINE												
257-402	6-21	BRENNAN	G	G	G	100	0	0	0	-	-	Time 16:30 hrs. Only a few fish in creek and lake.
257-402	8- 2	HANDER	G	G		300	0	0	0	-	-	Time 15:45 hrs. All sockeye off mouth of stream in lake. None on north beach. No bay survey.
257-402	8-11	HANDER	G	G		800	0	0	0	200R	-	Time 15:23 hrs. Low stream flow. Reds seen along northeast shore of lake. No bay survey.
257-402	8-17	PROKOPOWICH	E	E	E	3200	0	0	0	-	-	Time 12:25 hrs. Fish in lake. Sockeye Peak Count.
257-402	9-22	SCHWARZ	G	F		1506	510	0	0	205Co	-	Time 16:10 hrs. Surveyed entire drainage. All sockeye in lake. No bay estimate. Coho Peak Count.
257-402	10-18	BARNES	G	G		0	10	0	0	-	-	Time 15:40 hrs. Only quick look at lagoon. All fish were in river below lake. No bay survey. Plus 1 bear.
DOG SALMON												
257-403	6-21	BRENNAN		G	G	0	0	0	0	6500R	8700R	Time 16:35 hrs. Flats survey. 3,000 at west end (may back into nets at low tide); west creek 1,500, east creek 5,000. Offshore in tide rip 5-10,000...hard to see. Also saw jumpers about 1/4 mile offshore from flats in deep water. Small balls of fish at Talifson's Bight (200+) and Iverson's Cove (500+). Total count on flats and offshore a solid 15,200 with possibly 5,000 more in deep water, and sign of fish offshore. Jumpers also seen in upper bay by waterfall and Little Dog Salmon Creek.

-Continued-

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
257-403	7-27	BRENNAN	G	G		0	0	0	0	25000R	16000R	Time 13:15 hrs. Fish distribution as follows: 16,000 to east of river, 12-15,000 in east fork and 10,000 in west fork. Quick look.
257-403	8-29	WEIR COUNT	E			198412	4985	161255	4158	-	-	Final weir count. Includes estimates of fish below weir. Also 337 chinook salmon counted. Dates of operation 6/8 - 8/29. Peak Counts.
257-403	9-22	SCHWARZ	G			0	1040	0	250	-	-	Time 14:20 hrs. Surveyed between fishpass and falls downstream. Very high water. 250 Dolly Varden in east fork.
257-403	10-27	JOHNSON	G			0	500	0	0	-	-	Time 12:25 hrs. Surveyed from fish pass down to falls, and east fork.
DEADMAN RIVER												
257-502	7-21	PROKOPOWICH	G	G	G	0	0	16000	0	-	-	Time 16:30 hrs. 10,000 in west fork, 6,000 in east fork.
257-502	7-27	BRENNAN	G	G	G	0	0	15000	0	14000P	49000P	Time 13:00 hrs. 8,000 in west fork, 6,000 in east, plus lots of fish in channels on flats near creek mouth. Bay fish on east side. Did not look towards Alpine Cove.
257-502	7-27	GRETSCH	E	E	E	0	0	16400	0	3500P	23600P	Time 12:34 hrs. Bay count includes fish observed from eastside of river mouth into Alpine Cove.
257-502	8- 2	HANDER	G	G		0	0	12800	0	35000P	-	Time 15:17 hrs. Water low. Surveyed entire stream. Conservative estimates of fish off mouth. No bay survey.
257-502	8- 8	PROKOPOWICH	E	E	E	0	0	22500	0	225000P	-	Time 16:00 hrs. Great water flow. West fork = 9,000 pinks, east fork = 13,500 pinks.
257-502	8-11	HANDER	G	G		0	0	80000	0	30000P	-	Time 15:04 hrs. Moderate stream flow. Pinks distributed throughout entire stream. Limited bay survey.
257-502	8-17	PROKOPOWICH	G	P	G	0	0	125000	0	-	-	Time 12:15 hrs. Jumpers off mouth, but poor visibility in water. Pink Peak Count.
257-502	9-22	SCHWARZ	G	G		0	300	7900	0	-	-	Time 16:50 hrs. Surveyed entire drainage. No bay estimate. Coho Peak Count.
257-502	10-18	BARNES	F	P		0	325	0	0	-	-	Time 15:46 hrs. High tide. Lower 1/4 mile mainstem visibility poor. No bay survey.
ALPINE COVE CREEK												
257-503	8- 2	HANDER	E	E		0	0	1500	20	2000P	-	Time 15:08 hrs. Water low but not dry. Chums way upstream. Numerous balls of fish in bay; no estimate. Chum Peak Count.
257-503	8- 8	PROKOPOWICH	E	E	E	0	0	4000	0	10000P	3000P	Time 15:55 hrs. Looks excellent: Pink Peak Count.
257-503	9-22	SCHWARZ	E	E		0	20	2200	0	-	-	Time 16:40 hrs. Surveyed entire drainage. No bay estimate. Plus 1 bear. Pink, Coho Peak Count.
HELLEN CREEK												
257-504	8- 8	PROKOPOWICH	G	G	G	0	0	0	0	15000P	-	Time 15:45 hrs. Creek low. Pink Peak Count.

-Continued-

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
N.E. PORTAGE												
257-601	7-26	ZWEILHOFFER	E			0	0	0	0	-	-	Time 18:00 hrs. Surveyed stream only. No fish off mouth or in upper lagoon. Upper part of stream dry.
257-601	8- 8	PROKOPOWICH	G	G	G	0	0	0	0	3000P	-	Time 15:15 hrs. Water low in creek.
257-601	8-17	BARNES	G			0	0	10000	2000	-	-	Time 12:26 hrs. Water low, upper sections dry. Chum estimate difficult... mixed in with pinks. No mouth or bay estimates.
257-601	9- 9	SARAFIN	F	F	F	0	0	20000	8000	-	-	Time 15:40 hrs. Chum and pinks very spawned out. Difficult to be sure of true ratio of species. Estimate between 6,000 - 10,000 chum. Chum, Pink Peak Count.
257-601	10-18	BARNES	F	G		0	100	0	0	-	-	Time 11:34 hrs. No bay survey.
SULUA PINK CREEK												
257-602	8- 8	PROKOPOWICH	E	E	E	0	0	0	0	25000P	-	Time 15:05 hrs. Water very low in creek. Peak Count.
SULUA CHUM CREEK												
257-603	8- 2	HANDER	G	G		0	0	0	225	700Ch	-	Time 14:23 hrs. Water very low. Incoming tide. Very few fish in stream. Jumpers in delta off mouth; no estimate.
257-603	8- 8	PROKOPOWICH	E	E	E	0	0	7000	2000	8000P	-	Time 15:00 hrs. Pink Peak Count.
257-603	8-17	BARNES	G	P		0	0	3500	1800	4000Ch	-	Time 16:08 hrs. Surveyed entire creek. Water low. Estimate of chums off mouth difficult - lots of glare. No bay estimate.
257-603	9- 9	SARAFIN	F	F	F	0	0	12500	4500	-	-	Time 16:00 hrs. Actual estimate 10,000 - 15,000 pink salmon and 4,000 - 5,000 chum salmon. Chum, Pink Peak Counts.
257-603	9-23	JOHNSON	G	F		0	950	0	0	-	-	Time 12:25 hrs. Still some pinks in lower section of stream; no estimate. Coho Peak Count.
257-603	10-18	BARNES	G	G		0	300	0	0	-	-	Time 11:54 hrs. Good look. Plus 2 single bears and a sow with 2 yearlings. No bay survey.
HUMPY RIVER												
257-701	7-15	PROKOPOWICH	G	G	G	0	0	0	0	-	-	Time 17:30 hrs. Nothing seen.
257-701	7-21	PROKOPOWICH	G	G	G	0	0	8000	0	-	-	Time 16:45 hrs. Low water flow.
257-701	7-27	BRENNAN	E	G	G	0	0	84000	0	17000P	34000P	Time 13:45 hrs. Fish very well distributed from lower river clear up to mountains. River pretty low. Fish mostly in deep pools and corners.
257-701	7-30	NICHOLSON	G	G	G	0	0	43000	0	82000P	-	Time 14:00 hrs. Nothing seen outside.
257-701	8- 8	PROKOPOWICH	E	E	E	0	0	90000	0	-	600000P	Time 15:40 hrs. Estimated 500,000 - 700,00 pinks inside markers, majority of which are very dark.
257-701	8-17	BARNES	G			0	0	360000	0	-	-	Time 15:40 hrs. Surveyed entire river. Estimate of fish in stream considered very conservative. Quick look. No mouth or bay estimates.
257-701	8-17	PROKOPOWICH	E	E	E	0	0	350000	0	175000P	-	Time 13:30 hrs. Fair water flow. Fish distributed entire length of stream. Pink Peak Counts.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
257-701	9-23	JOHNSON	F	F		0	1350	0	0	-	-	Time 12:35 hrs. Looked at entire river. Still lots of pinks left, many carcasses... No estimates. Coho Peak Count.
257-701	10-18	BARNES	G	G		0	525	0	0	-	-	Time 12:08 hrs. Visibility in lower 2 miles poor. Most fish in upper section. No bay survey. 5 single bears.
BOULDER BAY												
258-101	8-17	GRETSCH	G	G	G	0	0	1700	0	-	-	Time 12:55 hrs. Good water flow. Limited visibility due to overhanging brush. Looks good for escapement. Peak Count.
258-101	9-13	BRENNAN	E	E	G	0	0	500	0	-	-	Time 15:35 hrs. Quick fly by. Nothing showing outside.
KILIUDA BAY												
258-20	7-15	PROKOPOWICH	G	G	G	0	0	0	0	-	2600P 800Ch	Time 16:35 hrs. Shearwater - 200 chums along cannery beach. Kiliuda Spit - 600 chums. Pivot Point 2,600 pinks.
SANTA FLAVIA												
258-201	8-17	GRETSCH	G	G	G	0	0	0	0	300P	-	Time 12:50 hrs. Good water flow. Peak Count.
SHEARWATER BAY CREEK												
258-202	8- 8	PROKOPOWICH	E	E	E	0	0	0	0	-	500P 1000Ch	Time 13:55 hrs. Streams very low to dry. Fish along beach on west side.
258-202	8-17	GRETSCH	G	G	G	0	0	0	0	-	-	Time 12:45 hrs. Stream dry; no fish near mouth.
258-202	9-13	BRENNAN	E	E	G	0	0	13800	0	-	-	Time 15:30 hrs. Plus 1200 carcasses and 1 bear. Peak Count.
PORT OTTER CREEK												
258-203	8-17	GRETSCH	G	G	G	0	0	0	0	-	-	Time 12:40 hrs. Stream dry; no fish.
DOG BAY CREEK												
258-204	8- 8	PROKOPOWICH	G	G	G	0	0	0	0	7000Ch	-	Time 14:00 hrs. Water very low in stream.
258-204	8-17	GRETSCH	F	G	G	0	0	2000	600	500P	-	Time 12:30 hrs. Low water.
258-204	9- 9	SARAFIN	F	F	F	0	0	2000	5000	-	-	Time 17:30 hrs.
258-204	9-13	BRENNAN	E	E	E	0	0	0	4900	-	-	Time 15:25 hrs. Plus 300 carcasses and 3 bears. Peak Count.
COXCOMB POINT CREEK												
258-205	8- 8	PROKOPOWICH	G	G	G	0	0	0	0	9000Ch	-	Time 14:05 hrs. Several small schools of chum moving into bay.
258-205	8-17	GRETSCH	G	G	G	0	0	0	0	400P	-	Time 12:25 hrs. Low water.
258-205	9- 9	SARAFIN	F	F	F	0	0	8000	2000	-	-	Time 17:40 hrs.
258-205	9-13	BRENNAN	E	E	E	0	0	0	6000	-	-	Time 15:20 hrs. No show at mouth or outside. Plus 550 carcasses and 3 bears. Peak Count.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
N. KILIUDA CREEK												
258-206	8-8	PROKOPOWICH	G	G	G	0	0	0	0	2000P	-	Time 14:30 hrs. Water low in creek.
258-206	8-17	GRETSCH	G	G	F	0	0	11400	5000	-	-	Time 12:15 hrs. Most fish in lower bends of river. Good water flow. Peak Counts.
W. KILIUDA CREEK												
258-207	7-15	PROKOPOWICH	E	E	E	0	0	350	0	-	16700P	Time 16:45 hrs. East fork - 100 pinks. Sample fork - 250 pinks. Pink Peak Count.
258-207	7-27	ZWEILHOFFER	G	G		0	0	7600	2000	-	-	Time 12:45 hrs. Surveyed entire stream. No estimate of bay fish.
258-207	7-27	BRENNAN	G	G	G	0	0	4000	0	5000P	-	Time 15:00 hrs. Not much in creek. Most down low toward mouth. No show right out front.
258-207	7-30	GRETSCH	G	G	G	0	0	5000	0	1200P	40000P	Time 13:55 hrs. Pinks appear to be traveling out the bay.
258-207	8-8	PROKOPOWICH	G	G	G	0	0	22500	400	8000P	-	Time 14:20 hrs. Good water flow. Left fork - 10,000 pinks, right fork 12,500 pinks. Pink Peak Count.
258-207	8-12	HANDER	G	G		0	0	25000	0	7000P	-	Time 12:12 hrs. Low stream flow. Pinks in lower 2 miles of river. No bay survey.
258-207	8-17	GRETSCH	G	G	F	0	0	42000	1500	-	-	Time 12:09 hrs. 2,000 dead pinks on stream bank. Good water flow.
258-207	9-13	BRENNAN	E	E	E	0	0	23500	3500	5000P	-	Time 15:05 hrs. Chums in side creeks and sloughs. In index tributary only 1,500 pinks plus 4,000 on tidal flats. Plus 10,000 carcasses. Pink, Chum Peak Count.
258-207	9-23	JOHNSON	G	G		0	475	0	0	-	-	Time 10:55 hrs. Surveyed entire drainage. Lots of pinks left - no count. Lots of carcasses.
258-207	10-13	CHATTO	G			0	800	0	0	-	-	Time 11:25 hrs. Surveyed entire stream - good look. Coho Peak Count.
258-207	11-2	CHATTO	E	E		0	400	0	0	-	-	Time 11:20 hrs. Stream very low; dry in sections 1/2 mile upstream. Side channels dry.
DUKALUK CREEK												
258-208	7-30	GRETSCH		E		0	0	0	0	7300P	-	Time 13:45 hrs. No ducks! Flew mouth of creek only.
258-208	9-9	SARAFIN	F	F	F	0	0	0	4000	-	-	Time 17:20 hrs. Peak Count.
DEEK CREEK												
258-209	8-8	PROKOPOWICH	G	G	G	0	0	0	0	1500Ch	2500P 2500Ch	Time 14:10 hrs. Stream water low. Bay fish along Kiliuda Spit.
KILIUDA SPIT CREEK												
258-210	9-13	BRENNAN	E	E	E	0	0	0	150	-	-	Time 15:15 hrs. Quick look at lower 1/4 mile of creek. Nothing showing outside. Peak Count.
MEELEK GROVE CREEK												
258-211	7-30	GRETSCH	E	E	E	0	0	0	0	13000P	-	Time 13:35 hrs. Scattered jumpers from creek to Pivot Point.

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Appendix O.10. (page 17 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
BEAR CAMP CREEK 258-213	9-13	BRENNAN	E	E	E	0	0	150	0	100P	-	Time 15:00 hrs. Peak Count.
GHOST ROCKS CREEK 258-304	7-30	GRETSCH	G	G	G	0	0	0	0	1600P	-	Time 13:25 hrs.
NUT ISLAND CREEK 258-305	7-30	GRETSCH	G	G	G	0	0	0	0	300P	-	Time 13:15 hrs.
OCEAN BEACH 258-401	7-15	PROKOPOWICH	G	G	G	2000	0	0	0	200R	-	Time 17:15 hrs. Fish in upper lake. Sockeye Peak Count.
ROLLING BAY 258-511	8-23	PROKOPOWICH	E	E	E	0	0	92300	0	5000Ch	-	Time 14:45 hrs. Few dogs starting to show off mouth. One seiner in bay. Pink Peak Count.
258-511	9-9	SARAFIN	F	F	F	0	0	17500	2500	-	-	Time 15:20 hrs. 2,000 - 3,000 chums were in lagoon. Pinks actual estimate 15,000 - 20,000. Chum Peak Count.
NATALIA BAY 258-512	8-23	PROKOPOWICH	G	G	G	0	0	300	0	-	-	Time 14:15 hrs. Peak Count.
NEWMAN BAY 258-513	8-23	PROKOPOWICH	G	G	G	0	0	150	0	400P	-	Time 14:05 hrs. Peak Count.
NATALIA CABIN CREEK 258-514	8-23	PROKOPOWICH	G	G	G	0	0	200	0	-	-	Time 14:25 hrs. Peak Count.
DRY CREEK 258-515	8-23	PROKOPOWICH	G	G	G	0	0	0	0	-	-	Time 14:35 hrs. Nothing seen.
MIDWAY CREEK 258-521	7-27	ZWEILHOPFER	G	G		0	0	24450	0	-	-	Time 11:30 hrs. Surveyed entire stream. Good show of fish. No estimate of bay fish. Pink Peak Count.
258-521	8-12	HANDER	G	G		0	0	22000	3000	20000P	-	Time 12:25 hrs. Moderate stream flow. Pinks in lower 4 miles of river. No bay survey.
258-521	9-9	SARAFIN	F	F	F	0	1000	0	0	3000Co	-	Time 17:00 hrs. Coho in lower river and mouth.
258-521	9-13	BRENNAN	E	E	G	0	2000	22000	1500	3000Co 2000P	-	Time 14:50 hrs. No huge show of coho. Six skiffs and about 30 people sportfishing. Plus 10,000 carcasses. Peak Counts.
258-521	9-23	JOHNSON	E	E		0	5100	0	0	-	-	Time 11:10 hrs. Surveyed entire drainage. No bay estimate.
258-521	10-13	CHATTO	G			0	3660	0	0	-	-	Time 11:40 hrs. Surveyed entire stream. Fish scattered in spawning areas. One boat fishing.
258-521	11-2	CHATTO	E	E		0	2900	0	0	-	-	Time 11:30 hrs. Stream very low. Spawning fish scattered upstream. Still alot of fish staged downstream.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
BARLING CREEK												
258-522	7-15	PROKOPOWICH	E	E	E	0	0	2500	0	12500P	400P	Time 17:00 hrs. Looks good for this early.
258-522	7-21	PROKOPOWICH	E	E	E	0	0	14000	0	-	55000P	Time 17:20 hrs. Looks good. Good water flow.
258-522	7-27	BRENNAN	G	G	F	0	0	23000	0	7000P	11000P	Time 14:40 hrs.
258-522	7-27	ZWEILHOFFER	G	G		0	0	22850	2800	-	-	Time 11:00 hrs. Surveyed entire stream. Numerous pinks jumping in bay off mouth; no estimates. Water low.
258-522	7-30	GRETSCH	E	E	E	0	0	21000	0	10000P	40000P	Time 13:00 hrs. Good stream flow. Most fish south of stream mouth.
258-522	8- 8	PROKOPOWICH	E	E	E	0	0	70000	0	30000P	-	Time 14:40 hrs. Many small schools moving into bay. Good water flow in creek. Pink Peak Count.
258-522	8-12	HANDER	G	G		0	0	50000	0	35000P	-	Time 12:43 hrs. Low flow but no dry areas in stream. Pinks in lower 5 miles of river. No bay survey.
258-522	9- 9	SARAFIN	F	F	F	0	0	15000	1000	-	-	Time 16:40 hrs. Chum Peak Count.
258-522	9-13	BRENNAN	E	E	E	0	500	34230	500	4500P	1000Co 7000P	Time 14:30 hrs. Excellent look. Not too many fish in upper forks; most fish from old weir site down. Few chums and coho in stream. Plus 20,000 carcasses and 1 bear. Peak Counts.
258-522	9-23	JOHNSON	G	G		0	650	0	0	-	-	Time 11:26 hrs. Surveyed entire drainage. Lots of pinks in lower river, many carcasses...No estimates.
258-522	10-13	CHATTO	G			0	400	0	0	-	-	Time 11:55 hrs. Surveyed entire stream... windy.
258-522	11- 2	CHATTO	E	E		0	200	0	0	-	-	Time 11:45 hrs. Stream very low; dry in upper sections.
OLD HARBOR CREEK												
258-523	9-13	BRENNAN	E	G	F	0	0	650	200	200Co	-	Time 14:40 hrs. Coho at culvert. Peak Counts.
WEST THREE SAINTS												
258-531	8-12	HANDER	G	G		0	0	200	0	-	-	Time 13:00 hrs. Moderate flow. No bay survey. Pink Peak Count.
258-531	9-23	JOHNSON	E	E		0	0	150	0	-	-	Time 11:35 hrs. Looked at lower 1/4 mile. No bay estimate. Pink Peak Count.
S.W. THREE SAINTS												
258-532	8-12	HANDER	G	G		0	0	0	0	-	-	Time 12:56 hrs. Moderate flow. No fish seen. No bay survey.
258-532	9-23	JOHNSON	E	E		0	0	150	0	-	-	Times 11:40 hrs. Looked at lower 1/4 mile. No bay estimate. Peak Count.
KAIGUSNAK POINT												
258-541	8- 2	HANDER	G	G		0	0	1000	150	-	-	Time 14:43 hrs. Water low, dry upstream. No bay estimate. Plus 1 bear (sow).
258-541	8-17	BARNES	F			0	0	10000	2000	-	-	Time 12:09 hrs. Upper sections dry. Several balls of fish off mouth (no estimate).
258-541	8-23	PROKOPOWICH	E	E	E	0	0	30000	0	15000P	-	Time 13:55 hrs. Looks good. Pink Peak Count.
258-541	9-23	JOHNSON	G	G		0	300	0	0	-	-	Time 11:50 hrs. Still pinks in lower section of stream; no estimate.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
258-541	10-18	BARNES	G	G		0	300	0	0	-	-	Time 11:20 hrs. Upper 1/3 of stream dry. No bay survey. Coho Peak Count.
KAIUGNAK LAGOON												
258-542	8- 2	HANDER	G	G		0	0	0	0	2500Ch	-	Time 14:35 hrs. Water low. Incoming tide. Jumpers along beach outside; no estimate. Plus 1 bear (sow).
258-542	8- 8	PROKOPOWICH	G	G	G	0	0	400	0	75000P	20000P	Time 14:50 hrs. Creek water very low.
258-542	8-17	BARNES	G	P		0	0	2000	0	500P	-	Time 12:18 hrs. Good stream flow in upper section above mouth area. Lots of glare off mouth. No bay estimate.
258-542	8-23	PROKOPOWICH	E	E	E	0	0	55000	0	45000P	-	Time 13:40 hrs. Looks great. No estimate on chums. Peak Count.
258-542	9- 9	SARAFIN	F	F	P	0	0	0	0	-	-	Time 16:20 hrs. Lots of carcasses but no estimate. Difficult to see.
258-542	10-18	BARNES	F	G		0	0	0	0	-	-	Time 11:26 hrs. Good look, but no fish. No bay survey. One bear.
BRUIN CREEK												
258-544	8-17	BARNES	P	P		0	0	2000	0	4000P	-	Time 12:15 hrs. Lots of carcasses in lower 1/2 mile (no estimate). No bay survey.
258-544	8-23	PROKOPOWICH	G	G	G	0	0	10000	0	-	-	Time 13:45 hrs. Peak Count.
KIAVAK PORTAGE												
258-551	8- 2	HANDER	G	G		0	0	300	0	2500Ch	-	Time 14:50 hrs. Water low, dry upstream. No bay survey.
258-551	8-17	PROKOPOWICH	G	G	P	0	0	5600	0	-	-	Time 14:10 hrs. Poor visibility in bay. Pink Peak Count.
258-551	8-17	BARNES	G			0	0	2000	0	-	-	Time 12:23 hrs. Water very low.
258-551	9- 9	SARAFIN	F	F	F	0	0	3000	50	-	-	Time 15:30 hrs. Few thousand pinks. Very few chum in stream. No bay estimates. Chum Peak Count.
258-551	10-18	BARNES	G	G		0	0	0	0	-	-	Time 11:32 hrs. Good look, but no fish. No bay survey.
JAP BAY												
258-601	10-18	BARNES	G	G		0	1450	0	0	-	-	Time 12:59 hrs. Good look - lots of fish. No bay survey. Peak Count.
KAGUYAK BAY CREEK												
258-602	7-27	BRENNAN		F	F	0	0	0	0	700P	17000P	Time 14:15 hrs. Wind precludes good look. No stream survey.
258-602	8-17	BARNES	G			0	0	13000	1500	-	-	Time 12:46 hrs. Surveyed entire stream; quick look. Upper sections with low flow. No mouth or bay estimates.
258-602	8-17	PROKOPOWICH	G	G	G	0	0	22000	200	-	-	Time 14:10 hrs. Peak Count.
KAGUYAK FOX CREEK												
258-603	8-17	BARNES	G			0	0	8000	500	-	-	Time 12:51 hrs. Surveyed lower 1.0 mile. Peak Count.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Up Fish Bay	
SEVEN RIVERS												
258-701	7-15	PROKOPOWICH	G	G	G	0	0	100	0	15000P	-	Time 17:25 hrs. Water low. Pink Peak Count.
258-701	7-21	PROKOPOWICH	G	G	G	0	0	2500	0	-	-	Time 17:00 hrs. Low water. Fish in lagoon.
258-701	7-27	BRENNAN	G	G	F	0	0	4000	0	7000P	16000P	Time 14:00 hrs. Zip in river above forks. Low water. Hard to tell exactly how many outside. Poor look; windy. 3 bears on beach.
258-701	7-30	GRETSCH	E	E	E	0	0	8000	0	23000P	3200P	Time 12:15 hrs. Stream very low. Most fish in lower bends of stream. Small schools of pinks along beach.
258-701	7-30	NICHOLSON	G	G	G	0	0	6000	0	10000P	-	Time 15:00 hrs. Nothing seen on outside.
258-701	8- 8	PROKOPOWICH	G	G	G	0	0	5000	0	15000P	-	Time 15:25 hrs. Water very low in creek.
258-701	8-17	PROKOPOWICH	E	P	E	0	0	71000	0	-	-	Time 14:05 hrs. Jumpers at mouth but poor visibility in water. 26,000 to forks, 35,000 north fork, 10,000 west fork. Pink Peak Count.
258-701	10-18	BARNES	G	G		0	450	0	0	-	-	Time 13:47 hrs. Surveyed both forks. Most fish near forks. No bay survey. Plus 2 single bears and a sow with 3 yearlings. Coho Peak Count.
WALTER'S CREEK												
258-702	7-30	GRETSCH	E	E	E	0	0	0	0	800P	-	Time 12:40 hrs. Peak Count.
SOW CREEK												
258-704	7-30	GRETSCH	E	E	E	0	0	0	0	300P	-	Time 12:27 hrs. Peak Count.
KEVIN CREEK												
258-903	7-30	GRETSCH	E	E	E	0	0	0	0	300P	-	Time 12:50 hrs. Peak Count.
MONASHKA CREEK												
259-101	7-15	GRETSCH	G	G	G	0	0	0	0	-	-	Time 13:30 hrs. DEAD!
259-101	8- 5	GRETSCH	G	G	G	0	0	300	0	700P	-	Time 12:10 hrs. DEAD!
259-101	8- 9	GRETSCH	E	E	E	0	0	800	0	3000P	-	Time 10:30 hrs.
259-101	8-17	GRETSCH	G	G	F	0	0	3000	0	500P	-	Time 14:14 hrs. 100 dead pinks in creek. Peak Count.
259-101	10- 5	SPORTFISH	G	G		0	145	0	0	-	-	Foot Survey. Coho Peak Count.
PIIJAK CREEK												
259-102	7-15	GRETSCH	G	G	G	0	0	0	0	80P	-	Time 13:06 hrs. Flew culvert to bay.
259-102	8- 5	GRETSCH	G	G	G	0	0	250	0	700P	-	Time 12:05 hrs. Stream completely dry from mid-way to road.
259-102	8- 9	GRETSCH	G	E	E	0	0	300	0	6000P	-	Time 10:26 hrs. Stream low.
259-102	8-17	GRETSCH	F	F	F	0	0	0	0	6000P	-	Time 14:10 hrs. 200 dead pinks in creek. Pink Peak Count.
259-102	10- 3	SPORTFISH	G	G		0	69	0	0	-	-	Foot Survey. Coho Peak Count.
VIRGINIA CREEK												
259-105	8- 5	GRETSCH	G	G	G	0	0	300	0	-	600P	Time 12:20 hrs. Bay pinks about 1/2 mile out the bay from creek. Pink Peak Count.

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Appendix O.10. (page 21 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
259-105	10- 5	SPORTFISH	G	G		0	8	0	0	-	-	Foot Survey. Coho Peak Count.
BUSKIN RIVER												
259-211	7-15	GRETSCH	G	G	G	2000	0	4400	0	500P	-	Time 12:55 hrs. Flew from lake outlet to bay. Sockeye all in the snagging hole.
259-211	7-31	SPORTFISH	G	G		429	0	1299	0	-	-	Foot survey. Walked from lake to ocean. Sockeye count added to weir count.
259-211	8- 5	GRETSCH	F	F	F	0	0	3500	0	3000P	-	Time 11:53 hrs.
259-211	8- 9	GRETSCH	E	E	E	0	0	6500	0	6000P	-	Time 10:21 hrs. Pink Peak Count.
259-211	8-17	GRETSCH	G	G	P	0	0	13900	0	-	-	Time 14:01 hrs. No buildups at mouth. Flew lake to mouth.
259-211	8-20	BRENNAN		F	F	0	0	0	0	500P	5000P	Time 13:35 hrs. No stream survey; quick look at mouth and outside beaches. No big show.
259-211	9-10	BRENNAN	G	G	F	0	2000	39500	0	-	-	Time 13:10 hrs. Of stream fish 19,000 below weir, 20,500 above weir. Plus 10,000 carcasses. Poor show of cohos.
259-211	9-13	BRENNAN	E	E	E	0	2000	56000	0	100Co	200Co	Time 17:00 hrs. Quick look. 42,000 pinks above weir. Plus 14,000 carcasses. Pink Peak Count.
259-211	9-29	WEIR COUNT	E			9526	6813	53484	22	-	-	Final weir count. Pink count expanded from time of entry data to account for time weir out (July 31 to August 21). Also counted 10 chinook salmon. Dates of operation 5/30 - 7/31 and 8/21 - 9/29. Sockeye, Coho, Chum Peak Counts.
SARGENT'S CREEK												
259-221	7-15	GRETSCH	G	G	G	0	0	0	0	-	-	Time 12:40 hrs. DEAD!
259-221	8- 5	GRETSCH	G	G	G	0	0	500	0	2500P	-	Time 11:45 hrs.
259-221	8- 9	GRETSCH	E	E	E	0	0	1500	0	13000P	-	Time 10:10 hrs. Stream dry approximately 1 mile upstream of bridge. Peak Count.
259-221	8-20	BRENNAN	F	F	F	0	0	0	0	2000P	-	Time 13:45 hrs. Good show comparatively but still low for this time of year.
259-221	10- 2	SPORTFISH	G	G		0	83	0	0	-	-	Foot Survey. Coho Peak Count.
RUSSIAN RIVER												
259-222	7-15	GRETSCH	G	G	G	0	0	0	0	-	-	Time 12:30 hrs. DEAD.
259-222	8- 5	GRETSCH	G	G	G	0	0	2800	0	1500P	-	Time 11:40 hrs.
259-222	8- 9	GRETSCH	E	E	E	0	0	2500	700	7000P	8000P	Time 10:01 hrs. Flew stream up to small canyon. Good water flow. Pink, Chum Peak Count (include bay).
259-222	8-20	BRENNAN	F	F	F	0	0	0	0	500P	-	Time 13:45 hrs. Small show of scattered schools right out front.
259-222	10- 3	SPORTFISH	G	G		0	133	0	0	-	-	Foot Survey. Coho Peak Count.
SOLONIE CREEK												
259-223	7-15	GRETSCH	G	G	G	0	0	0	0	-	-	Time 12:15 hrs. Flew from rifle range to bay... dead.
259-223	8- 5	GRETSCH	G	G	G	0	0	1300	0	-	-	Time 11:35 hrs. Dead.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
259-223	8- 9	GRETSCH	E	E	E	0	0	3500	0	17000P	32000P	Time 9:50 hrs. Flew lower bends of stream, below bridge. Large school of fish in bay between Solonie and Russian River. Peak Count (include bay).
259-223	8-20	BRENNAN		F	F	0	0	0	0	-	-	Time 13:40 hrs. No stream survey.
259-223	10-18	SPORTFISH	G	G		0	274	0	0	-	-	Foot Survey. Coho Peak Count.
259-223	10-31	SPORTFISH	G	G		0	253	0	0	-	-	Foot Survey.
PANAMAROF CREEK												
259-224	8-20	BRENNAN	F	F	F	0	0	0	0	-	-	Time 13:40 hrs.
AMERICAN RIVER												
259-231	7-15	GRETSCH	G	G	G	0	0	700	10	-	-	Time 12:00 hrs. Dead!
259-231	7-30	GRETSCH	G	G	G	0	0	5200	100	3000P	-	Time 14:40 hrs. Water low and few fish.
259-231	8- 5	GRETSCH	G	G	G	0	0	6300	0	1000P	-	Time 11:19 hrs. Large school of bright fish near cattle guard above bridge.
259-231	8- 8	PROKOPOWICH		G	G	0	0	0	0	50000P	-	Time 13:35 hrs. No survey of stream. Excellent build up at mouth.
259-231	8- 9	GRETSCH	E	E	E	0	0	13000	0	55000P	-	Time 9:35 hrs. Large school at mouth of stream. Peak Count.
259-231	8-17	GRETSCH	G	F	P	0	0	29000	0	-	-	Time 13:55 hrs. Poor visibility in bay due to rain squalls.
259-231	9-10	BRENNAN	G	G	F	0	0	52700	2000	-	-	Time 16:00 hrs. Most fish in lower river. Plus 10,000 carcasses. Pink, Chum Peak Count.
259-231	10-20	SPORTFISH	G			0	412	0	0	-	-	Foot Survey. Coho Peak Count.
SALT CREEK												
259-233	8- 9	GRETSCH	E	E	E	0	0	0	0	3000P	-	Time 9:40 hrs. Flew stream; no fish present. Peak Count.
SID OLDS												
259-242	7-15	PROKOPOWICH	E	E	E	0	0	12000	300	-	-	Time 16:00 hrs. Good water flow. Fish up past Ben Deadman's place. 1,500 Dolly Varden in stream.
259-242	7-15	GRETSCH	E	E	E	0	0	18600	1500	3000P	-	Time 11:30 hrs. Fish present in canyon above Ben Deadman's cabin. Water level is low. Pink Peak Count.
259-242	7-30	GRETSCH	G	G	G	0	0	56000	1700	7000P	-	Time 14:35 hrs. Low water, some upper sections have no flow, pools.
259-242	8- 5	GRETSCH	G	G	G	0	0	58000	2500	500P	3000P	Time 11:10 hrs. Spawned out pinks above Deadman's cabin. Dead chums along middle section of river. Very low water, some chums trapped in pools.
259-242	8-17	GRETSCH	G	G	F	0	0	69000	7000	-	-	Time 13:45 hrs. Improved stream flow. 500 dead chum mid-stream, probably caused by the drought. Pink, Chum Peak Count.
259-242	9-10	BRENNAN	G	G	F	0	2000	35000	5000	1600Co	-	Time 15:45 hrs. Of pinks 9,000 below bridge and 7,000 just above bridge. Plus 24,000 carcasses. Nothing outside. Lots of sport fishing activity.
259-242	10- 5	SPORTFISH	G	G		0	525	0	0	-	-	Foot Survey. Coho Peak Count.
259-242	10-31	SPORTFISH	G	G		0	474	0	0	-	-	Foot Survey.

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Appendix O.10. (page 23 of 30)

Stream	Date MM-DD	Observer	Visibility		-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
MYRTLE CREEK 259-245	8-5	GRETSCH	G	G	0	0	0	0	5300P	-	Time 11:08 hrs. Passed over mouth of creek; estimate from road to mouth. Peak Count.
ROSLYN CREEK 259-251	7-15	GRETSCH	G	G	0	0	0	0	300P	-	Time 11:45 hrs. Flew lower parts of river - no fish present.
259-251	7-30	GRETSCH	E	E	0	0	8000	0	13000P	-	Time 14:30 hrs. Flew mouth and lower bends of river.
259-251	8-5	GRETSCH	G	G	0	0	5000	700	8000P	8000P	Time 10:46 hrs. Flew approximately 3 miles. Most fish in lower part of river. Chum, Pink Peak Count (include bay).
259-251	8-17	GRETSCH	F	F	0	0	0	0	8000P	-	Time 13:36 hrs. Didn't fly the stream due to poor weather conditions. New fish at mouth.
259-251	10-15	SPORTFISH	G	G	0	148	0	0	-	-	Foot Survey. Coho Peak Count.
259-251	10-22	SPORTFISH	G	G	0	137	0	0	-	-	Foot Survey.
^&{&dDTWIN CREEK^&d@ 259-252	8-5	GRETSCH	F	F	0	0	0	0	20000P	2500P	Time 10:30 hrs. Small schools of pinks along the beach.
259-252	8-17	GRETSCH	G	G	0	0	0	0	6000P	6000P	Time 13:31 hrs. Didn't fly stream due to poor weather conditions. Fish along beach and mouth bright, new pinks. Peak Count (include bay).
CAPELIN CREEK 259-253	7-30	GRETSCH	E		0	0	0	0	20000P	-	Time 14:20 hrs. Flew mouth of creek only.
CHINIAK CREEK 259-254	7-30	GRETSCH	E	E	0	0	10000	0	10000P	40000P	Time 14:10 hrs. Large school at mouth and down the beach. Dense with fish.
259-254	8-5	GRETSCH	G	F	0	0	54000	0	20000P	2300P	Time 10:19 hrs. Visibility fair at mouth. Flew approximately 4 miles upstream; fish throughout this distance. Peak Count.
259-254	8-17	GRETSCH	G	G	0	0	0	0	7000P	12000P	Time 13:28 hrs. Didn't fly creek due to rain squalls. Fish along beach and mouth are new, bright pinks.
CHINIAK LAGOON 259-255	8-17	GRETSCH	E	E	0	0	0	0	1200P	-	Time 13:25 hrs. Peak Count.
CRESCENT CREEK 259-362	9-10	BRENNAN	G	G	0	150	0	300	-	-	Time 13:20 hrs. Couple of cohos jumping just off mouth. Most fish in river. Peak Count.
BARABARA CREEK 259-363	6-21	BRENNAN	G	G	0	0	0	0	-	500R	Time 18:20 hrs. Didn't see fish in lake, but quick look.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
259-363	7-6	GRETSCH	E	F	F	0	0	0	0	700R	-	Time 14:30 hrs. No fish in the shallows of the lake. Jumpers present at mouth of stream but difficult to see.
259-363	7-9	PROKOPOWICH	E	E	E	800	0	0	0	-	-	Time 16:20 hrs. Majority of reds in the middle inlet creek.
259-363	7-27	GRETSCH	E	E	E	5300	0	0	0	-	-	Time 10:25 hrs. Sockeye in shallow flats of the lake, and a few along north shore. Sockeye Peak Count.
KIZHUYAK RIVER												
259-365	7-27	BRENNAN	E	G	G	0	0	4200	0	3900P	31400P	Time 11:10 hrs. Bay count may be a bit high.
259-365	7-27	GRETSCH	E	E	E	0	0	3200	0	5500P	38000P	Time 15:12 hrs. Flew from hydro camp out to the bay. 30,000 in bay east side, 8,000 on west side.
259-365	8-5	BRENNAN	G	G	G	0	0	10000	500	28000P	-	Time 12:15 hrs. Creek looks very poor, but fish in mouth. Chum Peak Count.
259-365	8-9	GRETSCH	E	E	E	0	0	7000	200	56000P	-	Time 11:10 hrs. Chum in Beaver Pond Creek. Flew upstream to hydro camp. Pink Peak Count.
PESTCHANIE CREEK												
259-366	8-9	GRETSCH	E	E	E	0	0	0	0	-	150P	Time 11:20 hrs. Low water. Peak Count.
SHERATIN RIVER												
259-371	7-21	PROKOPOWICH	G	G	G	0	0	700	200	100Ch	-	Time 15:05 hrs. Good water flow.
259-371	7-27	GRETSCH	E	E	E	0	0	6400	200	2500P	30000P 500Ch	Time 10:15 hrs.
259-371	8-5	GRETSCH	F	F	F	0	0	3500	0	35000P	-	Time 12:39 hrs. Bay visibility fair; no jumpers. Most fish at or near mouth.
259-371	8-9	GRETSCH	E	E	E	0	0	14000	0	27000P	-	Time 10:50 hrs. River is dry approximately 3 miles upstream. Pink Peak Count.
259-371	9-10	BRENNAN	G	G	F	0	0	9000	2000	-	-	Time 15:30 hrs. Plus 5,000 carcasses. Chum Peak Count.
MONK'S LAGOON												
259-395	9-12	PROBASCO	G	G	G	0	450	0	0	-	-	Foot survey. Peak Count.
SOLDIER'S BAY												
259-397	8-5	GRETSCH	G	G	G	0	0	1200	0	1500P	6500P	Time 12:30 hrs. Looks excellent in bay. Lots of jumpers.
259-397	8-9	GRETSCH	E	E	E	0	0	8700	0	7000P	8000P	Time 10:50 hrs. Surveyed from sharp S-bend in river to bay. Peak Count.
PANAGSHAK RIVER												
259-411	7-15	GRETSCH	E	E	E	16000	0	0	0	300P	200P	Time 11:15 hrs. Sockeye all in the lake. Sockeye, Pink Peak Count.
259-411	8-17	GRETSCH	G	E	E	16000	0	0	0	-	-	Time 13:15 hrs. Two schools of sockeye up near the culverts under the road. Mouth of river blocked; gravel buildup and low water. No fish near the mouth or along outside beach.

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Appendix O.10. (page 25 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
259-411	10-25	SPORTFISH	G	G		0	612	0	0	-	-	Foot Survey.
259-411	11- 6	SPORTFISH	E			0	1337	0	0	-	-	Foot Survey. Coho Peak Count.
MIAM RIVER												
259-412	7-15	GRETSCH	G	G	G	500	0	2500	0	500P	1000P	Time 11:00 hrs. Sockeye present near outlet of Miam Lake.
259-412	7-15	PROKOPOWICH	E	E	E	500	0	7500	0	1000R	-	Time 16:15 hrs. Water very low. No reds seen in lake. Pink Peak Count.
259-412	7-27	BRENNAN	G	G	G	0	0	10000	0	4000P	-	Time 15:40 hrs. Quick look, almost out of gas. Looks good.
259-412	8-17	GRETSCH	G	G	G	600	0	14000	0	5000P	-	Time 13:08 hrs. River is low. Sockeye in upper part of lake.
259-412	8-23	PROKOPOWICH	G	G	G	1200	30	25000	0	-	-	Time 15:00 hrs. Excellent pink escapement. Coho at lake outlet. Reds at Inlet stream. Sockeye, Pink Peak Count.
259-412	9-13	BRENNAN	E	E	E	0	4700	21000	0	-	-	Time 16:15 hrs. Good distribution. Suprising number of coho...1,800 at head of lake, 700 at lake mouth, rest in stream. Plus 5,000 carcasses. Coho Peak Count.
HURST CREEK												
259-414	9-13	BRENNAN	E	E	E	0	0	6000	0	-	-	Time 16:45 hrs. Lot of carcasses...5,000 at mouth and 6,000 in river. Peak Count.
SALTERY RIVER												
259-415	6-21	BRENNAN	G	G	G	450	0	0	0	5R	-	Time 15:45 hrs. Of stream fish 250 plus already off upper creek in lake. Plus 1,700 Dollies.
259-415	7-27	BRENNAN	G	G	G	0	0	1500	200	15000P	-	Time 15:20 hrs. No show out front.
259-415	8- 8	WEIR COUNT	E			77186	5	92078	3	-	-	Final weir count. Dates of operation 6/23 - 8/8. Peak Counts.
259-415	9- 9	SARAFIN	P	P	P	0	0	0	0	-	-	Time 18:00 hrs. Water murky. Saw several schools of coho scattered through river. No estimate made.
259-415	9-13	BRENNAN	E	E	E	0	1500	48000	3000	2000Co	1000Co	Time 16:35 hrs. Plus 15,000 carcasses (2/3+ pinks). Chum, Coho, Pink Peak Counts.
HIDDEN BASIN												
259-418	8- 5	BRENNAN	G	G	G	0	0	0	0	-	-	Time 12:30 hrs.
WEST BASIN CREEK												
259-419	8- 5	BRENNAN	G	G	G	0	0	0	0	-	-	Time 12:35 hrs.
GLOTTOP CREEK												
259-420	8- 5	BRENNAN	G	G	G	0	0	0	0	-	-	Time 12:40 hrs.
GOAT LAKE CREEK												
259-422	8- 5	BRENNAN	G	G	G	0	0	0	0	1200P	-	Time 13:15 hrs. Peak Count.

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Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
KILIUDA PASS CREEK												
259-423	8- 5	BRENNAN	G	G	G	0	0	500	0	150P	2000P	Time 12:45 hrs. Peak Count (include bay).
EAGLE HARBOR												
259-424	7-15	PROKOPOWICH	E	E	E	0	0	1000	0	1500P	-	Time 16:25 hrs. Low water. No chums seen.
259-424	8- 8	PROKOPOWICH	E	E	E	0	0	44000	0	11500P	-	Time 13:45 hrs. Excellent fish distribution. Water level is very low and appears to be dropping. Peak Count.
259-424	9- 9	SARAFIN	P	P	P	0	0	0	0	-	-	Time 17:50 hrs. Saw a few groups of coho in lower river bends. Visibility not good enough to enumerate.
259-424	9-13	BRENNAN	E	E	G	0	2900	49000	11000	1100P	-	Time 16:00 hrs. Excellent distribution. Good water flow. Fish thick in deep pools on east fork. Plus 5,000 carcasses. Peak Counts.
GULL CAPE LAGOON												
259-428	8-17	GRETSCH	F	G	E	0	0	0	0	-	-	Time 13:00 hrs. No fish observed in lagoon or along outside beach.
259-428	8-23	PROKOPOWICH	P	P	P	0	0	0	0	-	-	Time 14:55 hrs. Nothing seen in lagoon and poor visibility outside lagoon.
259-428	9- 9	SARAFIN	G	G	G	0	0	0	4000	4000Ch	-	Time 15:00 hrs. Mouth fish were actually in lagoon.
259-428	9-13	BRENNAN	E	E	F	0	0	0	17450	600Ch	-	Time 15:40 hrs. All creeks have good water flow, and good fish distribution. About 9,000 chums still in lagoon (counted as stream fish). Peak Count.
SWIKSHAK RIVER												
262-151	7- 6	GRETSCH	G	G	G	500	0	0	0	-	-	Time 11:30 hrs. One school of fish in upper part of river. Flew around mouth - no jumpers.
262-151	7-22	PROKOPOWICH	E	E	E	28000	0	0	0	-	-	Time 12:40 hrs. Looks good. Sockeye Peak Count.
262-151	8-17	BRENNAN	E	G	F	13500	6	0	0	-	-	Time 15:40 hrs. Good look. Lots of sockeye left. river fairly clear but no show below.
262-151	9-13	PROKOPOWICH	E	E	E	0	31000	0	0	-	-	Time 12:00 hrs. Looks excellent. Three plane loads of sport fishermen. One wrecked 206. Coho Peak Count.
BIG RIVER												
262-152	7-22	PROKOPOWICH	G	G	G	0	0	0	2200	150Ch	-	Time 13:00 hrs. Looks weak.
262-152	8- 2	PROKOPOWICH	G	G	G	0	0	1500	9800	7500Ch	-	Time 13:45 hrs. Looks weak.
262-152	8-17	BRENNAN	E	E	G	0	0	59000	18000	-	-	Time 15:55 hrs. Pinks still in river bends; chums well distributed. Three planes of sport fishers. Plus 9,000 pink carcasses. Chum, Pink Peak Counts.
262-152	9-13	PROKOPOWICH	E	E	E	0	2900	0	0	-	-	Time 12:10 hrs. Surveyed first two miles. Most fish in braided sections. No sportfish effort. Coho Peak Count.
VILLAGE CREEK												
262-153	7-22	PROKOPOWICH	G	G	G	0	0	0	1600	2000Ch	-	Time 12:50 hrs. Looks weak.

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Appendix O.10. (page 27 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
262-153	8- 2	PROKOPOWICH	G	G	G	0	0	1360	2040	17000Ch	2500Ch	Time 13:30 hrs. Looks a little better. Bay fish between Village Creek and Chiniak Lagoon. Peak Counts (include bay).
CHINIAC LAGOON												
262-154	7-22	PROKOPOWICH	G	G	G	0	0	0	150	100Ch	-	Time 13:15 hrs. Stream fish in lagoon.
262-154	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	1000P	-	Time 13:55 hrs. Nothing seen in lagoon.
										2500Ch		
262-154	8-17	BRENNAN	E	E	G	0	0	0	3500	500Ch	-	Time 16:00 hrs. Scattered schools. No show on outside. Peak Count.
HALLO CREEK												
262-204	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	3500Ch	-	Time 14:15 hrs. Peak Count.
CAPE CHINIAC CREEK												
262-205	7-22	PROKOPOWICH	G	G	G	0	0	0	0	300P	-	Time 13:30 hrs. Nothing seen in stream.
262-205	8- 2	PROKOPOWICH	E	E	E	0	0	300	0	1500P	-	Time 14:05 hrs. Peak Count.
KUKAK BAY												
262-25	8- 9	BRENNAN			F	0	0	0	0	-	-	Time 9:45 hrs. Quick look at bay. Water very murky, but good light. Willie saw scattered schools and jumpers here yesterday. Today no sign of fish. Arco exploration ship.
KUKAK CREEK												
262-271	8- 9	BRENNAN	E	E	F	0	0	1500	50	-	-	Time 10:00 hrs. Several indistinct schools in bay to east, but too muddy to be positive. Some fish in index creek. Pink Peak Count.
262-271	8-17	BRENNAN	E	E	F	0	0	200	100	-	10000Ch	Time 16:15 hrs. Index area looks poor.
262-271	9-13	PROKOPOWICH	F	F	F	0	0	0	10500	1500Ch	-	Time 12:20 hrs. Stream count includes 1,500 chums in sample fork. Water murky. Looked poor overall. Chum Peak Count.
KAPLIA CREEK												
262-301	7- 6	GRETSCH	E	F	G	5000	0	0	0	2000R	-	Time 12:00 hrs. Four schools of salmon near outlet of river to the bay; assume they are sockeye.
262-301	7-22	PROKOPOWICH	E	E	E	11500	0	0	0	1500R	-	Time 13:45 hrs.
262-301	8-17	BRENNAN	E	G	F	16000	0	1000	0	2000R	-	Time 16:30 hrs. 1800 reds at head of upper lake, most at base of falls in lower lake. Mixed bag outside in lagoon. Peak Counts.
										2000Co		
										2000P		
HALFERTY CREEK												
262-351	7-22	PROKOPOWICH	G	G	G	300	0	0	0	150R	-	Time 14:00 hrs. Peak Count.
MISSAK CREEK												
262-402	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	15800P	-	Time 14:25 hrs. Water very low in creek.
262-402	8- 9	BRENNAN	E	E	G	0	0	200	0	1800P	5500P	Time 10:05 hrs. Not much in creek, but water low. Several schools scattered on beach south of mouth.

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Appendix O.10. (page 28 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
262-402	8-17	BRENNAN	G	G	G	0	0	100	0	3400P	-	Time 16:45 hrs. Peak Count.
KINAK CREEK												
262-451	8- 2	PROKOPOWICH	G	G	G	0	0	400	0	500P	-	Time 14:35 hrs. Few scattered schools along north side beaches.
262-451	8- 9	BRENNAN	E	E	E	0	0	4700	50	700P	5000P 500Ch	Time 10:10 hrs. Bay fish in coves south of stream mouth. Two bears in stream. Lots of sea cucumber fishing activity...5 boats here and 3 to north. Pink Peak Count.
262-451	8-17	BRENNAN	G	G	G	0	0	9000	0	7000P	-	Time 17:00 hrs. No show outside.
262-451	9-13	PROKOPOWICH	E	E	E	0	0	40000	2000	300Co 100P	-	Time 12:30 hrs. Good water flow and fish distribution. Peak Counts.
GEOGRAPHIC CREEK												
262-501	8- 2	PROKOPOWICH	G	G	G	0	0	200	0	-	-	Time 14:50 hrs. Peak Count.
262-501	8- 9	BRENNAN	E	E	E	0	0	150	0	-	-	Time 10:25 hrs. Very little show at main creek.
KIED CREEK												
262-504	8- 2	PROKOPOWICH	G	G	G	0	0	0	0	-	300P	Time 14:45 hrs.
262-504	8- 9	BRENNAN	E	E	E	0	0	0	0	1500P	-	Time 10:20 hrs. Fish off mouth. Good visibility. Two bears. Peak Count.
DAKAVAK												
262-551	7-30	BRENNAN	E	G	G	0	0	2500	0	2000P	2000P	Time 12:15 hrs. Looks very poor.
262-551	8- 2	PROKOPOWICH	E	E	E	0	0	2500	0	10500P	-	Time 15:00 hrs. Needs marker moved due to stream mouth change. Peak Count.
262-551	8- 9	BRENNAN	E	E	G	0	0	1900	0	8500P	500P	Time 10:35 hrs. Bay looked pretty blank. Most fish from mouth to first bend in river.
262-551	8-17	BRENNAN	G	G	G	0	0	3100	0	-	-	Time 17:20 hrs. Looks poor. No fish showing outside on beach.
262-551	9-13	PROKOPOWICH	F	G	G	0	0	21000	1000	100Co	-	Time 12:40 hrs. Looked fair overall. Lots of bear activity in upper reaches, but visibility only fair. Peak Counts.
AJOGGSHAK CREEK												
262-602	8- 9	BRENNAN	P	P	F	0	0	0	0	-	-	Time 10:45 hrs. Solid mud in creek and mouth. Unable to see any fish. Four bears on flats.
NASHVIK CREEK												
262-604	7-22	PROKOPOWICH	G	G	G	0	0	4500	500	-	-	Time 14:15 hrs. Tent camp set up. Chum Peak Count.
262-604	7-30	BRENNAN	E	G	G	0	0	43000	0	15000P	7500P	Time 12:00 hrs. Lots-o-fish. Most are jammed in lower river bends.
262-604	8- 9	BRENNAN	E	E	G	0	0	50000	0	5000P	17000P	Time 10:55 hrs. Lots-o-fish! Many schools scattered on flats and up into mouth. Huge balls of pinks right in first deep river bend. One bear. Peak Count.

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Appendix O.10. (page 29 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay	
BIG ALINCHAK												
262-651	7-22	PROKOPOWICH	E	E	E	0	0	1000	0	2000P 400Ch	6500P	Time 15:00 hrs. Bay fish along build up beach.
262-651	7-30	BRENNAN	G	G	G	0	0	24700	0	5000P	20000P	Time 11:50 hrs. Excellent look. 19,700 fish up to preemergent sites. Peak Count.
LITTLE ALINCHAK												
262-652	7-22	PROKOPOWICH	E	E	E	0	0	0	0	-	35000P	Time 14:40 hrs. Bay fish between lagoon and Teredactyl Creek. Looks strong.
262-652	7-30	BRENNAN	G	G	G	0	0	3000	0	3000P	23000P	Time 11:45 hrs. Looks really good. Peak Count.
BEAR BAY CREEK												
262-654	8- 9	BRENNAN	E	G	F	0	0	0	4700	9200Ch	-	Time 11:10 hrs. Good shot of chums in outside channel (tide low). One caribou and one bear. Peak Count.
BEAR LAKE CREEK												
262-655	7-22	PROKOPOWICH	G	G	G	275	0	0	0	-	-	Time 14:30 hrs. Peak Count.
WEST BEAR CREEK												
262-656	8- 9	BRENNAN	E	F	F	0	0	1700	0	-	-	Time 11:15 hrs. Peak Count.
PORTAGE CREEK												
262-702	7-30	BRENNAN	G	G	F	0	0	5300	0	2000P	-	Time 11:35 hrs. Some show but not a lot. Poor look on outside; windy, but diminishing as we go north. Peak Count.
TERESA CREEK												
262-703	7-30	BRENNAN	G	G		0	0	0	0	-	-	Time 11:30 hrs. Quick fly-by. Nada.
TRAIL CREEK												
262-704	7-30	BRENNAN	G	G		0	0	0	0	-	-	Time 11:30 hrs. Quick fly-by. No show.
KATIE CREEK												
262-705	7 30	BRENNAN	G	G		0	0	2000	0	-	-	Time 11:30 hrs. Quick fly-by. Not too impressive. Peak Count.
OIL CREEK												
262 751	7-30	BRENNAN	G	G	F	0	0	7000	0	7000P	-	Time 11:25 hrs. Fish right on beach out front. Very windy. Peak Count.
262-751	8- 9	BRENNAN	G	G	F	0	0	1400	0	5500P	-	Time 11:35 hrs. Quick look...getting windy. Estimate of fish in mouth is likely low.
DRY BAY												
262 752	8- 9	BRENNAN	G	G	F	0	0	0	2550	10000Ch	-	Time 11:30 hrs. Good show of fish in lagoon and right in stream mouth. Peak Count.

-Continued-

Appendix O.10. (page 30 of 30)

Stream	Date MM-DD	Observer	Visibility			-----Fish in Stream-----				Build Up Fish		Observer Remarks				
			Str	Mou	Bay	Sockeye	Coho	Pink	Chum	Mouth	Bay					
JUTE CREEK																
262-801	8- 9	BRENNAN	|	G	G	F	|	0	0	250	0	|	1900P	15000P	|	Time 11:45 hrs. Very few seen in creek but good show outside. Peak Count.
KANATAK																
262-802	7-30	BRENNAN	|	G	G	P	|	0	0	23500	0	|	5000P	3000P	|	Time 11:10 hrs. Windy, so quick look. Poor view of outside waters. Peak Count.
WIDE BAY																
262-85	8- 9	BRENNAN	|		F	F	|	0	0	0	0	|	-	-	|	Time 13:20 hrs. Water on flats at head of bay fairly clear but NO sign of fish.
LITTLE BIG CREEK																
262-850	8- 9	BRENNAN	|	E			|	0	0	5000	0	|	-	-	|	Time 12:30 hrs. Lots of pinks in bay but likely headed for Big Creek. (See 262-851). Peak Count.
BIG CREEK																
262-851	7-30	BRENNAN	|	G	G	F	|	0	0	38700	5000	|	7000P 1500Ch	24000P 1500Ch	|	Time 10:45 hrs. Most fish below lake, stacked up in deep holes and river bends. Blowing 40. Poor look out front. Nine boats fishing Cape Igvak.
262-851	8- 9	BRENNAN	|	E	G	F	|	0	0	45000	5000	|	16000P	28000P	|	Time 12:10 hrs. River looks good. Chum estimate is conservative; mixed with pinks. More chums further up. One plane in lake and 5 sport fishermen in river. Windy (K-Hi-C present), so quick look. Peak Counts (include bay).
DES MOINES CREEK																
262-852	7-30	BRENNAN	|	G	G	F	|	0	0	7000	0	|	-	33000P	|	Time 10:55 hrs. Blowing steady W40. Poor look at river (lower one mile only).
262-852	8- 9	BRENNAN	|	E	G	F	|	0	0	18000	2000	|	3000P	19000P	|	Time 12:50 hrs. Bay fish to north. Quick look...windy. Peak Count (include bay).
PASS CREEK																
262-853	8- 9	BRENNAN	|	E	G	F	|	0	0	2400	0	|	500P	23000P	|	Time 13:00 hrs. Most fish on beach. Quick look...very windy. Peak Count (include bay).
SHORT CREEK																
262-854	8- 9	BRENNAN		E	G	F		0	0	3000	0		10000P	-		Time 13:10 hrs. Peak Count.

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APPENDIX P
Commercial Harvest

Appendix P.1. Key to commercial salmon fishing statistical area numbers by district and section names in the Kodiak Management Area, 1994.

DISTRICT Section	Statistical Areas
AFOGNAK DISTRICT	
Raspberry	251-10
S.W. Afognak	251-10,20
N.W. Afognak	251-30,40,50
Shuyak	251-60,70,81
Perenosa	251-83,82
N.E. Afognak	251-90,252-10,20
Izhut	252-30
Kittoi Bay	252-32
Duck Bay	252-31
S.E. Afognak	252-33,34,35
N.W. KODIAK DISTRICT	
Central	253-11,12,13,14,31,32, 33,35; 254-10,20,30,40
North Cape	259-36,37,38,39
Anton Larsen	259-38
Sheratin	259-37
Kizhuyak	259-36
Terror Bay	253-33
Inner Uganik	253-12
Spiridon Special Harvest Area	254-50
Spiridon	254-40
Zachar	254-30
Uyak	254-20
S.W. KODIAK DISTRICT	
Outer Karluk	255-20
Inner Karluk	255-10
Sturgeon	256-40
Halibut Bay	256-25,30
Outer Ayakulik	256-10,20
Inner Ayakulik	256-10,20
ALITAK BAY DISTRICT	
Cape Alitak	257-10,20
Moser/Olga Bay	257-40,41
Dog Salmon Flats	257-40
Outer Akalura	257-30
Inner Akalura	257-30
Outer Upper Station	257-30
Inner Upper Station	257-30
Humpy/Deadman	257-50,60,70

-Continued-

Appendix P.1. (page 2 of 2)

DISTRICT Section	Statistical Areas
EASTSIDE KODIAK DISTRICT	
7-Rivers	258-70, 80, 83, 85, 90
Twoheaded	258-54, 55, 60
Sitkalidak	258-10, 20, 30, 40, 51, 52, 53
Outer Ugak	259-40, 41, 42
Inner Ugak	259-41, 42
N. E. KODIAK DISTRICT	
Outer Chiniak	259-21, 25
Inner Chiniak	259-21, 23, 24
Buskin River	259-21, 22
Monashka/Mill Bay	259-10
MAINLAND DISTRICT	
Big River	262-10, 15
Hallo Bay	262-20
Outer Kukak	262-25, 30
Inner Kukak	262-27
Dakavak	262-35, 40, 45, 50, 55
Katmai	262-60
Alinchak	262-65, 70
Cape Igvak	262-75, 80, 90, 95
Wide Bay	262-85

Appendix P.2.

Purse seine commercial salmon harvest by day, by statistical area, by species (in number and pounds) for the Kodiak Management Area, 1993.

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25110	06/14	4	4	22	258	4110	19500	0	0	24	64	14	73
	06/15	6	6	45	690	3722	15228	1	9	54	184	49	278
	06/16	10	10	72	616	5943	29202	2	12	157	482	199	876
	06/17	5	5	7	92	1886	7662	2	15	49	158	77	308
	06/18	17	18	142	1440	8006	36746	4	23	478	1414	348	1766
	06/19	25	27	168	1883	10644	51359	2	15	1737	5448	1660	9976
	06/20	28	28	337	3272	6521	30174	82	466	1638	4765	1356	6968
	06/21	9	9	278	2103	3908	16407	3	17	1043	3179	1481	6244
	06/22	10	10	74	633	3565	15911	0	0	1167	3270	532	2904
	06/23	6	6	45	531	1678	7002	2	6	508	1508	280	1466
	06/24	14	14	124	1516	3641	16368	7	30	1536	4825	818	4196
	06/25	*	*	10	118	595	2539	0	0	446	1170	68	326
	06/26	6	6	6	107	867	3897	0	0	922	2684	227	1107
	06/27	10	10	41	333	2679	12035	2	11	2762	8569	741	3918
	06/28	7	7	55	734	1734	8308	0	0	2082	6203	505	2914
	06/29	7	9	39	401	2407	9850	3	17	2617	6948	267	1544
	06/30	10	10	133	1192	4541	19301	1	9	4997	13610	1546	7407
	07/01	5	5	21	176	1525	7308	0	0	709	2148	379	1880
	07/02	7	7	59	644	2245	11330	13	76	3264	9614	1079	5643
	07/03	4	4	19	182	2173	10352	36	242	3901	10229	704	4026
	07/04	4	4	11	144	1993	8371	0	0	3053	10143	237	1352
	07/05	14	16	71	1101	10742	57948	20	136	11410	34780	940	6402
	07/06	10	10	19	296	4315	22987	16	100	8003	26292	457	3001
	07/07	*	*	12	171	712	3316	10	65	931	2663	90	498
	07/08	7	7	28	333	2287	11247	95	671	6160	18079	447	2053
	07/09	5	5	8	130	3191	16980	22	143	4579	12939	178	1065
	07/10	*	*	15	101	1523	8455	20	177	402	1570	28	238
	07/11	7	7	54	562	5295	27977	294	1702	6129	18248	521	2268
	07/13	*	*	2	23	1645	9882	27	146	1176	3710	43	313
	07/14	9	9	31	110	1994	12075	71	493	2949	8845	177	1033
	07/15	5	5	11	131	371	1869	27	166	1375	4195	71	464
	07/16	7	8	18	212	2510	15169	173	1077	6918	20368	271	1601
	07/17	6	6	10	116	1948	10786	68	413	4618	13560	174	1134
	07/18	*	*	18	187	1063	5561	157	903	3953	12175	128	702
	07/20	*	*	1	39	248	1408	26	172	896	3032	38	226
	07/21	*	*	5	23	425	2280	133	720	7018	20814	20	109
	07/22	6	6	38	425	2478	13669	435	2858	14816	48240	91	576
	07/23	9	9	65	753	2432	13909	507	3182	14471	42849	361	2220
	07/24	10	12	29	281	3492	20153	452	2702	13197	40030	432	2679
	07/26	*	*	0	0	638	3698	0	0	0	0	0	0
	07/28	*	*	8	76	942	5561	99	647	3278	12572	313	1758
	07/29	*	*	21	376	3056	18224	277	1883	12276	37332	735	3758
	07/30	*	*	7	91	128	662	270	1850	1179	3538	35	217
	08/01	4	4	0	0	239	1414	88	627	13918	43868	47	304

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/02	*	*	1	16	123	765	17	90	5160	16609	44	304
	08/04	*	*	0	0	30	178	11	61	950	3222	17	96
	08/06	*	*	0	0	64	510	34	200	10130	31011	40	295
	08/07	*	*	0	0	7	42	1	7	700	2249	20	142
	08/08	*	*	0	0	85	400	15	154	1025	3878	12	78
	08/09	*	*	69	748	749	3853	309	2464	12842	45624	90	635
	08/10	*	*	0	0	185	1110	60	360	6285	18855	28	170
	08/11	*	*	0	0	386	1930	38	233	10862	32585	64	387
	08/15	*	*	1	27	400	2000	57	513	8832	26461	40	327
	08/16	*	*	0	0	858	4177	178	1434	19766	68829	114	644
	08/18	*	*	1	12	55	322	337	2152	3050	9209	11	70
	08/19	*	*	1	11	218	1009	230	1577	8907	27274	70	386
	08/20	*	*	0	0	8	40	2	13	361	1049	0	0
	TOTAL	116	347	2252	23416	129225	640416	4736	31039	261666	813169	18714	101325
	AVG. WT.				10.40		4.96		6.55		3.11		5.41
25120	06/15	7	7	52	965	14211	66698	0	0	79	232	55	398
	06/16	11	11	113	1656	11867	54167	0	0	259	726	399	2056
	06/17	5	5	9	142	1791	8799	0	0	74	204	62	542
	06/18	4	4	3	25	1791	7929	0	0	50	175	62	332
	06/19	7	7	30	336	4374	19787	0	0	862	2587	614	3715
	06/20	6	6	114	1108	1689	8003	0	0	311	951	262	1077
	06/21	11	11	146	1567	3998	18996	1	5	1275	3614	654	3484
	06/22	11	11	28	267	2658	12396	0	0	1244	3724	513	2695
	06/23	7	7	102	765	1424	6360	0	0	640	2186	256	1228
	06/24	9	9	247	2205	1892	8450	0	0	943	2739	104	507
	06/25	*	*	78	697	1464	6070	0	0	837	2426	120	661
	06/26	7	7	296	3336	2698	12483	7	40	3794	11706	544	2834
	06/27	4	4	29	296	2001	8905	0	0	2294	7132	561	2856
	06/28	7	9	77	768	2638	12209	10	52	4272	12308	694	4119
	06/29	*	*	43	497	757	3124	0	0	790	2483	37	332
	06/30	5	7	231	1878	3055	14334	23	111	4008	12077	384	2335
	07/01	5	5	35	411	1722	7767	0	0	2364	7636	220	1096
	07/02	*	*	7	98	1614	7842	0	0	2547	7063	254	1518
	07/03	5	5	86	925	2047	9463	38	226	5195	14562	220	1333
	07/04	*	*	3	30	826	4111	1	7	567	1909	15	91
	07/05	6	8	15	138	6861	34366	20	127	5490	16319	353	2173
	07/06	6	6	6	77	3566	18498	3	11	3001	8911	189	1246
	07/07	15	15	42	394	3467	17293	65	564	10105	29422	663	3385
	07/08	7	7	5	96	5005	27615	27	172	3383	9206	203	1097
	07/09	6	6	206	2094	3025	17620	56	385	3556	10156	247	1355
	07/10	8	9	19	272	3704	20297	25	141	2530	7378	212	1265
	07/13	6	6	2	34	2996	18167	46	416	2212	7150	58	436
	07/14	10	10	23	281	3189	19132	73	489	3832	11876	213	1430
	07/15	4	4	5	59	466	2743	15	126	1490	4519	78	522
	07/16	8	8	2	8	1596	9979	61	489	4787	14321	631	2845

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/17	9	9	27	451	2091	11331	134	890	7085	21657	212	1495
	07/20	*	*	0	0	11	60	2	15	370	1170	0	0
	07/21	*	*	4	90	140	837	155	1202	6935	21974	10	74
	07/22	5	5	25	250	864	4600	389	2596	18203	56107	108	603
	07/23	7	9	22	392	2104	13100	830	5089	34474	91621	290	1771
	07/24	15	22	80	1450	4559	28535	1972	12838	31228	97539	519	3192
	07/25	4	4	26	379	1293	7635	714	4576	12141	37179	259	1489
	07/26	*	*	0	0	71	396	4	28	947	2886	13	67
	07/27	7	7	8	130	1570	7685	565	4057	14142	43366	114	832
	07/28	8	9	25	327	3989	23942	488	3307	23213	72584	918	4825
	07/29	11	16	85	1345	3444	21424	1219	7651	36811	126913	1314	7466
	07/30	10	10	60	1156	889	4863	1350	8107	29639	112830	888	5192
	07/31	14	14	171	1869	1106	6338	1468	9225	38197	122813	555	3338
	08/01	7	7	26	427	391	2284	321	1963	22327	66982	172	1082
	08/02	6	6	40	536	374	2072	577	3739	23098	68877	203	1190
	08/03	5	5	2	21	244	1532	195	1263	25662	78544	72	450
	08/04	6	7	31	349	489	2811	438	3211	22058	69343	172	1112
	08/05	*	*	4	99	356	2112	124	914	15482	48272	59	395
	08/06	*	*	5	110	376	1882	78	614	8069	26330	97	678
	08/07	*	*	1	9	439	2297	60	426	12478	37510	17	109
	08/08	*	*	4	54	570	3129	119	880	16652	49979	89	449
	08/09	8	8	14	232	1411	7590	326	2483	49445	160692	228	1490
	08/10	10	11	23	407	1599	8468	378	2670	53548	161472	259	1710
	08/11	9	9	6	115	595	3310	285	2074	16261	50909	83	546
	08/12	8	8	5	99	983	5234	277	1988	33400	93133	98	639
	08/13	5	5	0	0	284	1423	82	610	17184	50294	75	535
	08/14	4	4	0	0	63	320	109	835	7784	28425	42	224
	08/15	*	*	1	27	200	949	116	968	16759	58188	61	458
	08/16	*	*	0	0	506	2526	101	852	14540	51117	56	374
	08/17	*	*	1	10	158	794	42	339	2748	9164	18	126
	08/18	*	*	0	0	102	513	35	282	2547	9171	13	91
	08/19	4	4	0	0	253	1295	409	3197	17163	56961	60	360
	08/20	*	*	0	0	33	168	19	154	1332	3874	7	49
	TOTAL	95	412	2750	31759	129949	665058	13852	92404	704713	2203574	15958	91374
	AVG. WT.				11.55		5.12		6.67		3.13		5.73
25130	06/15	*	*	3	46	3378	15540	0	0	64	192	21	162
	06/16	*	*	1	11	3301	15590	0	0	29	92	34	191
	06/21	5	5	89	797	2344	10550	0	0	280	977	130	708
	06/22	5	7	12	169	2325	10414	0	0	180	694	86	420
	06/23	*	*	0	0	154	573	0	0	0	0	0	0
	07/06	*	*	0	0	100	520	0	0	40	140	0	0
	07/08	*	*	0	0	2099	9275	0	0	8671	22655	147	752
	07/09	4	4	10	140	3676	20327	2	15	1625	4520	86	491
	07/10	*	*	3	36	699	3495	76	457	2517	6293	30	212
	07/13	*	*	0	0	590	2963	0	0	4496	13049	32	147

-Continued-

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/14	*	*	0	0	328	2066	0	0	2494	7592	67	280
	07/16	*	*	0	0	251	1244	4	27	2482	7533	59	339
	07/18	*	*	3	20	425	2014	75	600	3325	8265	150	758
	07/31	*	*	3	62	723	4717	113	824	11207	32503	236	1273
	08/01	4	4	26	306	373	2071	253	1545	8901	27416	196	1170
	08/02	*	*	1	20	230	1637	80	364	15625	47428	38	147
	08/03	*	*	0	0	27	159	18	158	7300	19478	1	6
	08/04	4	4	0	0	140	839	99	770	11317	38296	62	385
	08/05	*	*	1	35	139	815	41	347	7440	24533	25	163
	08/10	*	*	0	0	93	487	31	191	3912	11970	13	81
	08/11	*	*	0	0	46	222	130	1003	4570	15063	7	48
	08/12	*	*	0	0	163	897	42	315	7905	27664	60	347
	08/13	*	*	0	0	32	178	11	109	4510	15731	12	72
	08/14	*	*	0	0	53	292	15	125	2800	9602	25	164
	08/15	*	*	0	0	51	282	30	297	3175	10803	0	0
	08/16	*	*	0	0	140	768	12	102	5378	18761	15	84
	08/17	*	*	0	0	4	22	2	17	1800	6353	0	0
	08/18	*	*	0	0	0	0	0	0	700	2413	1	7
	09/01	4	4	0	0	701	3457	382	2326	3015	9025	12	73
	09/02	*	*	1	21	190	985	60	404	0	0	0	0
	09/03	*	*	0	0	141	697	99	578	956	2869	5	44
	TOTAL	25	74	153	1663	22916	113096	1575	10574	126714	391910	1550	8524
	AVG. WT.				10.87		4.94		6.71		3.09		5.50
25140	06/22	*	*	5	96	830	3658	0	0	300	903	64	329
	06/24	*	*	1	10	214	830	0	0	67	205	1	6
	06/29	*	*	0	0	73	310	0	0	43	127	16	117
	07/09	*	*	0	0	1568	9157	0	0	1845	5399	80	453
	07/10	9	9	10	181	4128	22779	29	204	2398	6836	217	1256
	07/11	*	*	3	15	675	3315	15	63	530	1708	30	142
	07/17	*	*	0	0	609	3752	5	30	730	2228	52	298
	07/23	*	*	0	0	37	205	41	283	1009	3103	13	76
	07/27	*	*	1	21	1926	11796	44	294	17026	49377	280	1379
	07/28	*	*	0	0	866	4333	32	189	2946	9814	128	786
	07/29	*	*	6	98	965	6087	82	533	7501	21613	263	1501
	07/30	*	*	0	0	25	134	30	177	1846	6463	19	130
	08/05	*	*	0	0	81	452	19	140	6560	22701	38	220
	08/07	*	*	0	0	167	824	30	182	9043	27213	26	157
	09/03	*	*	0	0	380	2097	500	3067	0	0	10	100
	09/09	*	*	0	0	0	0	296	1853	0	0	0	0
	TOTAL	26	34	26	421	12544	69729	1123	7015	51844	157690	1237	6950
	AVG. WT.				16.19		5.56		6.25		3.04		5.62
25150	07/08	*	*	0	0	362	1958	0	0	226	724	26	150
	07/10	*	*	3	73	2308	12253	6	36	968	3005	100	582
	07/23	*	*	3	41	19	108	12	71	240	687	0	0

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/27	*	*	1	35	365	2115	34	211	5369	15242	63	293
	09/01	*	*	0	0	0	0	567	4590	105	332	0	0
	09/02	*	*	0	0	0	0	75	608	70	209	0	0
	TOTAL	8	10	7	149	3054	16434	694	5516	6978	20199	189	1025
	AVG. WT.				21.29		5.38		7.95		2.89		5.42
25160	09/02	*	*	0	0	0	0	602	4049	0	0	0	0
	09/03	*	*	0	0	0	0	438	3504	0	0	0	0
	09/04	*	*	0	0	0	0	400	2616	30	88	0	0
	09/07	*	*	0	0	0	0	220	1409	0	0	0	0
	09/16	*	*	0	0	0	0	428	2817	0	0	0	0
	TOTAL	4	5	0	0	0	0	2088	14395	30	88	0	0
	AVG. WT.				0.00		0.00		6.89		2.93		0.00
25170	09/03	*	*	0	0	3	15	1153	7355	35	106	0	0
	09/04	*	*	0	0	0	0	231	1447	0	0	0	0
	09/11	*	*	0	0	0	0	980	6658	0	0	0	0
	TOTAL	4	4	0	0	3	15	2364	15460	35	106	0	0
	AVG. WT.				0.00		5.00		6.54		3.03		0.00
25181	09/03	*	*	0	0	0	0	1461	10947	0	0	0	0
	09/08	*	*	0	0	0	0	345	2502	0	0	0	0
	09/11	*	*	0	0	0	0	33	211	0	0	0	0
	09/14	*	*	0	0	0	0	229	1434	0	0	0	0
	09/15	*	*	0	0	0	0	404	2526	0	0	0	0
	09/18	*	*	0	0	0	0	230	1436	0	0	0	0
	TOTAL	7	8	0	0	0	0	2702	19056	0	0	0	0
	AVG. WT.				0.00		0.00		7.05		0.00		0.00
25182	08/06	*	*	15	153	9	45	30	207	16603	44161	0	0
	08/07	*	*	0	0	0	0	7	70	11575	37040	5	40
	08/08	*	*	3	37	1	7	5	37	5577	20080	0	0
	08/09	*	*	3	44	5	40	17	93	11711	35966	0	0
	08/11	*	*	0	0	0	0	4	40	14450	45230	0	0
	08/12	*	*	0	0	7	36	9	45	14248	38043	1	5
	08/13	*	*	0	0	0	0	8	45	6450	20190	0	0
	08/17	*	*	0	0	5	27	15	100	8683	25007	3	15
	TOTAL	*	9	21	234	27	155	95	637	89297	265717	9	60
	AVG. WT.				11.14		5.74		6.71		2.98		6.67
25183	08/05	*	*	0	0	10	40	62	442	13942	43668	20	115
	08/06	*	*	1	10	30	145	180	1080	8982	27760	26	143
	08/09	*	*	2	30	0	0	11	70	16456	51510	0	0
	08/13	*	*	0	0	10	58	65	517	1659	5014	6	46
	08/14	*	*	0	0	5	44	53	423	7164	21495	1	7
	TOTAL	4	7	3	40	55	287	371	2532	48203	149447	53	311
	AVG. WT.				13.33		5.22		6.82		3.10		5.87

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs	
25210	06/22	*	*	67	674	1083	6236	40	318	426	1099	2606	18238	
	06/23	*	*	14	60	203	809	15	71	47	190	1004	4414	
	07/06	7	7	23	114	420	2364	497	2719	4013	12071	3711	15904	
	07/07	7	7	94	518	461	2331	532	2692	2952	7617	3506	11563	
	07/08	*	*	0	0	110	493	224	1565	843	2952	2520	7559	
	07/14	*	*	62	474	164	824	795	6022	5978	16142	1535	9314	
	07/15	7	8	37	356	1087	5573	1164	9227	11144	34254	2981	17047	
	07/16	*	*	20	199	272	1378	70	613	2444	6349	477	2701	
	07/17	*	*	5	54	98	481	214	1352	2120	6766	602	2901	
	07/20	*	*	5	18	17	91	30	204	303	919	10	58	
	07/30	*	*	0	0	16	84	49	399	5377	19359	44	308	
	07/31	*	*	0	0	42	259	59	481	13154	47357	67	475	
	08/02	6	7	16	204	190	1111	215	1559	67873	207993	285	1746	
	08/03	8	8	0	0	115	583	115	696	44611	148064	175	1022	
	08/04	10	11	2	41	138	661	150	1100	75456	222756	277	1462	
	08/05	8	8	0	0	69	399	123	1003	85365	229039	96	813	
	08/06	9	9	0	0	58	307	170	1110	62809	192187	131	903	
	08/07	10	10	2	22	159	818	285	1837	58674	187885	400	2334	
	08/08	10	10	1	8	252	1260	462	3281	73541	236943	373	2293	
	08/09	*	*	0	0	124	621	203	1126	40866	111938	164	1063	
	08/10	*	*	0	0	47	284	55	331	9117	27378	23	136	
	08/11	*	*	2	22	144	814	144	958	27775	86010	36	274	
	08/12	*	4	1	20	414	2261	367	2960	29418	90300	138	880	
	08/13	*	*	0	0	49	287	63	452	10916	29644	33	254	
	08/14	*	*	0	0	29	159	55	429	6274	18336	24	163	
	08/15	*	*	0	0	98	529	124	1061	18346	64209	29	199	
	08/16	4	4	0	0	137	681	197	1341	31559	99190	87	540	
08/17	*	*	0	0	3	17	19	152	3794	13660	2	14		
08/19	*	*	0	0	1	2	9	72	4323	12538	0	0		
TOTAL		36	124	351	2784	6000	31717	6445	45131	699518	2133145	21336	104578	
AVG. WT.					7.93		5.29		7.00		3.05		4.90	
25220	06/22	*	*	0	0	248	1142	0	0	165	498	15	114	
	07/17	*	*	0	0	27	103	3	14	2545	7215	2	10	
	08/04	*	*	0	0	3	18	0	0	1521	4869	0	0	
	08/05	4	4	1	7	5	25	6	40	13315	42614	7	40	
	08/06	*	*	0	0	11	43	18	130	19875	57638	15	83	
	08/08	*	*	5	86	46	259	79	619	17425	49504	82	400	
	08/09	*	*	0	0	11	59	0	0	6448	20186	0	0	
	08/10	*	*	0	0	18	93	12	78	30530	95910	0	0	
	08/12	*	*	0	0	2	12	5	27	659	2021	0	0	
	TOTAL		12	15	6	93	371	1754	123	908	92483	280455	121	647
	AVG. WT.					15.50		4.73		7.38		3.03		5.35
25230	07/05	*	*	0	0	0	0	0	0	4074	16284	2	14	
	07/08	*	*	7	69	320	1602	105	733	2293	5732	74	515	

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/14	7	8	9	66	785	4169	348	1826	4933	12301	287	1264
	07/15	5	5	5	37	395	1977	182	969	3744	8954	69	258
	07/16	*	*	0	0	71	390	40	215	487	1140	15	70
	07/17	*	4	0	0	161	824	89	418	1835	4568	16	75
	07/20	12	12	1	7	230	1049	88	476	43636	114184	61	278
	07/21	14	15	3	21	120	636	125	728	37509	95915	105	477
	07/22	7	7	0	0	94	544	69	396	20458	58465	56	283
	07/23	9	12	1	22	84	405	61	338	26905	72578	41	199
	07/24	5	5	0	0	25	127	17	94	10217	27034	21	92
	07/25	13	15	0	0	506	2696	44	289	37506	108396	81	489
	07/26	14	14	2	30	105	533	121	721	55520	146612	90	517
	07/27	12	12	1	16	716	4007	66	393	92032	237043	82	440
	07/28	22	25	0	0	138	621	114	704	165276	445493	89	482
	07/29	41	43	7	82	382	1859	549	3373	258565	728455	267	1594
	07/30	39	43	62	619	972	5328	632	3780	299150	822529	424	2777
	07/31	51	53	5	34	402	2106	317	2007	291500	806212	344	2239
	08/01	51	53	14	88	652	3314	394	2529	318727	912284	380	2165
	08/02	51	55	7	117	383	1862	373	2319	349721	977382	407	1983
	08/03	51	52	15	357	231	1296	280	1833	317547	970667	188	1110
	08/04	47	53	5	54	176	825	263	1749	301369	873582	134	759
	08/05	37	38	1	20	137	674	194	1197	199280	556023	101	540
	08/06	46	47	4	44	133	687	206	1264	245195	724460	82	500
	08/07	62	67	1	5	167	765	187	1227	331626	1004403	226	1263
	08/08	43	47	0	0	157	794	196	1165	278610	803962	130	655
	08/09	42	43	1	5	216	1031	290	1844	306921	896226	128	741
	08/10	43	46	0	0	231	1088	557	3681	289742	857279	180	981
	08/11	17	17	2	24	118	483	329	2084	93500	275291	38	205
	08/12	31	33	1	6	127	606	570	4012	181853	536188	103	569
	08/13	23	25	1	5	174	932	309	2193	127763	386370	119	728
	08/14	26	29	0	0	146	795	285	1981	181617	557529	89	526
	08/15	31	32	6	73	55	307	249	1704	184015	563055	62	343
	08/16	29	32	0	0	22	106	163	1063	108711	325997	22	114
	08/17	22	23	1	11	63	414	297	2139	107271	334537	73	459
	08/18	4	4	0	0	13	74	63	406	34461	106380	7	38
	08/20	6	8	0	0	4	21	67	426	11681	35539	0	0
	08/21	13	13	0	0	23	94	261	1777	58408	168069	19	108
	08/22	34	36	1	2	35	170	596	4392	123388	381739	19	121
	08/23	31	32	2	38	60	289	736	5239	164232	484168	28	127
	08/24	19	20	0	0	32	160	517	3807	98227	293195	24	147
	08/25	17	17	0	0	27	131	404	2662	111075	314529	28	144
	08/26	17	17	0	0	19	95	245	1786	46039	137549	17	95
	08/27	27	27	3	17	29	133	797	4960	103920	314148	23	106
	08/28	5	5	0	0	2	10	93	634	15514	47278	0	0
	08/29	10	10	1	20	16	82	376	2807	49095	144772	10	58
	08/30	9	9	0	0	45	226	517	3757	30016	89489	15	95
	08/31	*	*	0	0	0	0	20	60	317	951	0	0

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	09/01	7	7	0	0	4	15	487	3141	17379	52412	1	3
	09/02	*	*	0	0	39	174	194	1304	2453	8243	4	16
	TOTAL	184	1175	169	1889	9042	46526	13482	88602	6145313	17845591	4781	26762
	AVG. WT.				11.18		5.15		6.57		2.90		5.60
25231	06/21	*	*	9	93	144	722	0	0	101	254	26	183
	06/22	*	*	3	23	185	1003	0	0	40	127	5	23
	07/07	*	*	8	43	425	2282	49	276	1184	3085	88	436
	07/08	8	8	20	175	2570	14010	356	2051	11174	30624	282	1493
	07/09	4	4	7	103	734	3887	114	653	3726	9182	96	488
	07/10	5	5	6	43	1889	9260	511	2793	7594	18267	157	597
	07/11	*	*	13	159	1148	6580	138	865	4329	12464	523	3003
	07/13	*	*	0	0	44	217	42	207	792	2047	4	24
	07/14	4	4	8	107	1278	6505	357	2632	24678	61926	160	738
	07/15	5	5	28	220	389	1914	153	854	7497	18166	34	172
	07/16	14	16	11	109	2114	10773	762	4350	34836	100242	532	2820
	07/17	21	23	7	71	1706	8819	425	2417	35180	90648	214	1169
	07/18	*	*	0	0	512	2344	237	1064	7192	19043	61	343
	07/20	*	*	0	0	101	531	18	106	10592	26866	32	191
	07/21	18	18	17	154	814	4409	375	2373	105324	274530	304	1839
	07/22	19	19	9	147	583	3214	729	4261	60949	170977	176	1037
	07/23	14	14	2	29	456	2649	292	1742	37679	104502	151	802
	07/24	15	16	4	67	778	4553	247	1663	38011	110009	223	1285
	07/25	14	14	1	3	355	1712	253	1395	67977	193397	167	899
	07/26	19	21	0	0	507	2486	336	1908	112746	302551	346	1918
	07/27	11	12	3	38	157	701	79	483	72806	181483	41	247
	07/28	13	13	4	25	470	2303	152	845	60889	163667	156	943
	07/29	8	9	8	80	206	1103	92	651	66435	179313	157	1091
	07/30	12	12	11	150	367	1772	131	918	84648	246427	135	847
	07/31	15	15	3	23	200	1122	174	1144	111101	327642	159	973
	08/01	22	22	5	55	446	2318	227	1300	144162	433133	287	1489
	08/02	29	29	1	20	269	1412	249	1596	146489	437674	180	1073
	08/03	32	35	7	62	163	727	204	1436	225748	694584	149	774
	08/04	24	25	1	21	127	653	180	1223	160861	497323	122	730
	08/05	42	43	4	61	165	760	275	1834	251122	705383	193	986
	08/06	26	29	2	44	103	570	249	1510	182644	523760	168	1024
	08/07	23	23	1	30	83	388	132	811	149835	457284	70	406
	08/08	39	39	2	14	98	496	131	845	223148	692488	61	368
	08/09	30	30	1	6	106	515	164	948	221726	663331	64	322
	08/10	43	48	1	30	97	491	407	2636	280615	830630	75	444
	08/11	66	76	2	42	410	2079	1233	8569	509792	1500800	221	1359
	08/12	44	45	11	81	192	1032	685	4552	206182	596385	74	415
	08/13	40	41	1	9	271	1392	776	5409	269307	811252	160	926
	08/14	16	19	2	14	70	453	212	1622	150568	453461	38	263
	08/15	41	42	2	10	171	902	1165	8214	285690	899503	119	665
	08/16	48	49	3	33	143	690	687	4576	246943	757137	131	795

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/17	45	45	1	10	66	313	590	4102	181845	576334	53	330
	08/18	10	10	2	21	195	981	134	1093	50143	180643	15	116
	08/19	4	4	1	15	8	41	74	477	13685	39512	1	4
	08/20	16	16	0	0	227	1160	380	2739	41798	134233	21	133
	08/21	21	21	2	24	57	291	694	4854	103321	313861	31	191
	08/22	15	15	0	0	43	223	402	3073	54510	161603	14	83
	08/23	5	5	0	0	31	137	264	1535	21630	64613	42	209
	08/24	6	6	0	0	35	188	526	3414	41466	124789	4	25
	08/25	5	5	0	0	16	82	209	1364	34712	104376	2	8
	08/26	*	*	0	0	5	26	78	468	14864	44592	3	10
	08/27	*	*	0	0	5	25	91	813	20258	60110	9	54
	TOTAL	184	966	234	2464	21734	113216	16440	106664	5200544	15406233	6536	36763
	AVG. WT.				10.53		5.21		6.49		2.96		5.62
25232	07/22	*	*	0	0	21	162	36	202	4354	11756	13	56
	07/27	*	*	1	8	41	171	28	146	9292	23440	5	25
	07/29	*	*	0	0	10	40	0	0	5226	15432	0	0
	07/30	*	*	0	0	0	0	0	0	220	638	0	0
	07/31	*	*	1	4	10	61	1	7	12917	42006	6	29
	08/02	*	*	0	0	2	10	5	22	2659	7975	0	0
	08/03	*	*	0	0	2	8	15	83	5946	23822	3	18
	08/04	*	*	0	0	15	83	4	22	16264	46516	303	1512
	08/05	8	8	1	11	21	123	21	172	81162	185316	25	203
	08/06	*	*	0	0	7	22	4	26	7425	17820	0	0
	08/07	*	*	0	0	9	42	10	57	15897	55649	5	25
	08/11	4	4	0	0	10	62	57	302	38925	113200	0	0
	08/12	5	5	0	0	6	25	97	668	34892	96452	11	62
	08/13	6	6	0	0	15	70	20	119	18090	55883	6	39
	08/14	9	9	1	5	16	75	49	296	47873	146694	0	0
	08/15	*	*	0	0	1	4	5	35	13635	40903	1	7
	08/16	*	*	0	0	15	88	128	894	10520	31560	19	115
	08/18	*	*	0	0	0	0	17	108	10195	31913	0	0
	08/20	*	*	1	18	82	416	65	531	2142	6672	1	3
	08/21	11	12	0	0	18	75	148	1173	51113	154981	3	18
	08/22	13	13	0	0	11	57	98	711	24831	79108	0	0
	08/23	10	10	0	0	10	48	103	749	29876	96353	0	0
	08/24	29	33	1	17	39	214	301	2110	129579	395647	121	701
	08/25	6	7	0	0	9	42	118	752	40303	117702	6	22
	08/26	6	6	0	0	5	25	128	1017	17552	53886	0	0
	08/27	5	6	0	0	0	0	182	1494	17977	55868	1	8
	08/28	6	6	0	0	0	0	187	1443	22325	69930	0	0
	08/29	9	9	0	0	42	169	747	5357	48009	141816	28	131
	08/30	*	*	0	0	1	4	21	116	3305	9352	2	10
	TOTAL	93	158	6	63	418	2096	2595	18612	722504	2128290	559	2984
	AVG. WT.				10.50		5.01		7.17		2.95		5.34

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25233	06/30	*	*	0	0	15	57	0	0	33	104	1	4
	07/15	*	*	0	0	74	365	48	235	863	2271	5	27
	07/16	*	*	4	64	50	234	5	33	4835	12494	3	14
	07/17	*	*	5	70	182	941	25	155	8678	22348	32	162
	07/20	4	4	0	0	69	365	14	78	8352	23688	40	185
	07/21	8	9	1	9	261	1331	153	848	35132	109618	141	808
	07/22	12	13	3	36	215	1169	166	966	38898	107634	195	845
	07/23	8	8	5	56	107	586	51	328	26074	75598	83	391
	07/24	12	13	1	14	386	2211	115	855	48496	139236	123	889
	07/25	*	*	0	0	32	167	47	245	8394	32747	30	194
	07/29	*	*	0	0	5	23	0	0	2950	7383	4	19
	07/30	*	*	0	0	0	0	0	0	1500	4650	0	0
	08/02	*	*	1	7	17	32	25	191	4330	13899	18	136
	08/04	*	*	0	0	52	249	69	405	10454	28767	53	370
	08/09	*	*	0	0	0	0	0	0	578	1445	0	0
	08/14	8	8	0	0	65	377	135	922	36004	109309	15	84
	08/15	6	6	1	10	40	175	63	377	34288	98991	15	76
	08/16	6	6	0	0	14	91	36	228	15039	46444	8	43
	08/17	*	*	0	0	10	73	1	7	1000	3091	0	0
	08/18	*	4	0	0	9	48	70	466	25050	75137	9	42
	08/19	4	4	0	0	9	43	103	737	14585	43730	20	117
	08/20	*	*	0	0	5	26	22	129	5353	16068	0	0
	08/21	*	*	1	8	2	11	12	86	3947	11840	0	0
	08/28	*	*	0	0	1	5	0	0	2691	8074	1	8
	TOTAL	47	95	22	274	1620	8579	1160	7291	337524	994566	796	4414
	AVG. WT.				12.45		5.30		6.29		2.95		5.55
25234	06/14	*	*	0	0	344	1278	0	0	5	15	14	77
	06/15	*	*	0	0	104	360	0	0	0	0	0	0
	06/22	*	*	0	0	149	745	0	0	0	0	0	0
	06/23	*	*	1	15	171	687	0	0	9	21	0	0
	06/29	*	*	0	0	96	331	0	0	0	0	0	0
	06/30	*	*	6	29	45	223	0	0	40	111	30	170
	07/01	*	*	0	0	60	229	0	0	4	12	0	0
	07/02	*	*	0	0	349	1747	0	0	65	163	1	6
	07/11	*	*	4	54	513	2655	40	218	860	2239	31	167
	08/09	*	*	0	0	9	31	7	55	10296	36039	5	19
	08/20	*	*	0	0	8	26	232	1024	4135	12406	3	15
	TOTAL	12	13	11	98	1848	8312	279	1297	15414	51006	84	454
	AVG. WT.				8.91		4.50		4.65		3.31		5.40
25235	06/29	*	*	5	25	115	545	1	6	29	115	7	36
	06/30	*	*	31	315	754	3809	61	373	490	1500	130	560
	07/01	*	*	37	392	1350	6813	190	941	2268	6009	67	275
	07/02	*	*	49	470	1673	8540	25	132	2520	7412	300	2133
	07/03	4	4	44	310	5276	27959	409	2255	7584	19432	410	1951

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/07	*	*	4	37	3543	20514	47	251	2015	5261	306	1829
	07/10	*	*	4	69	1120	5491	101	761	2548	7901	60	347
	07/11	*	*	2	12	745	4019	0	0	2875	8512	100	303
	07/17	*	*	9	27	262	1381	107	623	6052	16116	75	375
	07/20	*	*	0	0	55	283	20	107	7392	18936	16	81
	07/21	4	4	0	0	163	907	83	432	6991	19050	35	161
	07/22	4	4	0	0	121	605	71	365	15242	37019	60	299
	07/23	*	*	0	0	20	98	21	129	4167	10221	11	46
	07/24	*	*	0	0	9	45	18	88	4400	10446	6	28
	08/04	*	*	0	0	80	350	47	260	9060	24924	26	136
	08/05	*	*	0	0	8	33	10	50	10241	29930	5	23
	08/07	*	*	0	0	1	4	0	0	6892	19939	0	0
	08/09	*	*	0	0	70	315	52	361	21584	62348	40	240
	08/13	*	*	2	43	16	66	67	409	12641	37796	27	135
	08/14	*	*	0	0	19	112	33	260	23853	71558	21	181
	08/16	*	*	0	0	2	10	24	145	5810	17430	5	15
	08/17	*	*	0	0	19	83	51	317	17750	53142	11	57
	08/20	*	*	0	0	3	10	70	436	8606	25683	6	38
	08/22	*	*	0	0	8	40	86	516	2964	8891	5	29
	TOTAL	28	45	187	1700	15432	82032	1594	9217	183974	519571	1729	9278
	AVG. WT.				9.09		5.32		5.78		2.82		5.37
25311	06/09	8	8	1	6	1896	8370	0	0	12	40	26	77
	06/10	18	19	54	578	7666	35129	7	86	51	156	587	3538
	06/11	*	*	1	4	301	1698	0	0	28	89	33	203
	06/15	*	4	25	205	2700	11261	0	0	90	253	61	310
	06/16	*	*	8	102	680	3063	0	0	14	37	73	404
	06/17	*	*	2	17	15	74	0	0	0	0	2	15
	06/18	*	*	6	103	353	1410	13	84	60	165	23	124
	06/19	4	4	6	50	1053	4589	0	0	222	694	65	490
	06/20	9	9	53	514	3316	12917	0	0	906	2704	780	3784
	06/21	*	*	4	91	682	2620	0	0	281	813	195	841
	06/22	4	4	10	88	707	2892	0	0	310	942	650	3436
	06/23	*	*	6	75	721	2963	0	0	486	1438	477	2349
	06/24	11	12	6	98	1025	3745	1	8	721	2095	1634	7610
	06/25	*	*	26	216	1467	6546	0	0	1132	3422	741	3358
	06/26	*	*	0	0	45	186	0	0	52	165	0	0
	06/27	*	*	0	0	221	1054	0	0	377	1574	86	663
	06/29	*	*	17	119	338	1380	0	0	444	1243	1248	6129
	06/30	*	*	8	97	268	904	0	0	370	1238	1238	5667
	07/01	*	*	17	136	358	1679	0	0	859	2714	675	3490
	07/02	*	*	0	0	30	184	1	5	46	138	5	38
	07/03	4	4	0	0	643	2727	2	15	1395	4394	88	553
	07/04	4	4	16	242	1233	6585	0	0	3306	12069	348	2144
	07/05	*	*	0	0	1064	5032	9	61	2400	8396	375	2122
	07/07	*	*	1	2	215	797	14	88	1611	4642	70	383

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/08	5	5	43	608	2540	13050	21	132	9024	26745	803	4166
	07/09	*	*	5	155	521	3241	17	101	4332	12998	290	1743
	07/10	5	5	21	281	2508	14451	83	533	3903	11543	331	1773
	07/13	*	*	0	0	170	904	0	0	899	3428	48	337
	07/14	*	*	5	67	1340	7885	37	288	5237	18858	229	1669
	07/15	5	5	17	156	3777	19896	81	488	8764	29436	567	3491
	07/16	6	6	9	80	1246	6330	47	276	13112	38120	259	1654
	07/17	12	12	1	2	1212	7001	53	341	11439	38523	139	870
	07/20	*	*	0	0	16	76	1	6	310	1226	1	10
	07/22	*	*	0	0	960	5066	45	293	6259	21774	73	426
	07/23	9	9	5	103	1457	8377	101	645	29138	99420	513	3276
	07/24	8	10	15	177	1682	9914	243	1584	42788	139845	511	3374
	07/25	*	*	0	0	156	800	34	215	8329	26070	131	770
	07/27	9	9	2	27	273	1357	145	940	12843	44054	167	1100
	07/28	11	12	10	90	1280	6546	372	2362	50888	185148	1047	6994
	07/29	10	11	23	580	1069	6198	417	3093	41569	132814	704	5154
	07/30	10	10	21	319	608	3236	768	6093	72854	214505	759	5761
	07/31	12	13	14	283	542	2852	542	3619	45236	144310	726	6303
	08/01	7	7	6	131	156	797	134	1007	12833	41585	127	812
	08/02	4	4	7	160	89	499	126	1010	17988	59363	200	1397
	08/03	4	6	2	44	186	1336	67	510	23821	81268	100	718
	08/04	*	*	1	38	185	950	4	38	9674	27795	220	1390
	08/07	*	*	0	0	29	142	0	0	5845	17539	67	433
	08/08	7	8	4	121	851	4060	138	957	56341	161760	166	1123
	08/09	10	11	10	176	1434	7347	228	1735	76180	239725	155	1097
	08/10	6	6	0	0	944	5097	193	1263	38734	113283	185	1273
	08/11	8	9	3	109	444	2109	50	464	18511	59400	72	468
	08/12	8	9	3	43	711	4067	130	999	37853	123359	164	1098
	08/13	9	10	1	23	703	3843	187	1264	64803	173403	87	590
	08/14	7	7	2	42	382	2225	83	741	27585	74256	89	679
	08/15	6	7	5	73	683	3850	335	2695	35280	94522	110	859
	08/16	10	10	12	263	2697	15008	1305	10818	104231	295618	206	1549
	08/17	8	9	8	91	2338	11990	571	3427	58437	182491	98	745
	08/18	9	9	1	24	1556	8305	270	2674	30268	96078	68	494
	08/19	13	13	0	0	2072	10449	359	2639	44469	136253	70	389
	08/20	7	7	0	0	884	4403	318	1942	16958	51831	60	379
	08/23	5	5	0	0	628	3137	35	241	42715	153280	49	311
	08/24	*	*	0	0	7	39	0	0	2475	8665	3	12
	09/02	*	*	0	0	73	418	36	372	2800	8962	21	189
	09/24	*	*	1	43	138	690	28	198	5171	15559	120	694
	TOTAL	105	363	524	7052	65544	325746	7651	56350	1115069	3454233	19215	113298
	AVG. WT.				13.46		4.97		7.37		3.10		5.90
25312	06/10	8	8	35	541	2651	14999	1	5	9	29	59	327
	07/27	4	4	6	31	46	265	4	21	14608	58673	492	3357
	07/28	*	*	0	0	26	112	47	235	13827	48714	257	1688

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/29	4	4	0	0	61	314	13	67	10632	37710	309	2315
	07/30	*	*	0	0	23	97	43	286	4790	16530	156	1274
	07/31	*	*	0	0	12	42	0	0	4333	15366	143	1048
	08/01	4	4	2	29	33	160	22	174	8911	27590	307	1846
	08/02	7	7	6	106	23	103	21	161	20391	63283	318	1864
	08/03	*	*	0	0	6	45	0	0	3300	10194	15	89
	08/04	*	*	0	0	8	34	0	0	7245	24242	39	349
	08/05	*	*	0	0	6	27	4	27	5654	19183	198	1313
	08/06	*	*	0	0	2	10	0	0	1123	4059	61	432
	08/09	*	*	0	0	100	603	12	110	4008	12962	0	0
	08/11	*	*	0	0	5	28	2	12	624	1873	6	42
	08/13	*	*	0	0	5	21	1	9	3151	10882	43	285
	08/14	*	*	0	0	55	279	10	86	12746	36964	93	658
	08/17	*	*	0	0	36	163	11	81	1806	6168	5	36
	08/18	*	*	0	0	0	0	1	8	2651	8880	18	131
	08/19	*	*	0	0	2	7	4	19	6195	17342	16	74
	08/20	*	*	0	0	0	0	0	0	791	2383	5	18
	08/21	*	*	0	0	41	211	0	0	12471	39092	16	83
	08/22	*	*	0	0	71	342	8	66	3894	16692	29	169
	08/23	4	4	0	0	302	1528	21	163	25868	86169	41	248
	08/24	14	14	0	0	19	98	22	141	37465	113974	41	260
	08/25	10	10	0	0	207	910	35	274	47828	152158	44	266
	08/26	12	13	0	0	566	3379	73	531	69811	222456	59	398
	08/27	5	5	0	0	152	834	27	184	21162	59349	21	129
	08/28	5	5	0	0	50	224	19	157	13935	43881	14	90
	08/29	5	5	0	0	214	1000	43	308	42750	135546	70	352
	08/30	*	*	0	0	88	453	16	106	10228	30684	18	118
	09/01	5	5	0	0	241	1220	51	285	22718	70216	25	140
	09/02	*	*	0	0	346	1671	126	882	11674	36574	15	79
	TOTAL	60	124	49	707	5397	29179	637	4398	446599	1429818	2933	19478
	AVG. WT.				14.43		5.41		6.90		3.20		6.64
25313	06/09	*	*	7	93	973	5452	0	0	0	0	22	119
	06/10	*	*	0	0	2	8	0	0	1	4	17	73
	07/27	*	*	0	0	21	119	0	0	1770	5599	81	718
	07/29	*	*	0	0	365	2410	70	520	4200	14720	130	770
	08/01	*	*	0	0	33	198	4	38	1738	5373	7	56
	08/12	*	*	0	0	78	388	10	69	3276	9829	20	141
	08/15	*	*	0	0	9	47	1	6	4560	17775	30	179
	08/17	*	*	0	0	8	41	1	8	1879	5636	5	32
	08/18	*	*	0	0	6	34	6	59	8585	27067	35	259
	08/19	*	*	0	0	4	24	4	30	9601	28722	36	211
	08/20	4	5	0	0	22	111	20	108	7559	26148	13	87
	08/21	4	5	0	0	376	2279	13	91	22142	77400	15	106
	08/22	4	4	1	18	130	645	16	117	28915	92769	53	338
	08/23	4	4	0	0	368	1840	18	117	26721	88717	52	307

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/24	5	5	0	0	26	151	3	20	29266	87798	20	111
	08/25	9	9	0	0	79	395	14	103	32753	98659	38	233
	08/26	8	8	1	5	729	3646	82	576	46519	140653	49	287
	08/27	10	11	0	0	311	1548	70	492	69919	213361	113	683
	08/28	7	9	0	0	238	1197	36	242	56493	169554	51	391
	08/29	5	5	0	0	156	792	25	179	31576	98968	37	229
	08/30	7	8	0	0	402	2033	71	525	42832	128500	39	198
	08/31	9	9	0	0	611	3085	120	844	36689	112158	39	229
	09/01	8	8	0	0	334	1684	68	485	48186	144555	32	193
	09/02	5	5	0	0	190	948	108	757	18448	55345	9	52
	TOTAL	38	111	9	116	5471	29075	760	5386	533628	1649310	943	6002
	AVG. WT.				12.89		5.31		7.09		3.09		6.36
25314	06/09	*	*	3	42	321	1701	0	0	0	0	12	59
	06/10	*	*	0	0	175	800	0	0	4	14	6	36
	06/23	*	*	1	12	174	873	0	0	84	216	57	405
	06/25	*	*	0	0	205	906	0	0	91	245	8	50
	07/06	*	*	4	40	16	88	0	0	16	72	3	16
	07/10	*	*	0	0	377	1824	0	0	150	643	5	30
	07/16	*	*	0	0	35	192	6	38	1200	3514	28	160
	07/21	*	*	24	284	1188	7059	16	85	2117	6640	112	872
	07/24	*	*	1	27	72	434	11	58	1945	5858	16	101
	07/25	*	*	0	0	161	969	0	0	5152	10303	51	307
	07/27	*	*	18	89	57	332	118	639	8071	27819	63	375
	07/28	4	4	2	46	126	629	23	142	17197	50120	125	821
	07/29	5	5	3	17	479	2603	39	228	18798	67461	192	1312
	07/30	*	*	0	0	285	1149	48	193	5248	15745	38	155
	07/31	*	*	1	26	39	240	32	205	5850	18740	63	350
	08/01	*	4	0	0	21	105	6	42	17624	55413	79	485
	08/02	*	*	1	12	1	4	0	0	9081	29109	20	106
	08/03	*	*	0	0	12	49	25	113	1900	7424	5	37
	08/06	*	*	0	0	1	5	0	0	1611	4832	3	22
	08/07	*	*	1	22	30	171	18	125	9157	27658	34	203
	08/08	*	*	0	0	9	45	0	0	2485	7717	0	0
	08/09	*	*	1	34	29	176	85	546	8449	26709	45	310
	08/12	*	*	13	128	107	622	287	1722	15236	45709	49	345
	08/13	*	*	0	0	31	168	22	197	3392	11870	3	21
	08/14	*	*	0	0	17	88	21	140	2382	7544	4	24
	08/16	*	*	0	0	57	346	3	18	870	3263	1	7
	08/17	*	*	0	0	28	162	13	79	1129	3959	8	51
	08/19	4	4	2	18	155	807	153	1107	18012	53476	22	137
	08/20	5	5	1	24	164	767	123	985	15877	46759	33	197
	08/23	*	*	0	0	0	0	1	7	1708	5129	3	14
	08/24	*	*	0	0	3	8	0	0	1548	4650	4	27
	08/26	*	*	0	0	4	28	3	26	8634	25902	7	49
	08/27	*	*	0	0	4	18	12	86	11801	35599	5	25

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/28	*	*	0	0	7	32	5	34	4724	14182	6	38
	09/02	*	*	0	0	50	244	1	3	4228	12684	2	16
	TOTAL	38	66	76	821	4440	23644	1071	6818	205771	636978	1112	7163
	AVG. WT.				10.80		5.33		6.37		3.10		6.44
25331	06/12	*	*	13	70	477	2060	0	0	153	395	93	430
	06/14	*	*	2	42	469	1841	0	0	4	10	1	4
	06/15	*	*	1	10	765	2924	0	0	31	116	1	6
	06/16	*	*	5	29	893	4102	0	0	30	119	19	138
	06/17	4	4	19	364	2199	9555	0	0	153	327	403	1943
	06/18	*	*	18	107	119	555	0	0	22	57	252	1356
	06/19	*	*	5	36	594	2781	21	83	66	153	1	5
	06/20	5	5	43	322	1178	5791	0	0	812	1899	472	2543
	06/22	*	*	50	515	571	2482	0	0	251	742	317	1730
	06/23	6	7	19	224	2505	11193	0	0	836	2419	909	4875
	06/24	4	4	16	123	564	2511	0	0	129	421	162	791
	06/25	*	*	4	40	176	830	0	0	183	503	23	105
	06/26	*	*	7	46	610	3031	4	30	67	195	105	528
	06/27	*	*	14	175	782	3979	6	39	522	1538	193	1040
	06/28	*	*	1	5	175	944	0	0	235	700	56	381
	06/29	*	*	0	0	297	1416	0	0	460	1460	40	217
	06/30	4	4	11	77	952	4351	3	16	1046	3223	485	2696
	07/01	5	5	104	907	2114	9717	23	144	1437	4627	1143	6520
	07/02	*	*	2	11	317	1482	0	0	299	858	163	895
	07/03	*	*	0	0	154	628	0	0	181	577	17	86
	07/04	6	7	19	300	3882	19803	24	124	2191	6328	525	3164
	07/05	6	6	28	351	5087	25423	4	26	3022	8992	558	2857
	07/06	6	6	15	257	2304	12799	14	104	1485	4022	281	1398
	07/07	13	13	28	446	8773	45801	29	178	3142	9219	535	3015
	07/08	11	11	37	597	7628	39042	69	348	3900	11585	666	2930
	07/09	4	4	27	391	1937	9665	141	785	3242	10069	159	973
	07/10	13	16	67	1068	6833	38994	184	1224	8426	27883	652	3941
	07/11	*	*	11	131	122	721	44	228	497	1375	100	327
	07/13	16	16	77	811	4580	27077	341	2205	6560	19525	800	3512
	07/14	31	32	150	1232	11531	67606	564	3581	19089	57093	1141	7335
	07/15	11	11	18	270	3226	17976	107	791	4029	12057	244	1591
	07/16	13	14	76	1132	4595	27969	303	1944	10348	31434	570	3590
	07/17	21	22	63	1083	3788	21716	526	3499	13419	41855	641	3776
	07/18	4	4	5	32	442	2570	117	786	8417	24491	152	796
	07/20	5	5	6	105	347	1905	46	483	2625	8492	69	436
	07/21	*	*	2	21	195	1037	51	326	1857	5994	6	47
	07/22	4	4	10	129	434	2616	277	1673	6043	19017	161	916
	07/23	8	9	50	814	2949	16229	930	5717	25449	76983	717	4292
	07/24	9	9	60	946	2209	13763	761	4824	20381	54923	550	3457
	07/25	*	*	36	353	1780	9751	284	1833	7822	25008	394	2506

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/27	5	5	9	152	983	5200	367	2272	25996	93575	990	6749
	07/28	11	13	26	375	2811	15548	504	3131	65849	232199	1616	9849
	07/29	15	15	24	323	4384	25410	1259	8083	55438	179092	2492	15940
	07/30	15	16	19	421	1760	10239	801	5952	42928	127079	1126	7614
	07/31	5	5	13	211	266	1449	465	2722	12504	39499	230	1400
	08/01	12	12	56	887	1734	8794	1225	8452	71266	198411	1102	6622
	08/02	5	5	8	185	90	486	237	1580	14872	43774	109	685
	08/03	5	5	8	182	86	468	259	1769	14010	38795	118	713
	08/04	6	7	25	529	581	3123	338	2382	26089	86486	382	2330
	08/05	5	5	23	281	701	3488	514	3428	18632	51571	272	1743
	08/06	*	*	0	0	9	36	0	0	123	334	1	7
	08/07	*	*	0	0	33	170	4	30	1000	3700	13	90
	08/08	4	4	13	222	310	2018	207	1585	16641	54925	49	343
	08/09	4	4	10	201	326	1459	538	4509	20230	58952	63	490
	08/10	*	*	0	0	60	300	11	88	2590	9070	5	25
	08/11	*	4	52	1106	226	1139	941	8060	33522	96225	186	1406
	08/12	*	*	0	0	13	53	2	10	6600	20000	22	51
	08/13	*	*	0	0	115	689	42	285	10529	32472	48	322
	08/14	*	*	5	75	94	440	170	1428	14604	41796	78	516
	08/15	*	*	2	37	199	1002	54	422	5019	16698	16	102
	08/16	*	*	2	60	411	2910	412	2879	17075	62760	76	493
	08/17	*	*	0	0	10	60	9	75	5757	17271	10	81
	08/19	*	*	7	82	65	332	223	1523	4664	14412	0	0
	08/20	6	6	17	285	322	1670	419	3855	15411	46525	38	256
	TOTAL	130	370	1438	19186	104142	561119	13874	95511	660210	2042305	22818	134975
	AVG. WT.				13.34		5.39		6.88		3.09		5.92
25332	07/24	*	*	0	0	2	11	0	0	624	2029	2	15
	07/27	*	*	1	16	3	12	0	0	2970	9784	9	53
	08/09	*	*	0	0	7	35	0	0	2805	8436	5	30
	08/24	*	*	0	0	0	0	0	0	4797	14392	0	0
	08/26	*	*	0	0	0	0	60	420	7678	23036	0	0
	08/28	*	*	0	0	9	41	14	87	12204	36612	13	78
	TOTAL	8	8	1	16	21	99	74	507	31078	94289	29	176
	AVG. WT.				16.00		4.71		6.85		3.03		6.07
25333	07/06	*	*	2	22	141	736	0	0	1901	6674	17	111
	07/08	*	*	2	43	236	1373	16	96	12374	37126	128	682
	07/10	*	*	0	0	45	258	1	6	2165	7842	22	115
	07/15	*	*	2	31	173	878	5	42	3346	13238	14	97
	07/16	*	*	0	0	5	23	0	0	1550	4998	13	93
	07/20	5	5	0	0	20	106	0	0	20417	77829	109	776
	07/21	7	7	0	0	24	120	0	0	40846	140228	138	950
	07/22	7	7	1	20	17	76	6	36	47077	146569	146	974
	07/23	13	14	2	12	104	560	54	268	61636	211472	177	1249
	07/24	10	10	1	16	46	194	31	136	34239	118915	137	984

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/25	*	*	0	0	10	24	0	0	8517	29683	33	230
	07/27	19	19	9	171	347	1767	99	615	63078	218082	440	2850
	07/28	14	15	1	28	95	518	17	91	49685	161329	197	1270
	07/29	10	12	0	0	325	1793	90	599	23646	86267	179	1090
	07/30	7	7	0	0	111	994	11	71	27118	87991	80	516
	07/31	4	6	0	0	18	80	4	31	22141	69987	54	345
	08/02	*	*	0	0	1	5	1	8	3512	12295	8	57
	08/04	*	*	0	0	3	12	0	0	4145	12758	10	80
	08/05	*	*	0	0	2	12	0	0	5775	17458	15	116
	08/06	*	*	0	0	6	32	0	0	5030	15371	4	26
	08/07	4	4	0	0	20	121	0	0	17598	61757	38	276
	08/08	*	*	0	0	0	0	0	0	12715	43233	89	623
	08/11	*	*	0	0	3	9	1	13	540	1612	1	3
	08/13	*	*	0	0	5	23	1	6	7403	25075	5	36
	08/17	*	*	0	0	28	135	33	222	12575	37610	11	80
	08/18	*	*	0	0	0	0	2	11	1114	3342	4	25
	08/19	*	*	0	0	3	10	4	38	3888	12296	1	5
	08/20	*	*	0	0	2	11	0	0	3450	11413	4	25
	08/21	4	5	0	0	14	53	10	68	28288	86435	21	150
	08/22	4	4	0	0	10	48	1	5	9771	29567	8	43
	08/23	*	*	0	0	0	0	0	0	10191	27471	0	0
	08/24	*	*	0	0	1	6	0	0	3800	12633	4	24
	08/25	*	*	0	0	4	22	2	13	11689	40914	6	36
	08/26	*	*	0	0	8	55	5	45	16250	54164	11	72
	08/27	*	*	0	0	2	3	1	9	12256	35657	1	5
	08/28	9	10	0	0	41	174	46	317	45122	136866	52	331
	08/29	7	7	1	32	25	132	40	333	21846	65714	25	164
	08/30	8	9	0	0	32	173	90	626	44592	137231	34	221
	08/31	*	*	0	0	26	99	17	135	7800	25925	5	30
	09/01	*	*	0	0	6	34	12	82	4164	12753	4	26
	09/02	4	4	0	0	52	196	50	290	12102	36413	14	88
	09/03	*	*	0	0	38	199	24	157	7669	24009	3	8
	TOTAL	65	183	21	375	2049	11064	674	4369	733021	2398202	2262	14882
	AVG. WT.				17.86		5.40		6.48		3.27		6.58
25335	06/18	*	*	4	25	390	1532	0	0	43	145	54	245
	06/22	*	*	0	0	162	823	0	0	55	159	45	242
	06/23	*	*	0	0	41	190	0	0	7	20	1	5
	06/24	7	7	21	116	2371	10541	0	0	888	2278	283	1437
	06/25	4	4	0	0	448	2212	0	0	310	910	54	337
	06/26	*	*	3	19	67	341	0	0	46	157	33	201
	06/28	*	*	8	52	170	788	0	0	109	310	256	1428
	06/29	*	*	3	62	668	3128	0	0	420	1272	281	1580
	06/30	*	*	55	428	645	3219	0	0	232	667	232	1344
	07/01	*	*	4	58	1089	5510	8	41	648	2000	217	1183
	07/02	*	*	0	0	112	505	2	16	85	234	10	61

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/05	4	4	2	30	220	1151	1	4	404	1190	59	302
	07/07	4	4	2	20	1950	11244	28	165	1327	3825	85	495
	07/08	6	6	0	0	2697	15802	62	341	2546	7554	78	458
	07/09	18	19	16	315	12485	72683	139	794	8574	24984	501	2646
	07/10	29	30	61	522	11782	67524	242	1336	12039	35310	646	3198
	07/11	*	*	3	55	359	2338	0	0	448	1390	9	54
	07/13	9	9	0	0	1985	11417	32	171	2707	7024	49	294
	07/14	13	13	1	6	3594	21405	63	355	5125	13742	182	1229
	07/15	27	27	24	315	9478	54630	209	1217	12211	35771	708	3866
	07/16	32	33	57	811	9421	56736	385	2542	19370	57767	800	4960
	07/17	33	34	14	261	6549	39506	596	2808	14693	43332	499	2772
	07/18	*	*	0	0	319	1878	11	90	1152	3642	7	42
	07/20	5	5	0	0	923	5356	44	262	2898	8446	82	422
	07/21	*	*	0	0	122	703	21	132	1173	3383	14	83
	07/22	6	6	4	67	449	2293	106	582	14767	49080	126	749
	07/23	*	*	0	0	167	1041	35	196	2508	7674	31	168
	07/24	4	4	21	301	1000	5705	230	1929	11472	33389	427	2552
	07/25	*	*	0	0	527	2731	78	471	1978	6216	83	473
	07/28	*	*	0	0	159	901	6	50	1632	4687	60	287
	07/29	*	*	2	37	1483	8540	186	965	7112	22602	375	1871
	07/30	6	6	5	77	646	3513	117	789	7869	23820	301	1899
	07/31	6	6	7	249	133	713	262	1327	8465	34309	169	982
	08/01	*	*	0	0	110	660	0	0	2000	5800	0	0
	08/07	*	*	0	0	0	0	0	0	4419	13257	7	43
	08/12	*	*	0	0	75	347	21	160	6597	19192	24	128
	08/16	*	*	0	0	48	243	6	53	1303	4304	4	28
	08/17	*	*	0	0	50	282	14	103	2819	10079	8	47
	08/19	*	*	0	0	4	21	3	16	200	660	3	23
	TOTAL	89	255	317	3826	72898	418152	2907	16915	160651	490581	6803	38134
	AVG. WT.				12.07		5.74		5.82		3.05		5.61
25410	06/09	15	15	59	996	2323	11133	0	0	1	4	108	569
	06/10	14	14	68	890	3591	16346	0	0	61	195	701	3638
	06/14	5	5	13	133	2570	10947	0	0	14	50	159	904
	06/15	4	4	10	215	1529	6342	1	7	1	4	28	158
	06/16	7	7	11	156	1406	6271	0	0	4	12	109	587
	06/17	*	*	1	10	382	1621	0	0	3	12	15	68
	06/18	*	*	12	219	362	1610	0	0	2	7	44	258
	06/19	10	10	83	873	1447	6244	0	0	72	180	237	1146
	06/20	*	*	10	92	261	1100	0	0	132	403	34	190
	06/21	5	5	38	511	1486	7175	0	0	178	508	159	1058
	06/22	*	*	27	185	1269	5352	25	143	195	597	170	715
	06/23	6	6	39	332	1254	5467	0	0	263	977	133	876
	06/24	9	9	44	356	1206	5382	1	6	130	408	153	726
	06/25	4	4	6	57	622	2822	0	0	62	189	63	354
	06/26	5	5	5	28	317	1539	0	0	72	274	98	507

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/27	*	*	10	230	3312	13844	0	0	263	636	276	1877
	06/28	5	5	16	182	3589	17901	0	0	349	1036	341	2193
	06/29	19	20	88	1089	7401	33580	11	96	4575	13509	957	5425
	06/30	22	24	54	708	5169	23060	7	90	5830	18006	1658	9721
	07/01	5	5	10	116	423	2061	0	0	317	1174	64	349
	07/02	5	5	16	161	290	1450	0	0	313	888	38	197
	07/03	14	14	83	867	5365	26581	4	34	3509	11476	430	2265
	07/04	12	12	84	687	3403	16171	1	8	3769	11537	453	2408
	07/05	10	11	14	177	5920	30797	51	304	4983	15101	734	3216
	07/06	7	7	1	20	1135	5679	0	0	2160	7133	62	373
	07/07	*	*	0	0	261	1435	0	0	771	2505	20	115
	07/08	*	*	9	112	166	920	5	32	1709	5900	134	858
	07/09	4	4	8	75	278	1440	8	42	1033	3326	49	301
	07/10	5	5	9	90	894	4314	57	363	2821	9149	105	639
	07/13	*	*	6	49	292	1694	40	262	4896	16824	63	399
	07/14	4	4	7	100	1090	6715	9	50	9496	32064	206	1215
	07/15	*	*	0	0	1838	11586	14	97	4203	17153	53	392
	07/16	4	4	0	0	1239	7094	4	27	2917	9967	47	324
	07/17	4	4	3	22	604	3599	2	12	2387	8960	23	157
	07/20	*	*	0	0	13	68	12	86	380	1409	3	30
	07/21	*	*	6	100	53	300	7	47	10594	37093	64	339
	07/23	6	7	2	49	835	4391	63	392	12561	44872	166	877
	07/24	8	8	4	53	2294	12333	96	584	18972	58367	363	2369
	07/25	*	*	1	11	740	4373	22	128	10660	31010	180	1089
	07/27	9	9	4	103	671	3503	139	1016	29361	93623	206	1040
	07/28	15	16	7	57	1726	8304	563	2943	53641	198807	949	5419
	07/29	15	15	7	70	1301	7120	241	1549	36517	132335	470	2771
	07/30	17	17	10	175	947	5044	389	2390	28378	114449	521	3191
	07/31	6	6	8	79	380	1595	285	2021	18583	57866	240	1419
	08/01	6	7	4	47	628	3353	297	2273	23114	81870	212	1215
	08/02	7	7	4	80	411	1736	238	1167	22191	70369	119	599
	08/03	6	6	1	20	368	1819	154	1014	14894	47780	97	599
	08/04	8	8	4	62	394	2371	134	959	27882	90898	241	1427
	08/05	9	10	8	93	1559	8217	190	1180	40924	136626	370	2384
	08/06	7	7	1	26	363	2021	63	419	32785	101713	98	660
	08/07	12	13	6	149	1424	7491	219	1489	69868	226931	342	2274
	08/08	8	9	1	14	515	2785	111	760	45391	139553	109	633
	08/09	10	11	14	294	1212	7255	393	2740	57851	183192	171	1151
	08/10	16	16	6	110	1572	8855	220	1526	62596	226043	202	1399
	08/11	5	5	8	236	511	2961	99	612	23996	75911	87	620
	08/12	5	5	0	0	30	162	39	238	17311	55061	21	125
	08/13	5	5	3	31	184	951	125	919	6534	21160	28	177
	08/14	5	5	0	0	118	709	37	292	8005	26616	8	58
	08/15	5	5	12	200	1846	10832	824	5824	12051	43231	63	402
	08/16	6	6	3	45	1171	6509	204	1556	10265	38422	39	253
	08/17	8	9	1	18	1260	7000	122	998	16338	54596	25	162

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/18	8	10	3	76	1761	9431	692	4736	12653	40929	56	354
	08/19	4	4	4	107	1659	8282	866	6294	9356	31004	963	4830
	08/20	*	*	0	0	33	172	5	32	410	1369	0	0
	TOTAL	110	462	976	12043	88673	439215	7089	47757	791553	2653269	14337	82044
	AVG. WT.				12.34		4.95		6.74		3.35		5.72
25420	06/09	*	*	0	0	593	2579	0	0	8	27	5	27
	06/15	*	*	2	17	25	117	0	0	2	7	0	0
	06/17	*	*	0	0	11	44	0	0	2	5	1	15
	06/18	*	*	0	0	18	81	0	0	1	4	0	0
	06/19	*	*	16	296	112	530	0	0	36	142	22	119
	06/24	4	4	5	27	130	612	0	0	51	159	60	278
	06/26	*	*	0	0	150	650	0	0	10	35	11	71
	06/30	*	*	0	0	102	370	0	0	58	165	11	40
	07/01	*	*	0	0	51	192	0	0	684	2177	20	123
	07/02	*	*	1	4	20	69	0	0	40	125	3	15
	07/03	*	*	0	0	139	575	0	0	1643	5048	26	147
	07/05	*	*	0	0	101	537	0	0	7068	21691	86	612
	07/06	*	*	0	0	170	811	0	0	3232	9556	53	335
	07/07	*	*	0	0	40	220	0	0	934	2870	14	80
	07/08	*	*	0	0	3	12	0	0	1085	3447	11	65
	07/09	*	*	2	12	37	168	0	0	3193	10218	1	8
	07/10	4	5	2	19	164	776	1	8	10544	34947	92	662
	07/13	11	11	0	0	744	3827	5	41	17743	59934	121	903
	07/14	8	8	0	0	297	1898	6	39	9041	31364	81	570
	07/16	6	6	0	0	112	626	1	7	9591	31476	74	478
	07/17	11	11	1	18	174	915	4	28	11700	38714	37	327
	07/20	12	12	2	28	141	881	5	34	13106	46013	38	247
	07/21	10	10	4	41	53	301	1	6	17074	60404	73	576
	07/22	10	10	6	75	4230	14389	1	6	11357	39997	62	425
	07/23	7	7	9	134	396	2302	25	186	18017	65162	225	1751
	07/24	9	9	0	0	572	3379	27	165	17039	58143	145	810
	07/26	*	*	0	0	2	14	3	14	600	2065	3	20
	07/27	10	10	0	0	93	562	27	141	47578	170877	131	771
	07/28	14	14	1	2	499	2399	46	276	48161	159561	279	1608
	07/29	12	14	0	0	162	779	23	165	37246	126580	167	1129
	07/30	10	10	0	0	2479	8000	58	404	32614	103806	77	490
	07/31	9	9	0	0	54	239	39	248	40387	125430	88	573
	08/01	9	9	0	0	30	120	7	51	39449	124853	72	461
	08/02	10	10	0	0	30	142	36	304	33342	101720	78	475
	08/03	13	13	3	96	35	174	36	267	39233	123875	89	529
	08/04	12	12	0	0	50	222	22	162	57999	181879	128	779
	08/05	13	13	2	22	160	844	20	132	58903	191287	138	831
	08/06	11	11	0	0	23	136	16	93	62747	203829	108	691
	08/07	8	8	0	0	266	1341	30	201	37011	124590	91	574
	08/08	13	13	4	95	456	2358	50	345	66708	212742	157	960

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/09	15	16	0	0	340	1546	28	223	61845	195064	44	254
	08/10	11	12	0	0	155	749	16	104	36047	114153	47	312
	08/11	17	17	0	0	244	1153	23	174	52936	166424	49	314
	08/12	17	17	0	0	813	2794	92	675	45225	143446	68	416
	08/13	12	12	0	0	36	142	16	134	31259	99198	43	273
	08/14	15	19	2	24	48	294	24	210	42563	137461	29	189
	08/15	12	12	2	14	18	92	28	199	29179	96437	15	93
	08/16	14	14	1	8	69	301	29	201	56486	186173	58	339
	08/17	10	10	0	0	48	228	10	83	27107	87436	34	218
	08/18	4	4	0	0	51	264	11	98	6248	20692	2	10
	08/19	17	18	0	0	142	755	155	1133	121430	381648	76	428
	08/20	15	15	0	0	251	1205	55	430	58310	195528	60	306
	08/21	15	15	0	0	105	595	19	144	39734	125629	41	228
	08/22	21	21	0	0	160	835	40	269	33893	105753	51	305
	08/23	17	17	2	12	57	274	17	128	25029	76665	25	153
	08/24	7	7	0	0	0	0	1	10	2987	9312	2	16
	08/25	*	*	0	0	1	6	2	19	3406	10662	2	16
	08/26	5	5	0	0	12	74	18	147	21499	70308	33	194
	08/27	5	5	0	0	0	0	0	0	15151	50125	2	16
	08/28	5	5	0	0	5	32	16	119	33711	107286	27	181
	08/29	6	6	6	140	6	33	147	1213	11670	39019	23	120
	08/30	*	*	0	0	0	0	19	175	4244	13646	10	57
	09/01	*	*	0	0	0	0	5	90	3404	10988	13	59
	09/02	*	*	0	0	8	28	15	120	4044	12550	12	62
	TOTAL	42	518	73	1084	15493	65591	1275	9421	1522644	4930527	3644	23134
	AVG. WT.				14.85		4.23		7.39		3.24		6.35
25430	06/23	*	*	0	0	2	10	0	0	101	359	2	11
	06/28	*	*	51	515	8	38	0	0	145	464	52	359
	06/30	*	*	0	0	0	0	0	0	431	1356	266	1556
	07/01	4	4	129	1184	30	117	0	0	1849	6088	271	2569
	07/02	6	6	343	3333	169	718	0	0	5203	16968	276	1720
	07/03	*	*	1	6	52	275	0	0	358	1220	54	285
	07/04	*	*	124	1086	75	352	0	0	615	2441	75	597
	07/05	*	*	5	47	1	6	0	0	755	3311	74	765
	07/06	*	*	30	402	110	549	0	0	3331	11203	174	1122
	07/08	*	*	20	166	1	9	0	0	1790	6258	174	1202
	07/10	*	*	0	0	1	4	0	0	4040	13332	124	782
	07/15	*	*	0	0	4	18	0	0	3889	12878	47	311
	07/16	8	8	12	132	200	1134	7	37	9543	33832	91	525
	07/17	4	4	1	35	7	53	1	9	3913	14116	26	172
	07/20	*	*	0	0	3	20	4	30	3465	12595	25	191
	07/21	6	6	8	160	13	63	0	0	13233	50257	46	295
	07/22	9	10	25	343	42	231	2	17	18722	71174	367	2791
	07/23	7	7	16	208	43	262	3	21	15958	60317	188	1362
	07/24	4	4	1	10	23	131	13	100	8150	29283	83	522

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/25	*	*	1	20	8	50	7	45	3700	13130	7	44
	07/27	6	6	2	33	10	57	6	41	26789	89237	79	494
	07/28	8	8	3	45	15	83	44	363	42888	138381	213	1301
	07/29	*	4	4	108	24	134	47	356	16099	55066	71	522
	07/30	6	6	2	41	37	222	101	841	25579	83594	166	1130
	07/31	4	4	0	0	6	32	22	172	9745	32856	45	271
	08/01	4	6	0	0	38	177	22	206	20725	67828	91	566
	08/02	5	6	0	0	6	41	62	431	16458	53947	67	419
	08/03	4	4	0	0	9	34	18	115	12808	44697	59	336
	08/04	*	*	1	9	8	33	20	136	8674	28628	22	122
	08/05	*	*	0	0	1	2	1	9	4451	14027	9	55
	08/10	*	*	0	0	7	39	0	0	3037	9608	11	55
	08/11	*	*	0	0	8	33	52	399	14452	44803	11	58
	08/13	*	*	0	0	3	8	7	55	963	3084	2	10
	08/14	*	*	0	0	0	0	8	59	1620	5218	8	50
	08/16	*	*	0	0	9	29	12	67	2815	8640	6	37
	08/17	*	*	0	0	15	64	20	141	3675	12230	2	11
	08/19	*	*	0	0	46	234	47	362	5387	20038	12	88
	08/20	*	*	0	0	48	240	31	219	194	971	3	16
	08/31	*	*	0	0	6	29	36	347	1657	5312	2	10
	09/01	*	*	0	0	26	126	38	342	92	296	1	4
	TOTAL	31	133	779	7883	1114	5657	631	4920	317299	1079043	3302	22736
	AVG. WT.				10.12		5.08		7.80		3.40		6.89
25440	06/09	*	*	0	0	108	551	0	0	5	14	5	24
	06/10	*	*	0	0	1708	7350	0	0	6	16	8	43
	06/24	5	5	18	145	491	2029	0	0	372	1134	120	728
	06/26	*	*	2	25	50	199	0	0	53	139	13	55
	06/29	*	*	4	36	96	415	2	13	131	376	20	106
	06/30	*	*	11	77	100	420	0	0	132	388	27	206
	07/01	*	*	3	29	70	293	0	0	122	357	19	141
	07/02	*	*	4	28	119	555	2	19	312	1044	19	98
	07/03	*	*	0	0	84	400	0	0	302	950	15	109
	07/04	*	*	3	28	342	1741	0	0	703	2459	36	209
	07/05	4	4	31	334	489	2787	1	7	1153	4133	132	629
	07/06	6	6	15	179	1775	8602	3	16	1354	4177	87	460
	07/07	11	11	19	231	888	5270	3	20	3707	11292	242	1701
	07/08	9	9	31	337	979	5619	5	32	2244	7083	219	1187
	07/09	6	6	17	162	276	1504	4	21	1196	3650	42	247
	07/10	5	5	10	152	588	2916	16	108	4094	13008	63	401
	07/13	*	*	13	175	411	2140	65	493	1290	4051	34	187
	07/14	10	10	3	25	6129	38129	39	246	14893	50767	142	912
	07/15	9	9	5	72	5755	34891	40	281	7825	23499	83	531
	07/16	*	*	0	0	109	657	11	63	712	2251	15	94
	07/17	5	5	7	70	858	4369	33	255	2791	8177	67	476
	07/20	*	*	0	0	12	69	4	30	4175	13471	10	65

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/21	*	*	0	0	12	64	0	0	3179	10913	6	38
	07/22	*	*	6	160	121	630	0	0	9855	34500	50	310
	07/23	4	4	1	6	300	1809	12	74	13784	45049	60	429
	07/24	7	7	0	0	256	1466	8	46	10218	34542	50	291
	07/27	*	*	0	0	82	527	21	168	5040	17039	57	352
	07/28	*	*	0	0	23	135	0	0	4430	15053	11	78
	07/29	*	*	4	85	20	120	0	0	19600	38220	50	330
	07/31	*	*	6	91	121	543	189	1319	12927	49381	156	874
	08/02	*	*	4	70	86	424	95	651	16745	66981	171	1001
	08/03	*	*	1	34	115	641	32	279	18305	56915	52	425
	08/04	*	*	0	0	50	284	5	35	1025	3295	9	62
	08/05	*	*	1	41	548	3185	80	491	18818	62113	79	476
	08/06	6	6	0	0	515	2224	37	273	28283	93371	78	512
	08/07	*	*	0	0	215	1446	2	12	8150	22516	20	121
	08/08	7	7	2	50	386	2084	58	449	41164	133762	95	599
	08/09	*	*	0	0	26	146	57	476	6135	19826	12	83
	08/10	4	4	0	0	510	2517	49	414	21397	68386	54	342
	08/11	*	*	0	0	205	1013	18	134	9455	30540	18	155
	08/12	*	*	0	0	98	479	31	225	7100	23722	11	45
	08/13	*	*	2	27	210	1075	196	1743	9806	36043	23	188
	08/14	*	*	0	0	50	240	25	216	1165	3928	1	5
	08/15	*	*	0	0	60	292	20	174	1725	5732	1	6
	08/16	*	*	0	0	115	600	15	136	3620	12462	4	13
	08/17	4	4	1	42	1326	7626	132	951	22611	74934	34	250
	08/18	4	4	0	0	387	2165	25	157	7822	24455	17	106
	08/19	6	6	1	23	419	2293	111	874	10287	32245	19	108
	08/20	5	5	5	50	1347	7838	90	793	22034	68133	33	216
	08/21	*	*	0	0	146	930	9	76	1100	4481	4	27
	TOTAL	53	174	230	2784	29186	163702	1545	11770	383352	1240973	2593	16051
	AVG. WT.				12.10		5.61		7.62		3.24		6.19
25510	06/09	*	*	0	0	325	1554	0	0	0	0	8	51
	06/10	13	13	137	2442	5739	26690	0	0	37	115	87	540
	06/11	*	*	0	0	103	420	0	0	0	0	0	0
	06/13	*	*	18	279	328	1513	0	0	0	0	62	321
	06/14	23	23	136	2289	13762	61091	0	0	25	72	198	1182
	06/15	7	7	40	735	1334	5671	0	0	5	14	155	802
	06/16	*	*	0	0	475	2161	0	0	0	0	15	76
	06/18	*	*	5	70	212	988	0	0	0	0	45	212
	06/19	10	10	100	1462	4197	17879	0	0	88	223	508	2599
	06/20	8	8	18	214	2371	10397	0	0	55	167	134	691
	06/21	10	10	138	2037	6249	28996	0	0	83	256	392	2396
	06/22	12	15	114	1221	6853	32564	0	0	247	739	301	1642
	06/23	11	12	77	1243	5836	24385	0	0	384	835	479	2297
	06/24	5	5	13	215	569	2417	0	0	8	32	13	70
	06/25	9	9	66	983	2008	8930	0	0	70	218	132	592

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/26	*	*	2	17	89	358	0	0	10	34	6	34
	06/27	*	*	7	133	1800	9850	1	7	40	146	89	647
	06/28	*	*	9	95	198	730	0	0	21	58	24	107
	06/29	7	7	40	543	4726	23034	7	59	747	2041	1142	7159
	06/30	*	*	27	400	2906	14244	0	0	400	1240	553	3153
	07/02	*	*	0	0	432	2123	0	0	213	641	16	93
	07/03	*	*	5	31	1345	7122	6	41	403	1237	229	1009
	07/04	*	*	0	0	911	4799	1	5	183	587	15	107
	07/05	*	*	2	20	1364	7827	1	5	1177	4007	75	543
	07/06	*	*	0	0	320	1500	0	0	1100	3296	44	258
	07/07	4	4	14	194	597	2780	6	57	2162	6728	84	382
	07/08	6	6	16	131	1266	6266	36	233	2719	8725	369	2064
	07/09	*	*	0	0	30	137	0	0	100	306	8	48
	07/11	6	7	32	360	4811	23598	17	142	5332	18733	409	2618
	07/12	15	16	91	1069	8540	43080	180	1180	7463	23212	687	3686
	07/13	7	7	18	253	6585	38066	46	308	6557	22694	356	2108
	07/14	*	*	0	0	4156	25717	5	42	1785	5713	42	307
	07/15	*	*	0	0	583	3145	1	10	1150	3962	96	522
	07/16	*	*	1	45	175	1065	0	0	210	1068	39	122
	TOTAL	94	184	1126	16481	91195	441097	307	2089	32774	107099	6812	38438
	AVG. WT.				14.64		4.84		6.80		3.27		5.64
25520	06/09	*	*	23	428	1519	7273	0	0	0	0	17	84
	06/10	6	6	96	1679	2350	10644	0	0	11	43	262	1286
	06/14	6	6	68	1446	2305	10964	0	0	12	31	245	1380
	06/15	29	29	204	3612	13966	65464	0	0	83	248	879	5152
	06/16	10	10	50	887	4532	19924	0	0	6	19	248	1450
	06/17	5	5	25	377	2711	11190	0	0	103	281	159	828
	06/18	13	13	67	906	2922	12506	0	0	93	228	339	1700
	06/19	10	10	52	597	2442	10148	1	12	125	390	275	1472
	06/20	21	21	160	2194	11714	52060	687	3112	264	820	686	4114
	06/21	15	15	74	1178	4647	20394	0	0	212	619	294	1594
	06/22	17	18	167	2501	12197	55528	1	4	812	2712	596	3202
	06/23	29	33	100	1401	14970	67312	1	8	494	1518	1074	5843
	06/24	30	30	103	1427	5234	24493	1	6	182	538	402	2249
	06/25	21	22	122	1326	4240	19139	1	6	132	430	356	1865
	06/26	17	17	42	560	3719	16870	2	11	192	615	478	2581
	06/27	17	19	117	1600	15803	71279	1	9	636	2017	1747	10320
	06/28	23	23	68	996	10294	44834	1	6	840	2913	1172	6850
	06/29	14	14	21	371	4420	20074	0	0	1493	4185	977	5181
	06/30	17	19	85	1090	6424	28320	3	29	5194	16179	1465	6852
	07/01	14	15	38	636	4738	21474	2	12	7373	22836	1179	5936
	07/02	4	4	7	171	1007	5127	58	292	1554	4663	371	2220
	07/03	8	9	31	508	4266	20311	19	116	1897	5680	461	2612
	07/04	11	12	60	833	4888	23242	9	53	3009	10168	598	3271
	07/05	7	7	50	405	1607	7430	3	47	1738	5389	152	843

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/06	4	4	12	291	1578	7901	0	0	3739	11890	190	860
	07/07	13	13	30	414	3515	16826	44	240	12853	41055	866	5148
	07/08	15	19	37	536	3669	16966	23	149	11190	34810	464	2636
	07/09	*	*	8	115	907	4489	7	36	1645	5654	188	962
	07/10	6	6	11	97	1757	8227	21	114	5422	17476	143	839
	07/13	6	6	18	295	4209	22116	92	754	6854	21880	239	1466
	07/14	10	10	11	239	12360	69751	28	185	9195	29937	281	1663
	07/15	*	*	0	0	1179	6843	6	45	2433	8000	81	436
	07/16	*	*	100	468	550	3299	6	51	1906	6143	61	393
	TOTAL	120	427	2057	29584	172639	802418	1017	5297	81692	259367	16945	93288
	AVG. WT.				14.38		4.65		5.21		3.17		5.51
25610	06/16	*	*	1	22	335	1671	0	0	7	23	21	139
	06/17	*	*	1	5	146	753	0	0	0	0	8	52
	06/27	*	*	6	68	1805	8396	0	0	0	0	0	0
	06/30	*	*	11	136	1570	7722	0	0	49	119	7	62
	07/13	*	*	1	20	4525	22630	0	0	1980	7174	130	785
	07/14	*	*	1	19	4096	21611	0	0	2286	8589	146	851
	07/15	4	4	3	40	1147	6222	0	0	1602	5205	104	651
	TOTAL	14	16	24	310	13624	69005	0	0	5924	21110	416	2540
	AVG. WT.				12.92		5.06		0.00		3.56		6.11
25620	06/12	42	42	441	9024	20695	101836	0	0	17	41	156	1023
	06/13	61	61	350	5571	24497	120108	0	0	34	97	892	6001
	06/14	32	32	211	2681	18621	89892	0	0	33	106	596	4200
	06/15	43	45	317	4541	24086	118050	0	0	59	175	691	4491
	06/16	47	47	95	1450	9903	49243	0	0	150	426	558	3433
	06/17	56	60	290	4152	18077	87315	0	0	480	1359	880	5900
	06/18	64	64	206	2612	19873	95858	0	0	515	1530	1155	8013
	06/19	31	31	60	874	8260	39976	1	14	110	344	212	1428
	06/20	61	62	105	1249	10317	49738	0	0	333	966	428	2945
	06/21	30	32	94	1247	11826	57405	0	0	237	710	552	3595
	06/22	31	32	89	1342	22326	108609	0	0	1221	5095	965	6397
	06/23	8	8	17	279	6670	32434	0	0	125	421	286	1772
	06/24	*	*	1	9	254	972	0	0	0	0	8	40
	06/25	4	4	0	0	768	3799	0	0	39	100	91	574
	06/27	25	25	56	817	19366	93841	1	7	2213	5878	557	3433
	06/28	39	43	29	398	23815	115889	4	23	1655	5045	1206	7432
	06/29	59	60	104	1302	30144	148289	3	20	2118	6350	1372	8611
	06/30	72	75	161	2087	39069	192096	8	60	3870	12941	1609	9881
	07/01	39	41	42	500	19787	99204	6	33	1608	4885	537	3452
	07/02	38	39	12	181	18292	92550	1	10	1600	5004	334	1949
	07/03	20	20	1185	6320	19678	101277	4	28	1099	3448	166	1112
	07/04	12	12	6	70	7644	38002	1	6	554	1530	90	580
	07/05	5	5	7	56	4388	23710	3	12	753	1945	79	479
	08/11	*	*	7	83	20	136	30	198	3200	14079	320	1820

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/26	*	*	0	0	181	799	0	0	0	0	0	0
	08/29	*	*	0	0	70	299	0	0	0	0	0	0
	TOTAL	184	844	3885	46845	378627	1861327	62	411	22023	72475	13740	88561
	AVG. WT.				12.06		4.92		6.63		3.29		6.45
25625	06/16	*	*	1	22	330	1521	0	0	0	0	3	21
	06/17	4	4	7	89	1173	5359	0	0	60	189	96	823
	06/18	7	7	12	179	1509	6614	0	0	53	102	78	521
	06/19	*	*	3	51	1320	6342	0	0	15	32	20	90
	06/25	11	11	16	164	2741	13020	1	5	180	528	229	1491
	06/26	15	15	31	334	8984	44146	3	18	535	1487	374	2357
	06/27	19	19	36	460	15057	73059	14	71	678	2034	403	2252
	06/28	44	51	67	790	32390	158187	13	88	3211	9470	1605	9838
	06/29	14	14	41	617	6360	32287	4	23	419	1271	394	2178
	06/30	13	13	21	263	6318	30645	1	11	1047	3188	355	2092
	07/01	15	15	9	115	5757	28956	1	8	576	1772	398	2412
	07/02	19	19	8	108	8012	39766	0	0	616	1967	235	1358
	07/03	22	22	9	147	16099	82566	3	26	1534	4590	346	1903
	07/04	18	18	11	137	11159	56860	6	40	1743	5082	340	1892
	07/05	*	*	11	131	1238	6264	0	0	778	2309	77	491
	TOTAL	103	214	283	3607	118447	585592	46	290	11445	34021	4953	29719
	AVG. WT.				12.75		4.94		6.30		2.97		6.00
25630	06/13	*	*	5	42	122	645	0	0	0	0	6	38
	06/14	*	*	20	237	2850	13936	0	0	0	0	0	0
	06/25	18	18	32	462	2073	10175	1	5	204	629	125	779
	06/26	9	9	16	314	2731	13436	1	6	274	839	173	1005
	06/27	5	5	7	91	4957	24260	2	17	662	2029	255	1492
	06/28	8	9	53	802	4682	22370	0	0	882	2625	282	1677
	06/29	17	18	58	896	6682	33570	1	7	528	1586	247	1545
	06/30	14	14	29	531	6888	34632	2	15	722	2126	486	3354
	07/01	20	20	59	778	8863	43129	5	38	1461	4680	425	2672
	07/02	15	15	23	349	6785	33000	8	47	1488	4719	306	1761
	07/03	16	16	11	277	7233	35885	2	16	1760	5688	300	2114
	07/04	21	24	35	584	22817	117225	40	234	8346	26902	1417	8476
	07/05	*	*	0	0	19	94	0	0	11	36	2	16
	07/22	*	*	0	0	11	98	0	0	525	1495	6	45
	08/03	*	*	0	0	0	0	1	8	4050	12090	0	0
	TOTAL	58	154	348	5363	76713	382455	63	393	20913	65444	4030	24974
	AVG. WT.				15.41		4.99		6.24		3.13		6.20
25710	07/04	*	*	1	21	430	2331	0	0	65	230	4	17
	TOAL	*	*	1	21	430	2331	0	0	65	230	4	17
	AVG. WT.				21.00		5.42		0.00		3.54		4.25
25720	06/09	5	5	21	479	1085	5248	0	0	0	0	0	0

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/10	21	22	72	1415	15425	74969	0	0	6	14	9	85
	06/12	8	8	37	859	1407	7099	0	0	3	9	9	76
	06/13	17	17	97	1818	9402	45872	0	0	3	8	34	322
	06/14	11	11	20	403	9142	43438	0	0	0	0	51	424
	06/15	15	16	149	2907	16500	78752	0	0	17	57	93	770
	06/16	15	16	29	551	9165	44845	0	0	10	28	62	491
	06/17	23	23	26	478	11624	56468	0	0	4	9	91	699
	06/18	37	37	58	1120	16866	79510	0	0	43	134	153	1149
	06/19	4	4	1	24	957	5001	0	0	1	3	9	72
	06/21	12	12	22	368	1751	8538	0	0	26	67	52	310
	06/22	28	29	115	1880	12031	56774	0	0	106	303	183	1351
	06/23	*	*	12	226	1203	6011	1	7	5	12	13	88
	06/25	8	8	44	734	2947	13842	0	0	148	460	200	1437
	06/26	33	33	51	953	15005	71059	1	8	346	1090	282	2110
	06/27	21	21	60	1123	23042	110212	0	0	851	2561	339	2280
	06/28	*	*	12	188	3757	18414	32	240	435	1349	632	3603
	07/04	14	14	16	280	8061	39787	2	10	1195	3819	69	454
	07/05	39	40	62	1054	17801	87646	26	166	4468	14116	480	2798
	07/06	16	16	43	717	11191	56272	393	1942	4073	12140	306	1530
	07/07	28	32	70	1252	16461	81406	458	2714	5570	17297	326	2028
	07/08	24	25	88	1066	8050	40795	120	652	2933	9009	224	1380
	07/09	20	20	24	367	3742	18756	28	195	1941	6278	76	536
	07/10	17	17	88	786	4113	19834	170	985	2525	7967	232	1282
	07/11	18	18	64	923	11280	55403	256	1554	5337	16415	210	1236
	07/12	17	17	27	445	8279	41102	80	516	2840	9015	95	632
	07/13	17	17	37	562	7512	38455	109	663	5154	17318	80	495
	07/14	11	11	11	153	5231	26196	24	187	5814	19585	43	256
	07/15	23	23	9	167	15615	79831	56	354	20444	68228	237	1545
	07/16	*	*	0	0	2207	11835	14	108	1063	3122	10	68
	07/20	15	15	11	192	3960	19749	55	347	9310	31131	44	289
	07/21	19	20	10	201	6741	34466	309	1896	15886	52185	1494	8846
	07/22	20	20	10	182	9900	50460	69	488	28279	94035	106	740
	07/23	25	25	7	114	6000	31633	89	517	24953	85825	121	832
	07/24	21	21	13	345	5273	26969	26	174	21979	73837	153	1008
	07/27	6	6	8	182	2809	15217	44	329	9077	29525	43	285
	07/28	12	13	12	279	6099	31200	83	608	26225	87101	176	1146
	07/29	6	6	10	246	2149	10971	32	208	15550	47611	125	773
	07/30	*	*	15	193	1029	5219	110	681	7401	22676	73	454
	07/31	7	7	18	404	2842	14335	159	1080	25456	82955	118	791
	08/01	4	4	0	0	875	4523	18	138	8778	28570	53	385
	08/02	12	12	5	112	7224	37820	209	1466	38439	125615	343	2380
	08/03	17	18	8	220	8400	42923	161	1055	70917	235327	307	1924
	08/04	15	16	8	227	7513	38107	84	622	50664	170633	271	1887
	08/05	16	18	5	135	7651	37705	117	721	93257	306341	409	2577
	08/06	11	11	5	105	5287	28342	193	1263	73153	228042	622	3901
	08/07	8	8	3	95	3037	15860	48	339	36933	113537	322	2313

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/12	*	*	1	29	806	4473	32	195	5491	18087	90	600
	08/13	*	*	11	282	1118	6585	119	788	10293	36660	127	890
	08/19	*	*	0	0	12	57	4	26	3200	10660	46	304
	08/20	*	*	0	0	0	0	0	0	5100	17213	0	0
	09/03	*	*	0	0	46	245	52	416	0	0	17	123
	09/04	6	9	0	0	1341	7008	920	8033	5418	17101	598	3980
	09/06	*	*	0	0	14	75	15	138	0	0	4	28
	09/07	*	*	0	0	512	2662	164	1491	0	0	84	670
	09/08	*	*	0	0	451	2133	323	2977	0	0	108	856
	09/09	*	4	2	26	543	2832	310	2867	0	0	812	5264
	09/10	*	*	1	17	475	2372	287	2344	0	0	135	1064
	09/11	*	*	1	17	60	301	152	1216	0	0	39	288
	09/13	*	*	0	0	497	2657	436	3092	0	0	179	1258
	09/14	*	*	0	0	146	730	55	440	0	0	104	728
	TOTAL	111	773	1529	26901	363662	1800999	6445	46256	651120	2125080	11723	76091
	AVG. WT.				17.59		4.95		7.18		3.26		6.49
25741	09/08	*	*	0	0	9	58	2	19	26	79	1414	8096
	09/09	*	*	0	0	110	559	72	655	425	1371	24	164
	09/13	*	*	0	0	0	0	1	8	0	0	410	2836
	09/17	*	*	0	0	193	962	160	1439	0	0	239	1588
	TOTAL	*	5	0	0	312	1579	235	2121	451	1450	2087	12684
	AVG. WT.				0.00		5.06		9.03		3.22		6.08
25750	06/10	*	*	0	0	330	1691	0	0	0	0	0	0
	06/13	*	*	1	14	54	256	0	0	0	0	0	0
	06/14	4	4	0	0	640	3119	0	0	0	0	3	29
	06/15	*	*	3	98	740	3577	0	0	0	0	4	28
	06/18	*	*	1	26	96	445	0	0	1	4	4	32
	06/21	*	*	6	142	293	1285	0	0	2	7	12	66
	06/23	*	*	1	25	559	2474	0	0	4	8	11	44
	06/25	*	*	0	0	300	1347	0	0	7	24	8	61
	06/26	*	*	0	0	806	3645	0	0	40	129	27	217
	06/27	*	*	0	0	358	1525	0	0	23	83	13	97
	07/04	*	*	1	18	1026	4693	0	0	154	480	19	133
	07/05	*	*	0	0	963	4616	0	0	723	2275	14	104
	07/08	*	*	0	0	45	267	0	0	82	265	3	12
	07/09	*	*	0	0	121	607	6	65	130	406	1	5
	07/10	*	*	0	0	281	1337	3	20	292	910	2	13
	07/11	*	*	0	0	630	2786	0	0	937	2951	11	93
	07/12	*	*	0	0	126	508	0	0	666	2079	7	93
	07/20	*	*	0	0	367	1888	1	5	2416	8281	40	253
	07/21	6	6	1	12	2101	11191	12	75	13409	45284	114	770
	07/22	6	6	1	25	3084	15486	1	9	19456	65531	74	477
	07/23	7	7	0	0	1670	8600	2	14	14737	50524	50	339
	07/24	6	6	0	0	456	2361	3	18	6911	23521	67	432

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/27	7	7	1	30	856	4518	1	7	16060	57446	70	448
	07/28	*	*	0	0	228	1049	5	38	3428	11307	121	713
	07/29	5	5	0	0	330	1579	24	176	11008	35223	135	955
	07/30	7	7	0	0	1082	5283	1	6	17772	59077	282	1813
	07/31	*	*	0	0	224	815	2	11	3929	12961	102	682
	08/01	5	5	2	39	1089	5609	25	150	22471	69014	513	3295
	08/02	4	4	0	0	224	1191	3	25	17399	55192	332	2263
	08/03	4	4	0	0	100	488	3	21	6536	21522	45	335
	08/04	*	*	0	0	149	681	2	21	5518	18251	118	769
	08/05	*	*	0	0	254	1196	0	0	6275	20638	108	741
	08/06	*	*	0	0	61	284	1	8	3115	10230	68	357
	08/07	*	*	0	0	167	757	1	8	6260	19790	32	177
	08/08	*	*	0	0	78	465	0	0	2758	13100	27	188
	08/09	*	*	0	0	136	707	1	10	7906	25293	95	631
	08/10	9	9	0	0	421	2114	14	95	39105	129632	486	3212
	08/11	8	8	0	0	340	1630	6	35	31031	99799	202	1540
	08/12	10	10	0	0	2780	14291	8	57	39306	129153	156	1121
	08/13	11	12	7	153	1286	6677	108	806	41039	146866	524	3147
	08/14	13	13	0	0	677	3454	7	40	25098	79720	559	3824
	08/15	6	6	0	0	1005	5039	6	49	17057	54934	135	964
	08/16	10	10	0	0	2278	12241	2	19	36927	118179	438	3060
	08/17	14	15	1	32	909	4497	11	113	41011	134195	216	1383
	08/19	11	11	1	21	71	372	41	329	20703	68610	68	443
	08/20	10	10	0	0	63	359	14	122	30328	104224	25	163
	08/21	13	13	0	0	365	1808	44	299	39046	125136	248	1491
	08/22	11	11	0	0	521	2726	88	703	31948	105044	214	1410
	08/23	10	10	1	20	338	1572	43	322	17999	59275	121	746
	08/24	6	6	0	0	14	55	8	66	9719	31526	37	263
	08/25	6	6	0	0	0	0	11	72	11243	38794	8	64
	08/26	6	6	0	0	8	41	38	303	18991	60528	11	75
	08/27	5	5	0	0	6	26	13	111	13542	43724	6	51
	TOTAL	49	268	28	655	31106	155228	559	4228	654518	2161145	5986	39622
	AVG. WT.				23.39		4.99		7.56		3.30		6.62
25760	06/10	*	*	3	74	189	850	0	0	0	0	0	0
	06/15	*	*	2	26	196	931	0	0	0	0	1	7
	06/25	*	*	1	7	555	2578	0	0	17	46	11	85
	06/26	*	*	0	0	506	2249	0	0	16	45	15	129
	07/04	5	5	2	61	4242	20908	1	8	489	1511	15	101
	07/06	*	*	1	17	203	1040	0	0	87	268	6	32
	07/07	*	*	0	0	75	396	0	0	37	104	0	0
	07/10	*	*	2	38	295	1431	4	22	265	900	6	22
	07/11	*	*	3	26	116	513	5	26	103	321	2	21
	07/12	*	*	1	18	177	880	0	0	525	1676	15	92
	07/14	*	*	0	0	108	557	5	32	100	323	6	39
	07/20	*	*	0	0	303	1562	2	12	2615	8580	18	119

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/22	*	*	0	0	386	2000	4	20	3928	12687	37	256
	07/24	6	6	0	0	510	2740	1	7	7210	24985	60	411
	07/27	4	4	2	28	326	1701	4	31	4506	14364	53	322
	07/28	11	11	0	0	2125	11523	3	23	41900	150700	187	1132
	07/29	7	7	1	30	1618	8639	0	0	25522	88845	158	997
	07/30	9	9	2	42	2838	13930	2	14	28640	99863	133	780
	07/31	9	9	1	20	816	4303	3	21	27984	97188	229	1389
	08/01	9	9	0	0	1034	4926	1	8	35310	126879	63	372
	08/02	11	11	1	19	1208	6460	5	32	51684	171178	461	3078
	08/03	12	12	0	0	1685	9127	11	70	50256	165621	265	1740
	08/04	9	9	1	35	1211	6141	3	20	43316	145990	330	2089
	08/05	6	7	1	22	1042	5259	0	0	35807	119969	399	2464
	08/06	18	19	0	0	2870	15267	6	53	84573	273320	787	5167
	08/07	25	27	0	0	4588	23917	14	114	106094	339847	1480	9543
	08/08	24	25	1	23	3878	20708	14	92	100816	324024	704	4556
	08/09	13	13	1	21	1680	9611	6	51	54568	172067	347	2347
	08/10	14	15	0	0	1025	5551	2	14	61506	200650	250	1679
	08/11	11	11	0	0	895	4715	10	71	35452	115846	425	2830
	08/12	15	15	2	43	2507	13180	4	35	82550	273746	656	4438
	08/13	16	16	1	12	1076	5683	5	57	50925	170288	535	3662
	08/14	10	10	0	0	990	5375	9	55	32572	102975	546	3380
	08/15	8	8	0	0	689	3405	9	54	29885	98875	709	4019
	08/16	10	10	0	0	935	4587	5	39	30812	99733	440	2723
	08/17	10	10	0	0	473	2453	6	48	21775	71094	193	1088
	08/19	6	6	1	15	36	174	9	64	12225	40747	101	589
	08/20	6	6	1	4	36	199	0	0	12538	41513	207	1261
	08/21	*	*	1	19	0	0	0	0	10610	33209	440	2790
	08/22	*	*	0	0	2	13	0	0	11546	35796	0	0
	08/23	*	*	0	0	0	0	0	0	710	2269	26	128
	08/25	*	*	0	0	10	35	0	0	910	3274	10	61
	09/11	*	*	0	0	0	0	5	40	0	0	3309	18382
	09/13	*	*	0	0	0	0	3	34	0	0	1352	7712
	TOTAL	48	313	32	600	43454	225517	161	1167	1100384	3631316	14987	92032
	AVG. WT.				18.75		5.19		7.25		3.30		6.14
25770	06/25	*	*	2	46	301	1422	0	0	30	100	5	42
	06/26	*	*	0	0	174	673	1	9	5	15	1	8
	06/27	*	*	0	0	1876	8802	0	0	53	197	34	250
	07/06	*	*	1	25	1401	7264	0	0	385	1084	11	90
	07/07	*	*	1	35	286	1419	0	0	107	317	13	75
	07/08	*	*	0	0	620	3010	1	7	200	588	10	57
	07/09	*	*	0	0	389	1886	4	17	519	1706	4	18
	07/10	4	4	8	147	2196	11219	17	92	1347	4456	11	81
	07/11	4	4	1	9	942	4811	8	47	923	2991	6	55
	07/12	*	*	5	77	794	3904	3	19	261	827	4	30
	07/13	*	*	1	46	3714	19715	28	177	1110	4114	14	108

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/21	*	*	0	0	89	522	3	15	146	477	2	13
	07/22	5	5	2	51	2258	11879	41	248	8194	26964	57	380
	07/23	*	*	5	116	530	2685	11	57	2885	9577	24	166
	07/27	7	7	2	15	743	4144	19	139	18179	59094	88	525
	07/28	*	*	3	81	652	3605	12	95	17872	60451	67	456
	07/29	12	12	0	0	2042	10769	9	47	46889	152581	157	1010
	07/30	9	9	5	158	1233	6554	33	231	25059	78273	126	886
	07/31	11	11	2	76	1713	8785	14	92	49533	160462	266	1879
	08/01	8	9	1	19	1488	7690	45	328	25188	81100	244	1628
	08/02	*	*	0	0	105	560	1	8	5293	16150	62	307
	08/04	*	*	0	0	338	1817	2	10	9379	30981	105	724
	08/05	7	7	0	0	1233	6299	2	15	46401	148955	165	1088
	08/06	*	*	0	0	40	200	0	0	1034	3454	11	82
	08/07	7	7	2	52	1801	8827	60	422	48352	156992	309	2185
	08/08	10	10	1	17	2143	11251	11	76	61752	192888	296	1979
	08/09	17	18	2	38	1134	6218	3121	14897	64385	219793	281	1807
	08/10	13	13	0	0	264	1324	17	112	31816	109022	219	1512
	08/11	14	15	4	20	929	4984	65	467	67355	226022	516	3420
	08/12	9	9	2	44	983	5229	20	140	48868	160764	205	1348
	08/13	9	9	4	66	805	4304	113	799	24960	83580	198	1398
	08/14	4	4	0	0	141	837	32	232	9568	31976	141	957
	08/15	13	13	0	0	992	5505	12	85	42243	146153	409	2740
	08/16	6	6	0	0	471	2495	4	30	29805	94303	171	1181
	08/17	7	8	0	0	278	1471	9	81	16255	53752	133	774
	08/19	4	4	0	0	12	52	8	61	14662	47845	91	629
	08/20	11	11	0	0	11	65	4	40	60484	188310	16	93
	08/21	*	*	0	0	0	0	0	0	25777	85162	0	0
	08/23	4	4	0	0	3	13	5	42	33628	106208	4	31
	08/24	4	4	1	14	8	36	2	14	10433	32804	6	34
	08/25	*	*	1	10	0	0	7	48	1127	3599	0	0
	TOTAL	47	234	56	1162	35132	182245	3744	19199	852462	2784087	4482	30046
	AVG. WT.				20.75		5.19		5.13		3.27		6.70
25810	06/22	10	10	15	200	3199	16080	20	122	172	447	75	337
	06/23	*	*	19	179	993	4833	7	40	237	718	255	1103
	06/28	*	*	0	0	69	272	0	0	0	0	0	0
	07/05	*	*	3	14	323	1371	0	0	113	342	12	72
	07/06	5	5	12	53	1400	7933	178	1052	785	2202	52	286
	07/07	11	11	216	2443	6966	35453	1607	9472	4906	15100	303	1907
	07/08	14	14	194	1397	5957	32100	1537	8406	4940	15702	190	1176
	07/09	10	10	177	1909	5534	29853	1299	8200	5614	15976	174	948
	07/10	4	4	5	51	946	4993	163	1108	1420	4036	5	24
	07/11	4	4	157	1336	2006	10130	645	3483	1489	4451	27	136
	07/13	11	11	115	713	1613	8689	402	2683	2342	6491	164	508
	07/14	6	6	91	554	1519	7832	301	1851	2330	6075	152	546
	07/15	9	9	77	701	1433	7364	267	1529	3914	11642	54	286

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/16	*	*	2	8	1098	6459	37	197	1602	4874	8	46
	07/17	16	16	27	330	2112	11165	743	4119	8385	24270	88	418
	07/20	*	*	15	50	408	2326	130	804	4653	12914	40	292
	07/21	*	*	1	39	322	1788	72	431	3000	9003	46	302
	07/24	*	*	0	0	42	206	11	68	3383	10827	51	286
	07/28	*	*	12	202	204	1095	117	781	5647	17399	152	923
	07/30	*	*	26	505	190	982	44	305	3928	12846	158	1228
	07/31	*	*	28	450	121	650	60	483	3520	11303	75	594
	08/01	*	*	12	199	293	1496	129	988	14365	43393	226	1612
	08/02	*	*	14	325	490	2457	79	620	3488	10955	145	1255
	08/03	*	*	25	487	115	617	115	905	4310	14813	180	1389
	08/04	*	*	15	242	165	858	133	1068	7638	24645	233	1681
	08/05	*	*	15	265	93	503	102	721	3430	11569	120	946
	08/09	*	*	63	626	67	334	261	1830	6950	17375	219	1533
	08/10	*	*	15	285	55	300	180	1300	5400	17540	245	1785
	08/12	*	*	2	27	80	460	80	404	10120	31394	205	1214
	08/13	*	*	0	0	15	80	19	75	3310	9928	135	940
	08/14	*	*	2	30	87	470	83	658	3421	11456	325	2556
	08/15	*	*	3	29	50	270	31	251	2811	9302	142	1126
	08/16	*	*	0	0	16	82	76	457	966	2899	49	294
	08/17	*	*	0	0	25	135	75	597	2668	8540	84	630
	08/22	*	*	0	0	5	22	20	183	2900	8701	46	342
	TOTAL	63	133	1358	13649	38011	199658	9023	55191	134157	409128	4435	28721
	AVG. WT.				10.05		5.25		6.12		3.05		6.48
25820	06/22	*	*	0	0	60	291	0	0	0	0	0	0
	07/06	4	4	2	13	1272	6863	33	183	1022	3409	10	89
	07/08	*	*	24	180	948	5087	47	292	1290	3895	11	65
	07/10	*	*	17	195	578	3065	55	309	753	2215	25	159
	07/11	*	*	0	0	38	213	12	47	155	301	0	0
	07/13	*	*	18	120	1395	7641	130	647	2628	7575	15	84
	07/14	5	5	7	94	1238	6441	62	372	1811	6031	36	217
	07/15	5	5	12	202	1201	6105	23	138	1618	5145	30	242
	07/16	5	5	10	150	958	5170	48	271	2525	7564	54	361
	07/17	5	5	9	93	795	3946	112	756	3144	9692	82	448
	07/20	6	6	6	42	1074	5358	172	865	10894	33052	181	1188
	07/21	6	6	15	130	1556	8244	151	1035	24509	76963	316	2048
	07/22	5	5	3	54	394	2330	27	163	8895	28408	93	620
	07/23	7	9	16	136	1132	6345	109	770	18821	58796	281	2039
	07/24	12	13	44	584	1148	6451	222	1570	20110	59588	626	4362
	07/25	*	*	1	4	245	1409	48	297	3944	12367	109	648
	07/27	*	*	3	54	192	963	72	479	5742	17896	116	721
	07/28	8	8	27	309	1040	5812	236	1663	53584	153448	1111	6482
	07/29	7	7	5	135	750	3885	68	433	32429	94706	601	3739
	07/30	7	7	22	161	576	3198	153	1032	33508	110338	846	5277
	07/31	4	4	15	248	339	1737	46	324	21061	68610	423	2924

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/01	5	5	6	73	329	1766	18	121	22240	70632	641	4454
	08/02	9	9	37	461	481	2512	326	2187	46841	146584	1345	9182
	08/03	8	8	5	95	210	1080	65	429	23177	72756	590	3940
	08/04	6	6	36	665	254	1373	142	984	24920	76622	539	3711
	08/05	10	10	27	354	166	790	115	697	29613	92033	660	4314
	08/06	6	6	0	0	123	691	53	392	16631	50574	619	3965
	08/07	*	*	15	160	107	504	122	920	15944	49131	565	3574
	08/08	*	*	4	135	114	630	57	343	19290	55217	559	3619
	08/09	*	*	4	38	124	614	64	377	20763	59891	439	2691
	08/10	4	4	0	0	70	359	76	561	22326	69257	576	3762
	08/11	5	5	22	293	164	873	253	1836	17151	58678	998	7195
	08/12	6	6	31	284	275	1388	446	2993	31881	114758	2003	12817
	08/13	5	5	0	0	77	368	25	180	14226	45217	505	3369
	08/14	6	6	0	0	205	1072	472	3528	35448	119124	1787	9684
	08/15	6	6	7	161	87	469	123	920	32206	102796	1280	8857
	08/16	7	8	2	36	130	601	410	2800	49743	144834	1253	8172
	08/17	9	9	4	61	178	917	403	3016	31962	96476	1228	8111
	08/19	5	5	1	41	37	183	106	815	16286	51621	780	4756
	08/20	7	8	6	57	57	282	528	3627	49154	159509	1750	12022
	08/21	4	4	4	64	35	163	168	1291	8397	34995	636	4085
	08/22	8	8	0	0	49	219	202	1516	23080	70247	1088	6933
	08/23	5	5	4	71	23	114	129	988	13593	44022	1147	6120
	08/24	7	7	5	91	88	422	442	3229	31724	102012	1814	10584
	08/25	4	4	3	54	110	531	930	5338	17348	54900	1360	7471
	08/26	5	6	2	14	50	247	824	6388	20167	63109	1295	7919
	08/27	6	6	0	0	14	72	475	3637	12812	41209	570	3687
	08/28	*	*	0	0	50	253	802	4818	27357	82130	799	5073
	08/30	*	*	0	0	0	0	16	95	600	1801	28	189
	09/02	*	*	0	0	0	0	10	70	1394	4600	116	700
	09/03	*	*	0	0	0	0	813	5076	3901	12211	439	2570
	TOTAL	55	263	481	6112	20536	109047	10441	70818	928618	2906945	32375	205239
	AVG. WT.				12.71		5.31		6.78		3.13		6.34
25830	06/14	*	*	0	0	84	358	0	0	0	0	61	295
	06/16	*	*	1	25	805	3994	0	0	0	0	320	1242
	06/21	*	*	1	32	138	760	0	0	0	0	0	0
	06/22	12	12	23	375	5276	26469	15	79	460	1268	730	2970
	07/06	17	17	59	548	3427	18510	562	3099	2377	6889	2	11
	07/07	21	23	209	1748	7409	38793	1154	6722	5711	16343	139	614
	07/08	13	13	71	605	5399	29866	991	5045	4641	13427	123	503
	07/09	24	25	587	4301	9346	48728	3800	20442	9789	28161	387	2010
	07/10	11	11	134	642	2320	11421	844	4414	2437	6458	28	136
	07/11	*	*	157	889	1171	5803	678	3804	1928	5576	97	639
	07/13	*	*	26	236	362	1921	71	555	498	1432	27	83
	07/14	*	*	0	0	310	1754	80	575	1187	2996	13	95
	07/15	*	*	0	0	263	1586	12	76	437	1095	9	63

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/16	7	7	118	957	1862	10906	878	4787	8039	20634	198	1080
	07/17	*	*	77	1218	544	3061	592	3086	3982	10257	51	321
	07/20	9	9	0	0	1267	6363	222	1142	11211	32835	135	877
	07/21	8	8	6	74	3116	12580	421	2232	22754	69994	320	1821
	07/22	9	10	2	30	976	5132	390	2117	9074	26547	160	1007
	07/23	6	6	0	0	293	1443	49	355	5480	16332	208	1579
	07/24	7	7	1	10	220	1028	15	107	2981	9030	49	246
	07/27	7	8	1	30	206	993	54	339	6231	19041	120	540
	07/28	8	9	4	61	287	1474	61	359	8815	26730	119	844
	07/29	7	7	2	32	332	1697	28	157	13737	41375	216	1459
	07/30	5	5	2	56	224	1121	19	119	13296	38743	201	1308
	07/31	6	6	12	83	142	832	24	142	13958	41282	223	1133
	08/01	4	4	0	0	95	458	14	90	11030	33394	136	972
	08/02	5	5	4	106	105	562	40	243	18236	55509	188	1214
	08/03	5	5	2	47	23	142	8	69	6930	20025	163	888
	08/04	*	*	0	0	17	92	10	63	1635	5412	27	222
	08/06	*	*	0	0	6	25	3	35	910	2810	32	164
	08/07	*	*	0	0	8	41	2	16	1348	4183	6	37
	08/10	*	*	0	0	19	90	6	52	3685	11277	83	481
	08/11	*	*	0	0	40	204	2	9	2575	7841	100	617
	08/13	*	*	0	0	0	0	0	0	476	1514	14	79
	08/14	*	*	0	0	0	0	0	0	1366	4263	29	195
	08/15	4	4	0	0	39	152	8	46	7412	23568	144	1053
	08/16	*	*	0	0	5	42	4	30	6147	18442	87	652
	08/17	*	*	0	0	6	31	0	0	2196	7076	28	190
	08/18	*	*	0	0	0	0	10	71	2161	8642	34	274
	08/19	7	7	0	0	3	16	113	1097	16695	52990	313	1910
	08/20	7	7	0	0	66	383	172	1524	24968	80237	563	3036
	08/21	8	8	0	0	96	409	232	1546	31573	95469	768	3944
	08/22	5	6	3	44	57	289	175	1274	21946	71422	858	4672
	08/23	*	*	0	0	2	8	10	55	3354	11020	51	270
	08/24	*	*	0	0	9	36	21	180	4080	12900	84	420
	08/25	*	*	0	0	30	130	260	1862	14550	47895	200	1392
	08/28	*	*	0	0	15	73	111	667	6456	19368	101	708
	09/01	*	*	0	0	0	0	9	80	1600	4892	45	341
	TOTAL	69	260	1502	12149	46420	239776	12170	68762	340352	1036594	7990	44607
	AVG. WT.				8.09		5.17		5.65		3.05		5.58
25840	06/15	9	9	23	409	5468	27839	0	0	109	304	1147	5224
	06/21	*	*	0	0	480	2652	0	0	15	62	70	200
	06/22	9	12	24	199	4148	20437	12	66	474	1291	1107	5966
	06/23	10	10	131	1521	12919	64765	55	324	915	2608	3586	15453
	07/05	*	*	0	0	842	4214	0	0	776	1942	59	413
	07/06	*	*	1	15	59	267	0	0	4	11	0	0
	07/07	*	*	0	0	67	375	9	58	66	192	0	0
	07/08	8	8	61	508	3409	19564	991	5815	3885	10649	388	2027

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/09	10	10	20	234	2931	15550	856	4689	2789	8138	105	511
	07/10	5	5	426	1425	1641	9388	1141	5660	2561	7221	119	436
	07/11	*	*	458	2932	2104	12063	1588	8526	4287	11272	536	2501
	07/13	*	*	4	30	260	1381	60	362	400	950	15	105
	07/14	4	4	50	422	1214	6670	317	2045	1831	6435	24	135
	07/16	*	*	5	39	567	2927	97	573	1825	5349	32	174
	07/17	5	5	10	121	1030	5359	431	2215	3604	10720	12	71
	07/20	*	*	36	392	793	3976	218	1396	9079	27747	307	1801
	07/21	*	*	16	121	698	3562	272	1324	8139	22399	124	616
	07/22	*	*	50	349	924	4752	56	336	11690	29655	378	2635
	07/24	*	*	2	10	50	270	6	40	415	1410	4	28
	08/02	*	*	0	0	39	193	7	49	3249	10417	51	426
	08/03	*	*	1	10	38	190	8	59	2705	8448	49	400
	08/10	*	*	0	0	281	1519	200	1553	18090	57888	405	3176
	08/11	*	*	2	33	22	113	11	91	4366	15283	92	647
	08/15	*	*	5	42	65	365	100	798	9045	28947	175	1283
	08/16	*	*	0	0	204	1143	300	2221	16755	45058	331	2314
	08/18	*	*	0	0	79	395	172	1379	8563	30830	193	1351
	08/20	*	*	0	0	46	189	75	605	14613	46764	178	1399
	08/21	*	*	0	0	30	151	122	983	13418	38913	218	1528
	08/22	*	*	0	0	40	200	115	819	20131	59204	322	2098
	08/23	*	*	0	0	11	56	75	451	13110	38979	205	1270
	08/24	*	*	30	309	5	26	42	342	1149	3333	16	113
	TOTAL	50	100	1355	9121	40464	210551	7336	42779	178058	532419	10248	54301
	AVG. WT.				6.73		5.20		5.83		2.99		5.30
25851	06/14	*	*	0	0	348	1774	0	0	0	0	5	30
	07/13	*	*	27	366	968	5015	154	880	1676	5012	0	0
	07/14	6	6	69	992	1934	10398	497	3092	5043	14857	38	266
	07/15	10	10	111	1488	1873	9940	881	5262	6816	20077	46	277
	07/16	*	*	6	120	195	1057	68	407	775	2283	11	70
	07/17	*	*	0	0	207	1041	16	112	712	2091	15	87
	07/20	*	*	0	0	656	3634	97	765	7157	22741	96	793
	07/21	10	10	7	159	3465	16564	492	2818	36841	108151	417	2653
	07/22	7	7	14	259	2377	12672	632	3943	30657	105472	308	1850
	07/23	10	11	20	378	881	4472	327	1909	16115	50668	114	725
	07/24	14	14	20	299	1826	8602	888	6144	23685	75666	466	2936
	07/27	5	5	5	112	262	1388	157	1094	13790	42723	48	361
	07/28	8	8	20	410	1050	5279	295	1989	34135	104483	148	879
	07/29	8	8	19	388	1121	5972	264	1636	39846	132691	243	1477
	07/30	9	11	13	222	1372	6982	481	2859	56997	181717	276	1733
	07/31	8	8	7	170	387	2049	250	1528	32453	103342	149	898
	08/01	8	8	30	251	524	2707	169	1088	28110	87808	212	1441
	08/02	*	*	0	0	322	1667	64	391	17966	53915	177	1145
	08/03	8	8	4	70	421	2182	243	1582	45355	140705	415	2699
	08/04	7	7	24	541	476	2639	251	1591	49464	153070	415	2829

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/05	6	6	18	460	173	919	151	1022	38397	115639	396	2116
	08/06	4	5	10	247	134	650	133	859	19568	58621	178	1077
	08/07	13	13	49	545	517	2708	707	4979	70329	230709	627	4259
	08/08	9	11	13	236	310	1760	409	3282	46458	144806	344	2487
	08/09	12	14	8	211	536	2766	455	2971	49154	158635	401	2587
	08/10	8	8	3	58	188	1058	223	1603	29263	87075	451	3284
	08/11	11	12	16	391	533	2785	685	5022	43635	142223	549	3539
	08/12	7	7	9	192	176	933	377	2643	25513	78391	300	1904
	08/13	12	12	14	250	438	2165	602	4215	39077	124612	1010	6918
	08/14	8	9	1	21	123	672	512	3784	26353	80938	1037	6530
	08/15	*	*	1	47	100	537	281	1861	16590	56315	379	2924
	08/16	5	5	1	15	78	460	362	2490	28133	88405	459	3272
	08/17	9	9	7	132	147	747	343	2342	33250	108223	430	2835
	08/19	4	4	0	0	80	511	878	6201	28745	86991	615	4164
	08/20	*	*	4	51	17	90	226	1859	16665	53878	310	2300
	08/22	*	*	0	0	18	84	163	1736	11023	35285	1248	8745
	08/23	*	*	8	102	35	169	629	4193	19381	62192	1403	9306
	08/24	*	*	1	11	12811	39287	0	0	0	0	31	234
	08/25	*	*	2	38	292	1499	2332	14578	24428	77307	854	5115
	08/27	*	*	0	0	0	0	31	259	3124	9643	392	2753
	08/28	*	*	0	0	38	199	943	6882	25229	75566	755	4867
	TOTAL	38	266	561	9232	37409	166033	16668	111871	1041908	3282926	15768	104365
	AVG. WT.				16.46		4.44		6.71		3.15		6.62
25852	06/22	*	*	3	42	2100	10330	0	0	17	45	55	490
	07/21	*	*	0	0	262	1180	50	225	2682	8050	38	225
	07/22	*	*	0	0	317	1590	25	144	5065	14542	37	239
	07/24	*	*	0	0	66	339	18	99	930	2763	7	37
	07/30	*	*	0	0	60	294	10	85	3659	10963	12	72
	08/02	*	*	0	0	87	472	24	162	5477	16901	26	155
	08/05	*	*	0	0	73	466	13	73	4481	13505	34	225
	08/06	*	*	0	0	17	82	13	120	3069	9783	32	241
	08/10	*	*	0	0	17	85	4	25	1447	4569	14	139
	08/12	*	*	0	0	19	93	50	305	2055	6456	37	161
	08/13	*	*	0	0	25	104	23	150	3054	9583	24	170
	08/14	4	4	0	0	20	97	34	289	5522	17698	177	1077
	08/15	10	10	1	10	80	381	159	1011	26926	86590	633	4240
	08/16	9	9	0	0	18	72	104	762	14632	46009	274	1610
	08/17	4	4	0	0	7	37	25	175	7627	24456	54	370
	08/19	*	*	0	0	0	0	113	851	5992	19384	152	1153
	08/20	4	4	0	0	2	12	43	447	7363	23522	126	676
	08/21	7	7	1	22	59	396	101	869	17850	59282	544	3001
	08/22	*	*	0	0	1	6	38	190	890	2610	2	14
	08/23	6	6	0	0	48	188	105	797	9525	31713	178	959
	08/24	6	6	0	0	48	210	278	2062	16096	54939	818	4357
	08/25	*	*	0	0	10	54	466	4686	3941	12614	101	651
	08/26	5	5	1	21	7	32	251	2510	9510	30012	374	2576

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/27	5	5	0	0	8	31	154	1405	10101	32588	215	1400
	08/31	6	6	0	0	2	10	339	3326	8552	28232	451	2425
	09/01	*	*	0	0	4	23	930	7366	10419	33824	978	6613
	09/02	*	*	0	0	3	15	101	853	4300	14194	65	514
	TOTAL	23	90	6	95	3360	16599	3471	28987	191182	614827	5458	33790
	AVG. WT.				15.83		4.94		8.35		3.22		6.19
25853	07/17	*	*	16	390	294	1535	42	328	450	1370	0	0
	TOTAL	*	*	16	390	294	1535	42	328	450	1370	0	0
	AVG. WT.				24.38		5.22		7.81		3.04		0.00
25854	07/24	*	*	1	15	145	665	37	211	1270	3801	23	130
	08/05	*	*	0	0	0	0	7	43	1380	4249	31	156
	08/06	*	*	1	18	4	19	8	75	775	2317	20	118
	08/12	*	*	0	0	12	61	0	0	2197	6620	25	122
	08/13	*	*	0	0	9	49	22	155	1848	5585	17	92
	09/03	*	*	0	0	4	25	376	2352	2140	6700	0	0
	09/10	*	*	0	0	9	41	3	17	1150	3073	2	12
	TOTAL	6	7	2	33	183	860	453	2853	10760	32345	118	630
	AVG. WT.				16.50		4.70		6.30		3.01		5.34
25855	06/14	*	*	7	61	2200	11658	0	0	8	25	137	590
	06/15	*	*	5	90	2398	11767	0	0	0	0	118	474
	06/21	4	4	3	28	1555	7756	1	3	3	9	0	0
	06/22	4	4	5	100	3774	18939	5	29	46	109	0	0
	06/23	*	*	1	20	1000	5947	0	0	20	50	35	90
	07/06	9	9	233	4003	6201	31492	1354	5210	5268	14004	62	269
	07/07	8	8	23	323	2691	14229	977	5229	5569	14595	0	0
	07/08	9	9	45	557	3097	16135	915	5155	5379	15987	56	317
	07/09	5	6	63	1233	2234	12060	303	1870	2210	6432	0	0
	07/10	7	7	46	857	2050	10306	251	1632	1950	5763	26	116
	07/13	*	*	3	74	776	4183	76	301	2077	7190	5	28
	07/14	*	*	5	99	794	4031	105	677	1635	6055	25	114
	07/15	5	5	7	100	599	3239	279	1716	1921	6205	24	92
	07/16	12	13	111	1534	2340	12167	1018	6140	6716	19475	62	346
	07/17	4	4	15	157	844	4225	309	1855	3566	10391	57	316
	07/20	*	*	0	0	1148	5162	102	461	11543	34631	113	680
	07/21	*	*	2	90	586	2729	378	1882	8281	24318	71	407
	07/23	*	*	1	10	365	1776	233	1117	3499	10835	12	74
	07/24	*	*	4	31	391	2091	494	2882	5961	18345	15	99
	07/28	*	*	0	0	85	424	70	340	4285	12855	47	237
	07/29	*	*	0	0	129	647	120	594	4204	12712	84	421
	07/30	*	*	0	0	437	2495	37	231	13648	40973	52	412
	08/02	*	*	0	0	480	2404	115	692	19836	59892	162	1139
	08/03	*	*	3	36	291	1800	112	687	15896	49678	205	941
	08/05	4	4	0	0	444	2633	226	1567	21148	61108	285	1830

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/06	*	*	1	40	244	1224	48	288	20168	60305	146	1028
	08/08	*	*	1	24	157	962	42	254	21589	64768	92	617
	08/10	*	*	3	37	227	1542	45	305	24532	73567	259	1752
	08/11	*	*	1	10	167	1106	161	1147	15074	39194	100	704
	08/12	*	*	1	11	227	1463	118	745	17091	51571	188	1278
	08/14	*	*	0	0	68	443	134	938	11811	35433	122	855
	08/15	*	*	2	29	293	1541	301	2182	18075	59184	331	2540
	08/16	*	*	0	0	64	415	84	591	6360	19081	140	910
	08/17	*	*	1	16	82	418	23	134	145	482	6	43
	08/19	*	*	0	0	86	532	692	4397	25336	78997	566	3182
	08/23	*	*	11	297	170	1178	302	2356	10639	32982	381	2748
	08/28	*	*	0	0	184	944	854	5331	9448	29574	351	2055
	TOTAL	34	117	603	9867	38878	202063	10284	58938	324937	976775	4335	26704
	AVG. WT.				16.36		5.20		5.73		3.01		6.16
25860	06/22	*	*	1	30	1284	6298	0	0	110	271	137	550
	06/23	*	*	37	333	3483	19057	1	6	195	601	1104	4557
	07/07	*	*	6	81	558	3025	105	903	992	2844	22	180
	07/08	7	8	157	2576	3756	20163	984	6199	5442	15114	229	1501
	07/09	7	8	247	3623	3980	19833	801	6124	4713	13497	198	1182
	07/10	4	4	70	692	1045	5475	474	3720	1330	4270	70	536
	07/13	8	8	28	290	1542	8126	868	5398	2077	7123	98	424
	07/14	12	12	51	490	2780	15270	1378	8287	6082	17858	75	364
	07/15	5	5	74	664	1448	7824	1561	8915	2586	7468	151	515
	07/16	*	*	2	30	367	1916	220	1337	1161	3295	0	0
	07/17	*	*	4	75	503	2787	310	1848	3009	8874	28	150
	07/22	4	4	9	67	1333	7380	1454	8735	22564	68359	136	943
	07/23	*	*	1	48	447	2148	5	49	6671	21043	25	145
	07/24	*	*	1	28	310	1475	275	1375	3527	10788	56	342
	07/27	*	*	2	64	35	178	4	29	3851	15405	19	114
	07/28	4	4	3	62	186	1040	38	215	28958	103738	99	670
	07/29	*	*	0	0	574	3059	141	1079	23399	70192	99	679
	07/30	*	*	1	25	514	3080	287	1869	14374	40171	58	421
	07/31	*	*	4	108	387	2064	162	1074	22728	70361	97	623
	08/01	*	*	3	90	386	2136	191	1146	17450	51346	85	572
	08/02	*	*	0	0	105	603	148	888	4185	10464	47	335
	08/03	4	5	4	78	576	3327	401	2368	29512	81388	186	1218
	08/04	6	8	3	56	609	3099	166	1194	57868	194128	116	654
	08/05	*	*	0	0	215	970	0	0	15598	48119	0	0
	08/06	5	5	0	0	185	1022	122	1012	18126	57006	87	640
	08/07	*	*	3	15	366	2150	414	2954	13885	45740	76	588
	08/08	*	*	0	0	699	3727	339	2564	24299	78606	89	618
	08/09	4	4	7	94	472	2438	193	1636	19272	61065	189	1104
	08/10	4	4	0	0	372	1897	131	1011	13464	42437	161	1016
	08/11	5	5	0	0	259	1326	149	1116	21434	67072	155	1054
	08/12	*	*	2	35	92	521	141	1052	9297	29301	67	453

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/13	*	*	0	0	99	609	59	481	1815	5749	14	109
	08/15	*	*	0	0	25	137	8	58	3000	10091	31	245
	08/16	*	*	0	0	12	59	20	122	1624	5217	30	160
	08/21	*	*	0	0	0	0	0	0	1419	4708	41	338
	08/22	*	*	0	0	1	6	0	0	1831	5695	142	1200
	08/24	*	*	0	0	5	18	0	0	100	329	0	0
	08/25	*	*	0	0	121	620	216	2149	2178	6883	39	223
	08/26	*	*	0	0	142	730	199	1780	2905	9036	59	422
	08/27	*	*	0	0	62	295	56	466	1935	5846	55	395
	TOTAL	46	129	720	9654	29335	155888	12021	79159	414966	1301498	4370	25240
	AVG. WT.				13.41		5.31		6.59		3.14		5.78
25870	07/27	*	*	0	0	390	1591	0	0	9504	28613	7	40
	07/28	5	5	0	0	135	588	0	0	22334	72385	24	162
	07/29	6	6	0	0	297	1087	0	0	40424	134241	27	153
	07/30	10	12	1	35	702	3627	78	557	79267	260112	112	710
	07/31	7	7	2	45	67	343	16	111	35958	116433	30	235
	08/01	6	7	0	0	373	1873	0	0	41727	137151	22	132
	08/02	9	9	1	14	1324	6624	49	355	56527	198198	131	774
	08/03	7	7	0	0	469	2315	163	1308	66982	227424	115	815
	08/04	5	5	0	0	5	26	0	0	43772	157630	0	0
	08/05	5	5	0	0	9	44	6	40	35864	121081	18	125
	08/06	*	*	0	0	0	0	0	0	16542	55275	1	6
	08/07	*	*	0	0	0	0	0	0	7108	22880	25	125
	08/08	5	5	0	0	8	30	1	10	45215	150026	14	65
	08/09	6	7	0	0	9	45	0	0	59060	187878	4	33
	08/10	5	5	0	0	29	278	4	42	47658	150397	35	264
	08/11	6	7	0	0	53	297	38	418	65410	217886	68	608
	08/12	7	7	0	0	47	232	10	69	54397	174330	59	434
	08/13	*	*	0	0	0	0	0	0	1919	6229	1	8
	08/15	*	*	0	0	0	0	0	0	8100	25805	0	0
	08/16	*	*	0	0	56	323	21	237	30185	85560	47	422
	08/17	*	*	0	0	0	0	0	0	2200	6995	0	0
	08/21	*	*	0	0	0	0	0	0	4570	14522	0	0
	TOTAL	18	110	4	94	3973	19323	386	3147	774723	2551051	740	5111
	AVG. WT.				23.50		4.86		8.15		3.29		6.91
25880	06/22	*	*	16	160	1663	8319	0	0	128	320	532	2128
	07/06	6	6	45	574	6503	32643	1215	7211	5168	17060	468	2424
	07/07	11	12	117	1301	9241	47352	1790	11998	9616	29581	1691	9546
	07/08	*	*	0	0	773	4144	160	925	960	2773	109	640
	07/22	*	*	0	0	21	107	0	0	60	241	1470	7000
	08/14	*	*	0	0	0	0	0	0	6154	18462	0	0
	TOTAL	17	24	178	2035	18201	92565	3165	20134	22086	68437	4270	21738
	AVG. WT.				11.43		5.09		6.36		3.10		5.09

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs	
25890	08/01	*	*	0	0	9	36	0	0	2871	9236	4	20	
	08/02	*	*	1	30	80	462	58	349	8632	21582	51	365	
	08/09	*	*	0	0	0	0	0	0	10689	34368	4	28	
	08/10	*	*	0	0	29	278	5	42	7058	22768	34	265	
	08/11	*	*	0	0	70	354	8	59	7502	23760	55	375	
	08/12	*	*	0	0	43	214	5	41	5091	16599	33	260	
	08/17	*	*	0	0	0	0	0	0	3496	10895	3	24	
	TOTAL		4	7	1	30	231	1344	76	491	45339	139208	184	1337
	AVG. WT.					30.00		5.82		6.46		3.07		7.27
25921	07/06	*	*	0	0	355	2015	80	450	530	1283	107	426	
	07/11	*	*	3	15	345	1812	28	142	163	503	60	227	
	07/13	6	6	6	63	2758	14673	267	1261	3085	8559	96	345	
	07/14	*	*	0	0	360	1876	0	0	150	436	1	10	
	07/15	*	*	0	0	19	80	40	175	381	1008	16	91	
	07/16	*	*	0	0	44	242	0	0	4030	11691	125	715	
	07/18	*	*	0	0	22	108	26	113	207	621	19	56	
	07/28	*	*	0	0	8	40	0	0	34648	69299	2	22	
	07/29	*	*	1	27	10	35	1	3	6465	12931	1	6	
	07/31	*	*	1	6	2	7	1	4	3100	7131	2	9	
	08/12	*	*	0	0	6	43	1	6	2752	8129	10	53	
	08/20	*	*	0	0	12	51	96	603	6512	20384	41	240	
	08/25	*	*	0	0	0	0	4	36	2032	6439	45	298	
	TOTAL		15	20	11	111	3941	20982	544	2793	64055	148414	525	2498
	AVG. WT.					10.09		5.32		5.13		2.32		4.76
	25923	07/22	*	*	0	0	0	0	0	0	2135	6839	4	22
07/24		*	*	0	0	0	0	0	0	800	2427	0	0	
08/15		*	*	0	0	0	0	2	18	6500	20843	127	773	
08/16		*	*	0	0	0	0	4	36	5416	19501	67	471	
08/18		*	*	0	0	0	0	2	12	5349	19258	82	577	
08/20		*	*	0	0	0	0	3	20	8576	24871	70	493	
08/22		*	*	0	0	0	0	2	12	9682	28170	70	496	
08/23		*	*	0	0	1	3	3	18	23515	71211	20	142	
08/24		*	*	0	0	0	0	0	0	15158	45475	0	0	
08/26		*	*	1	15	0	0	5	42	1902	6015	25	174	
08/27		*	*	0	0	0	0	7	67	13709	40057	113	814	
08/28		4	4	0	0	0	0	28	185	15442	46738	126	873	
08/29		*	*	0	0	0	0	17	128	5103	15475	46	307	
08/31		*	*	0	0	0	0	0	0	226	657	4	31	
09/01		*	*	0	0	0	0	0	0	278	872	5	35	
TOTAL			8	24	1	15	1	3	73	538	113791	348409	759	5208
AVG. WT.					15.00		3.00		7.37		3.06		6.86	
25924	07/17	*	*	0	0	1	2	10	44	810	2083	18	59	
	07/21	*	*	0	0	4	25	0	0	2603	7810	0	0	

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/22	*	*	0	0	6	34	0	0	5504	15964	0	0
	07/24	*	*	1	13	1	5	0	0	376	1204	2	12
	07/28	*	*	0	0	4	21	0	0	15827	36190	5	20
	07/30	*	*	4	35	0	0	0	0	15000	38594	22	148
	08/01	*	*	0	0	6	27	0	0	6180	16173	8	62
	08/04	*	*	0	0	0	0	0	0	2009	6027	0	0
	08/07	*	*	0	0	1	5	3	14	8892	28060	22	153
	08/10	*	*	0	0	2	10	5	28	17356	55607	30	225
	08/12	*	*	0	0	0	0	7	41	5434	16303	45	313
	08/14	*	*	0	0	0	0	0	0	873	2694	25	179
	08/17	*	*	0	0	0	0	2	19	7142	25059	91	547
	08/18	*	*	0	0	0	0	0	0	853	2630	0	0
	08/20	*	*	0	0	0	0	12	88	5634	17973	55	273
	TOTAL	9	21	5	48	25	129	39	234	94493	272371	323	1991
	AVG. WT.				9.60		5.16		6.00		2.88		6.16
25925	07/07	*	*	0	0	36	194	13	53	64	197	19	66
	07/08	*	*	0	0	560	2972	142	741	4195	10767	62	324
	07/13	*	*	0	0	5	26	6	38	55	179	8	46
	07/14	*	*	0	0	66	348	70	407	592	1619	71	359
	07/15	*	*	11	85	257	1292	179	952	3613	10848	241	1209
	07/17	6	6	4	24	492	2669	319	1718	8048	21779	733	2919
	07/21	*	*	0	0	0	0	0	0	1402	4029	3	18
	07/22	*	*	0	0	43	219	7	57	12189	30473	49	346
	07/23	*	*	0	0	10	50	1	5	5434	15049	5	41
	07/24	12	12	12	189	1252	7324	226	2028	20280	58539	82	645
	07/27	*	*	0	0	2	10	1	3	19924	49812	0	0
	07/28	*	*	0	0	3	15	0	0	6206	19862	0	0
	07/29	*	*	0	0	108	555	0	0	5763	15999	24	170
	07/30	*	*	0	0	2	13	0	0	18760	57455	6	30
	07/31	*	*	0	0	7	44	3	19	7186	25873	2	11
	08/01	*	*	0	0	9	48	0	0	3858	13889	8	58
	08/02	*	*	0	0	0	0	1	5	1060	3819	2	19
	08/05	*	*	0	0	0	0	0	0	7668	23004	0	0
	08/08	*	*	0	0	10	45	0	0	15283	46618	5	35
	08/12	*	*	0	0	0	0	0	0	4561	14598	1	8
	08/13	*	*	0	0	0	0	0	0	4271	13670	1	6
	08/14	*	*	0	0	2	10	1	6	9113	28348	12	82
	08/17	*	*	0	0	0	0	0	0	5892	18444	28	168
	08/19	*	*	0	0	0	0	0	0	3353	10395	1	7
	TOTAL	27	51	27	298	2864	15834	969	6032	168770	495265	1363	6567
	AVG. WT.				11.04		5.53		6.22		2.93		4.82
25936	06/18	*	*	0	0	9	36	0	0	12	34	1	3
	06/24	*	*	5	35	200	924	0	0	219	535	151	501
	06/26	*	*	8	57	435	2046	21	102	462	1255	340	1410

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/27	*	*	10	50	219	969	0	0	315	925	40	162
	06/28	*	*	15	118	442	2056	30	167	274	829	257	1267
	07/11	*	*	0	0	452	2805	7	27	279	717	16	79
	07/20	*	*	0	0	151	708	67	537	4941	13273	41	255
	09/02	*	*	0	0	0	0	264	2008	0	0	1	6
	TOTAL	8	9	38	260	1908	9544	389	2841	6502	17568	847	3683
	AVG. WT.				6.84		5.00		7.30		2.70		4.35
25937	07/20	*	*	0	0	74	471	47	253	1050	2803	12	57
	07/31	*	*	0	0	0	0	8	47	491	1721	0	0
	TOTAL	*	*	0	0	74	471	55	300	1541	4524	12	57
	AVG. WT.				0.00		6.36		5.45		2.94		4.75
25938	06/17	*	*	0	0	307	1330	0	0	9	28	4	18
	06/19	*	*	4	40	1375	6514	0	0	625	1941	210	1211
	06/24	6	7	8	71	1224	5618	9	63	1443	4149	396	1810
	06/25	4	4	36	264	1157	4975	9	43	1231	3413	523	2127
	06/26	*	*	13	126	388	1812	19	95	510	1384	282	1256
	06/27	5	5	16	122	1304	6399	41	247	1475	3437	578	2920
	06/28	4	4	12	89	809	4045	41	213	728	2149	233	1366
	06/29	6	6	28	233	900	4351	14	81	1227	3186	454	1771
	06/30	6	7	4	23	499	2223	48	189	601	1671	76	366
	07/01	4	4	39	370	366	1758	57	294	824	2357	245	1285
	07/02	4	4	12	134	432	2035	65	345	1741	4692	106	524
	07/03	*	*	3	37	792	3962	181	1014	3165	8559	239	1170
	07/04	8	9	10	84	4040	20558	801	4014	8644	23848	1178	5025
	07/05	6	6	3	30	1520	8485	568	2817	5215	13403	578	2419
	07/06	*	*	3	18	229	1120	69	330	758	1990	91	445
	07/07	*	*	7	42	142	730	139	723	913	2209	103	325
	07/08	*	*	0	0	21	105	60	285	390	970	30	100
	07/09	4	4	3	19	124	535	82	390	1773	4423	62	265
	07/10	4	4	0	0	182	705	30	137	1832	4525	143	500
	07/13	*	*	3	12	46	205	38	265	831	2015	24	90
	07/16	*	*	7	55	53	255	79	425	1392	3555	54	245
	07/17	*	*	0	0	61	295	29	157	1133	2421	10	41
	07/21	*	*	0	0	278	1354	163	942	9953	26166	159	688
	07/22	7	7	0	0	348	1703	258	1429	19621	60186	188	998
	07/23	*	*	4	17	71	368	149	869	4542	12513	82	518
	07/24	8	12	1	11	293	1561	132	665	14785	38504	194	1029
	08/03	*	*	0	0	6	30	14	60	1899	5395	4	65
	08/04	*	*	0	0	30	134	27	178	850	2558	7	41
	08/05	*	*	0	0	4	25	16	95	1662	4600	4	20
	08/11	*	*	0	0	3	21	22	130	1623	4750	14	75
	08/12	*	*	0	0	5	21	15	91	1479	4647	1	5
	08/13	*	*	0	0	9	54	7	46	1582	5067	1	6
	08/17	*	*	0	0	20	136	21	126	6901	21658	4	23

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/18	*	*	0	0	2	7	5	45	1794	5203	9	46
	08/20	*	*	0	0	40	204	77	455	3397	10686	19	131
	TOTAL	36	122	216	1797	17080	83633	3285	17258	106548	298258	6305	28924
	AVG. WT.				8.32		4.90		5.25		2.80		4.59
25939	06/10	*	*	3	35	507	3828	0	0	43	130	69	354
	06/11	*	*	9	63	443	3103	0	0	26	79	21	146
	06/16	*	*	3	37	454	2004	0	0	110	272	31	138
	06/18	*	*	5	34	1748	8041	3	17	714	2143	619	2595
	06/19	*	*	22	220	1189	5586	0	0	702	1896	325	1462
	06/20	*	*	12	115	520	3954	0	0	369	1313	265	1406
	06/21	*	*	7	60	337	1608	0	0	236	644	95	445
	06/22	6	6	41	391	1749	8223	4	26	886	2773	226	954
	06/23	*	*	3	15	413	1941	2	9	614	1830	174	751
	06/24	*	*	19	121	657	3148	6	39	536	1712	186	830
	06/25	*	*	9	48	461	2539	35	130	610	1861	253	1111
	06/26	*	*	18	181	328	1639	26	180	704	1407	254	1782
	06/27	4	4	34	227	1384	6481	83	423	1461	4133	848	2980
	06/28	*	*	5	38	190	915	7	30	274	937	117	499
	06/29	*	*	8	43	599	2773	36	179	1058	2786	488	1727
	06/30	5	5	18	208	579	2716	36	232	609	1780	156	615
	07/01	*	*	10	69	204	1165	68	399	380	1172	101	501
	07/02	*	*	3	15	540	2479	52	271	1372	3725	105	399
	07/03	*	*	109	1153	735	3898	56	339	1812	4553	151	820
	07/04	*	*	37	218	1088	6215	389	2389	4145	11278	623	3158
	07/05	6	6	54	430	4187	22023	577	3089	6396	19505	1044	6071
	07/06	*	*	24	167	695	4868	178	1431	1599	6398	246	1968
	07/07	*	*	19	73	744	4210	316	1625	1978	6118	161	796
	07/10	*	*	3	16	1235	7914	87	468	1022	3461	62	305
	07/17	*	*	0	0	56	281	86	454	1190	3445	5	32
	07/20	*	*	0	0	58	237	12	90	2894	7710	74	435
	07/21	*	*	0	0	44	208	31	158	2876	8630	28	109
	07/22	5	6	16	115	216	1147	442	2549	18109	48897	272	1565
	07/23	*	*	11	78	493	2968	381	2103	17600	48318	242	1320
	07/24	4	6	1	9	55	290	68	548	5341	16373	28	183
	07/25	*	*	0	0	27	176	110	612	3563	10621	53	280
	07/29	*	*	0	0	0	0	0	0	470	1382	3	18
	07/30	*	*	0	0	41	220	115	709	4086	11628	41	224
	07/31	*	*	0	0	3	13	0	0	444	1225	2	9
	08/03	*	*	0	0	3	14	6	40	560	1467	0	0
	08/08	*	*	0	0	1	6	0	0	437	1224	0	0
	08/11	*	*	0	0	0	0	0	0	248	713	0	0
	08/12	*	*	0	0	2	8	1	5	753	2226	2	8
	08/14	*	*	0	0	4	21	23	129	1782	5466	19	109
	08/15	*	*	0	0	120	720	157	1394	14776	44320	94	749
	08/17	*	*	0	0	21	129	44	285	4905	14953	3	22

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/19	*	*	0	0	13	72	46	471	3326	10646	9	64
	08/20	*	*	0	0	0	0	0	0	140	421	1	7
	08/23	*	*	0	0	0	0	0	0	3322	10000	0	0
	TOTAL	44	98	503	4179	22143	117781	3483	20823	114478	331571	7496	36947
	AVG. WT.				8.31		5.32		5.98		2.90		4.93
25940	07/06	*	*	0	0	55	277	15	106	134	334	8	62
	07/07	*	*	10	104	309	1548	107	749	1157	2893	286	2001
	07/08	*	*	22	317	2027	10804	117	874	1487	4601	393	2243
	07/10	*	*	24	237	447	2233	472	3139	3379	8477	662	4508
	07/17	*	*	0	0	42	210	10	44	683	1925	38	222
	07/23	*	*	0	0	104	573	5	41	4157	12480	7	52
	TOTAL	8	8	56	658	2984	15645	726	4953	10997	30710	1394	9088
	AVG. WT.				11.75		5.24		6.82		2.79		6.52
25941	06/22	*	*	2	28	535	2676	0	0	0	0	0	0
	07/05	*	*	1	14	646	3875	0	0	15	37	2	13
	07/06	4	4	1	7	3000	16183	3	18	226	731	2	11
	07/07	7	7	40	427	7440	41695	30	156	1252	3809	11	53
	07/08	8	9	36	756	6605	36977	59	309	800	2603	7	34
	07/09	4	4	11	204	3218	18124	0	0	304	985	0	0
	07/10	7	7	4	27	2815	14379	35	242	693	2475	1	12
	07/11	*	*	7	77	1045	5038	219	1205	603	2061	0	0
	07/12	*	*	7	101	100	607	0	0	0	0	0	0
	07/13	5	5	11	154	1553	8312	12	76	1251	3883	21	146
	07/14	*	*	6	100	980	5123	0	0	270	808	0	0
	07/15	4	4	11	169	890	4643	18	109	631	2242	4	22
	07/16	*	*	3	42	791	4289	0	0	420	1438	0	0
	07/17	*	*	0	0	44	220	4	26	30	97	2	15
	07/18	*	*	6	66	1039	5268	3	21	374	1300	2	15
	07/20	4	4	23	310	929	5392	9	59	7936	25672	6	41
	07/21	*	*	7	130	580	3080	12	67	7797	28103	18	146
	07/22	*	*	7	129	326	1733	17	107	8575	27144	20	138
	07/23	*	*	3	42	134	747	4	20	5330	17820	12	100
	07/24	5	5	6	41	255	1370	59	379	5948	19723	80	536
	07/27	*	*	12	156	918	2556	5	39	3950	11250	13	81
	07/28	*	*	4	63	288	1375	2	15	4210	13394	25	208
	07/29	*	*	7	108	91	473	1	9	4478	14499	6	47
	07/30	*	*	0	0	211	1024	1	9	8989	29009	17	104
	07/31	*	*	0	0	65	370	5	38	6325	20504	25	165
	08/01	*	*	0	0	26	153	4	20	5150	16138	27	193
	08/02	*	*	0	0	19	101	5	25	3931	12489	21	144
	08/03	*	*	0	0	35	183	0	0	3892	12162	15	93
	08/04	*	*	0	0	28	137	1	5	3178	9858	16	94
	08/19	*	*	3	43	21	88	181	1536	5549	17761	100	780
	08/21	*	*	0	0	4	18	1	4	3810	11870	35	273

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/23	*	*	0	0	1	6	6	40	4601	14241	22	152
	08/24	*	*	0	0	6	30	18	120	7150	21864	89	611
	TOTAL	27	92	218	3194	34638	186245	714	4654	107668	345970	599	4227
	AVG. WT.				14.65		5.38		6.52		3.21		7.06
25942	06/20	*	*	3	75	290	1480	0	0	3	10	30	225
	06/22	4	4	9	109	1748	9187	6	35	130	490	246	1029
	06/23	4	4	7	41	1860	9193	1	10	111	305	65	308
	07/05	*	*	2	55	284	1564	129	621	1155	2841	210	886
	07/06	5	5	90	946	1833	10079	143	831	1347	4033	57	391
	07/07	9	9	83	681	4640	26571	361	1964	2478	6976	59	376
	07/08	10	10	77	626	3645	21537	274	1810	3102	8969	51	310
	07/09	8	8	140	1909	2436	12778	611	3518	2688	8369	82	389
	07/10	12	14	180	1442	5053	27918	620	3511	3623	10815	146	687
	07/11	*	*	0	0	84	480	38	231	193	537	9	21
	07/13	6	6	35	527	1979	10599	35	211	2181	7322	40	205
	07/14	10	11	25	306	3558	18909	85	654	4377	13297	122	868
	07/15	4	4	4	97	1894	9552	22	217	1285	4347	32	226
	07/16	*	*	6	85	772	4065	3	16	658	1996	0	0
	07/17	*	*	0	0	940	5000	0	0	570	2060	0	0
	07/21	*	*	8	83	225	1225	40	202	2150	6567	45	190
	07/22	*	*	12	300	1030	5132	0	0	740	2290	0	0
	07/23	*	*	4	77	175	943	1	8	3334	8474	10	75
	07/24	*	*	0	0	37	189	0	0	1475	3689	0	0
	07/27	*	*	4	68	273	1376	1	8	13935	39940	119	757
	07/28	*	*	20	370	331	1666	31	252	12353	37861	72	353
	07/29	*	*	15	125	252	1243	3	33	9386	32580	12	74
	07/30	*	*	0	0	120	825	0	0	2985	9324	0	0
	07/31	*	*	1	11	186	1267	12	77	11180	34478	6	42
	08/01	*	*	5	62	86	525	3	18	6155	19415	8	67
	08/02	*	*	1	27	56	270	1	8	3915	11998	20	90
	08/03	*	*	0	0	25	157	1	5	2400	6945	0	0
	08/04	*	*	3	49	36	207	14	99	6812	20735	1704	9571
	08/05	*	*	0	0	33	186	7	37	3498	11000	18	148
	08/06	*	*	0	0	0	0	0	0	34	135	1550	9446
	08/07	*	*	0	0	8	26	0	0	2970	9275	9	69
	08/08	*	*	0	0	0	0	0	0	48	143	3535	21109
	08/09	*	*	0	0	0	0	0	0	90	296	532	3724
	08/10	*	*	0	0	0	0	0	0	187	675	1277	8947
	08/11	*	*	0	0	0	0	0	0	4002	14409	20	146
	08/12	*	*	0	0	0	0	0	0	4220	13541	16	115
	08/13	*	*	0	0	0	0	0	0	94	340	946	6628
	08/15	*	*	0	0	14	74	4	33	7355	26490	1610	8602
	08/16	*	*	0	0	10	50	8	52	5173	15078	2405	12161
	08/17	*	*	0	0	6	25	8	58	4010	13554	82	430
	TOTAL	51	121	734	8071	33919	184298	2462	14519	132402	411599	15145	88665
	AVG. WT.				11.00		5.43		5.90		3.11		5.85

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
26215	09/25	*	*	0	0	0	0	400	2806	0	0	0	0
	TOTAL	*	*	0	0	0	0	400	2806	0	0	0	0
	AVG. WT.				0.00		0.00		7.02		0.00		0.00
26230	07/31	*	*	1	14	6	25	8	61	3802	11406	1	7
	08/10	*	*	0	0	0	0	16	110	6144	19662	4	28
	TOTAL	*	*	1	14	6	25	24	171	9946	31068	5	35
	AVG. WT.				14.00		4.17		7.13		3.12		7.00
26235	06/09	*	*	10	128	158	761	0	0	4	16	1	6
	06/10	*	*	6	30	154	685	0	0	4	10	16	80
	07/21	*	*	9	75	500	3167	21	95	144	470	24	110
	07/22	*	*	0	0	1563	9223	46	229	824	1730	18	122
	TOTAL	5	5	25	233	2375	13836	67	324	976	2226	59	318
	AVG. WT.				9.32		5.83		4.84		2.28		5.39
26240	07/20	*	*	34	353	709	4491	39	260	565	1813	79	487
	08/05	*	*	0	0	50	315	41	245	635	2026	78	634
	08/06	*	*	2	82	3	9	8	56	7548	26419	140	995
	TOTAL	6	6	36	435	762	4815	88	561	8748	30258	297	2116
	AVG. WT.				12.08		6.32		6.38		3.46		7.12
26245	07/20	*	*	4	45	1761	10732	41	270	300	917	87	487
	07/21	14	17	23	294	5374	34492	161	1002	2152	6535	195	1182
	07/22	12	12	32	377	5659	36346	185	1218	3381	11381	205	1014
	07/23	*	*	18	256	4451	27939	153	859	1520	4772	255	1524
	07/27	*	*	0	0	280	1728	22	101	651	2574	80	550
	07/28	*	*	8	124	2799	16157	317	2005	5610	20528	858	5865
	08/07	*	*	0	0	3	10	3	52	1450	4360	20	140
	08/08	*	*	0	0	7	27	0	0	4215	10115	15	68
	08/12	*	*	1	15	2	10	11	85	8012	24040	87	605
	TOTAL	31	42	86	1111	20336	127441	893	5592	27291	85222	1802	11435
	AVG. WT.				12.92		6.27		6.26		3.12		6.35
26250	07/06	*	*	5	50	135	654	1	7	12	34	10	52
	07/14	*	4	18	152	1526	7267	19	111	67	230	25	152
	07/15	*	*	6	38	195	978	7	42	16	55	9	56
	07/22	*	*	0	0	1168	7008	35	250	478	1434	57	402
	07/23	*	*	0	0	1262	6188	108	643	506	1621	77	434
	08/07	*	*	4	78	13	55	16	127	1175	3995	25	203
	TOTAL	7	11	33	318	4299	22150	186	1180	2254	7369	203	1299
	AVG. WT.				9.64		5.15		6.34		3.27		6.40
26255	07/06	*	*	39	280	145	965	0	0	10	27	11	56
	07/20	8	8	336	2735	3317	18586	35	184	2790	10870	150	1035
	07/21	34	36	559	4485	21055	129639	447	2832	15283	53656	720	4806

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/22	24	26	70	797	10100	59661	325	2170	10953	33856	510	3092
	07/23	*	*	2	20	99	599	6	29	180	610	10	71
	07/24	*	*	0	0	1043	8356	0	0	1293	2976	611	3858
	07/25	*	*	26	197	479	2789	60	378	1565	4935	105	639
	07/30	*	*	0	0	611	3059	72	581	1174	4229	69	484
	08/04	*	*	34	430	1562	8531	310	1949	6141	24580	867	5629
	TOTAL	50	80	1066	8944	38411	232185	1255	8123	39389	135739	3053	19670
	AVG. WT.				8.39		6.04		6.47		3.45		6.44
26260	08/04	*	*	0	0	1	3	0	0	12869	34747	78	505
	08/05	*	*	0	0	1	3	0	0	12919	36172	138	1035
	08/07	4	4	90	968	472	2570	795	4648	21221	68688	611	3639
	TOTAL	5	6	90	968	474	2576	795	4648	47009	139607	827	5179
	AVG. WT.				10.76		5.43		5.85		2.97		6.26
26265	07/06	5	5	18	145	2074	11642	36	230	287	879	138	660
	07/07	10	12	96	1088	3678	20283	56	330	691	2225	216	1262
	07/08	*	*	40	491	358	1984	13	78	85	317	43	284
	07/09	*	*	80	747	995	5802	33	197	370	990	77	488
	07/10	*	*	3	50	1260	6951	0	0	200	585	76	356
	07/13	*	*	2	17	965	5918	0	0	260	846	92	593
	07/15	*	4	22	212	7287	41848	123	685	1187	3922	194	1038
	07/21	6	6	16	123	1547	9101	275	1687	1465	4777	170	960
	07/22	*	*	1	3	127	715	27	156	3400	10544	283	1937
	07/27	4	4	1	10	241	1449	2	9	13307	46934	191	1127
	07/28	7	7	11	133	720	4263	17	106	33829	114873	1645	10733
	07/29	7	8	6	86	590	3007	3	14	45281	157930	1493	9799
	07/30	5	5	15	319	760	3817	67	394	44838	165774	1269	8622
	07/31	5	5	2	26	187	1106	27	140	34999	105310	488	3265
	08/01	7	10	7	98	831	4870	69	498	48493	169182	463	3839
	08/02	8	9	6	60	603	3053	164	1515	39200	143628	649	4793
	08/03	5	7	4	80	101	543	20	169	57271	170232	764	5948
	08/04	*	*	0	0	18	89	9	77	19895	64054	352	2363
	08/05	*	*	2	84	30	152	118	947	6739	23585	54	388
	08/06	*	*	10	140	36	220	222	1335	13496	40490	441	2655
	08/08	*	*	0	0	2	5	0	0	8668	39173	230	1847
	08/09	*	*	0	0	3	11	0	0	6895	31064	381	3066
	08/10	*	*	0	0	0	0	0	0	20772	62370	21	151
	08/11	*	*	0	0	0	0	1	5	7723	23192	87	609
	08/13	*	*	0	0	4	25	0	0	12697	38085	8	55
	08/14	*	*	0	0	0	0	0	0	11980	36063	3	19
	08/15	*	*	0	0	0	0	0	0	11013	33045	242	1700
	08/16	*	*	0	0	0	0	0	0	8630	25885	8	55
	TOTAL	27	108	342	3912	22417	126854	1282	8572	453671	1515954	10078	68612
	AVG. WT.				11.44		5.66		6.69		3.34		6.81

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
26270	07/30	*	*	1	18	166	996	5	41	3176	11434	54	382
	07/31	*	*	0	0	0	0	0	0	5000	13455	123	786
	08/01	*	*	0	0	2	12	0	0	1193	3118	16	127
	08/02	*	*	0	0	30	171	0	0	4927	15140	251	1710
	08/03	*	*	0	0	0	0	0	0	2215	6810	0	0
	08/05	*	*	0	0	0	0	0	0	927	3338	266	1867
	TOTAL	*	8	1	18	198	1179	5	41	17438	53295	710	4872
	AVG. WT.				18.00	5.95	8.20		3.06		6.86		
26275	06/12	7	7	31	441	3278	17020	0	0	0	0	494	2637
	06/13	17	18	208	2696	15879	82161	0	0	2	6	2265	12565
	06/14	12	16	218	2356	8544	45676	0	0	0	0	1244	7198
	06/15	8	8	58	765	3414	17548	0	0	0	0	469	2814
	06/16	*	*	16	301	2222	13831	0	0	2	8	56	476
	06/26	*	*	54	429	5679	28186	0	0	165	498	329	1599
	06/27	*	*	3	15	2045	10120	0	0	65	148	33	182
	06/28	5	5	13	177	4077	20197	0	0	179	387	187	943
	07/01	*	*	0	0	114	695	1	5	30	100	0	0
	07/09	8	8	23	405	5834	33698	23	136	1986	5523	198	1283
	07/10	14	14	138	2084	15155	86359	162	995	3760	10929	898	5167
	07/11	21	23	266	4118	13929	81623	344	2338	5193	14306	815	4923
	07/12	26	27	360	4954	15474	88263	251	1854	4229	12505	716	4427
	07/13	10	11	5	132	9703	56651	68	405	2049	6338	262	1569
	07/14	12	13	75	1296	16042	93645	193	1107	3131	9991	436	2634
	07/15	14	16	42	692	11367	66967	255	1603	3090	9964	512	3278
	07/16	17	17	173	2077	12484	74508	345	2211	5488	17369	470	2950
	07/17	*	*	63	601	2432	15139	122	819	1030	3741	213	1253
	07/27	4	4	38	512	1238	6592	145	1023	9858	34144	328	2389
	07/28	4	4	31	316	1285	7256	104	787	12845	45797	499	3330
	07/29	*	*	5	55	867	5632	75	614	5523	20444	139	982
	07/30	4	4	17	202	1491	8961	184	1487	11801	40120	356	2400
	07/31	4	4	3	25	402	2192	80	493	6603	23558	343	2246
	08/01	7	7	14	251	1116	5994	242	1299	21309	65539	504	3203
	08/02	*	*	5	80	230	1547	68	663	4370	13301	72	715
	08/03	*	*	0	0	65	289	10	78	6713	22218	179	1215
	08/05	*	*	3	46	96	501	118	942	7194	22205	358	2382
	TOTAL	66	225	1862	25026	154462	871251	2790	18859	116615	379139	12375	74760
AVG. WT.				13.44	5.64	6.76		3.25		6.04			
26280	06/12	8	8	32	411	3006	17308	0	0	4	14	117	713
	06/13	6	6	44	444	1549	8355	0	0	0	0	375	2056
	06/14	4	5	85	930	3185	16902	0	0	2	5	529	3040
	06/15	12	12	63	801	8408	45553	0	0	3	5	630	3948
	06/25	*	*	1	9	360	1656	0	0	14	30	30	129
	06/26	24	24	77	1045	14594	73836	7	44	567	1579	2301	11336
	06/27	27	27	155	2133	26342	132586	3	16	1592	4152	3638	19020
	06/28	*	*	1	53	771	3920	0	0	20	78	305	1526

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/09	9	9	40	462	2180	13181	24	143	773	2027	148	909
	07/10	5	5	47	574	1232	7459	29	173	438	1303	123	780
	07/11	10	10	53	696	3195	16788	100	422	832	2741	320	1919
	07/12	9	9	102	1270	6012	31746	145	883	1720	5590	654	3890
	07/13	6	6	40	441	4724	26915	98	677	1310	4211	386	2463
	07/14	9	9	86	906	8480	49463	220	1364	2373	7731	835	5093
	07/15	10	12	100	1204	9186	54351	359	2156	2546	8951	1151	7138
	07/16	8	8	74	984	4210	24495	357	1986	2589	7218	593	3493
	07/17	7	7	165	2119	10901	61193	342	2281	5237	16693	781	4614
	07/27	*	*	44	652	1040	6065	247	1972	8027	24499	426	2980
	07/28	5	5	159	2010	2142	11255	707	4419	17400	57424	1120	7801
	07/29	*	*	13	190	779	4582	83	575	5873	20528	226	1342
	07/30	6	7	73	958	3662	19871	407	3128	30152	105234	944	6501
	07/31	*	*	15	168	481	2654	108	666	6185	21659	349	2746
	08/01	7	8	41	482	2809	16463	576	3477	31374	120321	1652	12490
	08/02	12	12	30	549	1866	10692	605	3766	46779	170428	3109	19190
	08/03	8	8	14	281	1085	5989	369	2841	28970	95459	843	6853
	08/04	7	7	16	310	828	4954	501	3065	49319	161750	2093	13410
	08/05	8	8	13	230	1067	5359	257	2117	31263	105630	807	6203
	08/06	8	8	37	481	813	5164	1059	6834	19322	61484	468	3129
	08/07	6	6	111	1977	776	4370	965	7384	21783	77635	852	5827
	08/08	4	4	54	1143	409	2633	434	3403	13408	40014	425	2979
	08/09	4	5	436	6251	1123	7633	1834	19485	26345	74864	532	4243
	08/10	*	*	59	935	600	4025	370	3772	11550	32505	210	1770
	08/11	5	9	264	3313	4552	27900	2376	19413	86767	251053	1831	14156
	08/12	5	6	153	1729	3606	19598	1648	13606	51111	154130	1417	10428
	08/13	5	6	90	911	1193	6254	458	4009	12410	40381	398	2907
	08/15	6	6	63	941	420	2310	550	5248	13390	42300	192	1660
	08/16	5	5	14	289	252	1615	204	1968	4820	15713	115	931
	TOTAL	81	279	2864	38282	137838	755093	15442	121293	536268	1735339	30925	199613
	AVG. WT.				13.37		5.48		7.85		3.24		6.45
26285	08/05	*	*	0	0	4	23	0	0	1575	4958	39	303
	TOTAL	*	*	0	0	4	23	0	0	1575	4958	39	303
	AVG. WT.				0.00		5.75		0.00		3.15		7.77
26290	06/13	*	*	4	26	1265	6134	0	0	6	10	7	49
	06/14	*	4	75	816	3587	20118	0	0	3	9	261	1465
	06/15	*	*	16	157	1090	5307	0	0	8	15	72	356
	06/27	*	*	11	132	2837	14187	0	0	108	336	246	1407
	07/10	*	*	38	293	670	3586	27	165	224	636	64	472
	07/11	*	*	20	182	121	708	13	65	53	119	16	109
	07/12	4	4	136	903	1319	7810	95	540	427	1285	214	1352
	07/13	*	*	10	155	1970	10855	21	150	528	1675	186	1245
	07/14	5	5	119	1536	4463	24475	114	737	1311	3880	312	2043
	07/15	7	7	78	925	3884	20712	218	1575	996	3226	433	2765

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/16	8	9	192	1689	3172	18493	277	1825	1772	5879	542	3096
	08/01	*	*	1	5	224	1347	17	103	3366	13467	83	500
	08/04	7	7	1	16	77	450	29	218	58930	200422	2074	12926
	08/05	*	*	0	0	515	3095	0	0	10370	31110	430	2610
	08/06	*	*	0	0	4	20	0	0	7165	21485	81	490
	08/07	*	*	0	0	0	0	0	0	6756	20268	1500	10502
	TOTAL	20	50	701	6835	25198	137297	811	5378	92023	303822	6521	41387
	AVG. WT.				9.75		5.45		6.63		3.30		6.35
26295	06/12	*	*	5	80	1878	9267	0	0	0	0	96	497
	06/13	11	11	102	1177	11061	60048	2	16	6	14	577	3249
	06/14	7	7	100	1601	6874	34051	8	57	9	16	1329	8761
	06/15	8	9	95	1299	12867	65302	0	0	16	37	1413	9290
	06/16	*	*	47	726	4050	23682	2	35	0	0	1240	6330
	06/18	*	*	10	76	327	1600	0	0	6	21	69	363
	06/26	14	14	27	400	13529	66890	0	0	1182	3039	1966	11626
	06/27	25	26	103	1584	18011	89666	24	124	1494	4151	4613	25908
	06/28	4	4	77	637	4631	21951	12	59	667	1618	2033	10287
	07/09	11	11	237	1854	6370	39477	230	1327	2539	8664	802	4745
	07/10	16	17	600	5339	6250	33659	264	1563	2141	6262	1336	7711
	07/11	8	8	470	3499	3246	20154	196	1180	1125	3396	804	5020
	07/12	5	5	72	895	935	4986	106	678	433	1235	195	1095
	07/13	*	*	2	55	305	1703	27	166	150	451	35	209
	07/14	*	*	6	60	1268	7468	114	688	821	2530	335	2236
	07/15	*	4	35	322	1757	10421	277	1533	905	2671	303	1933
	07/16	*	*	51	283	1325	8149	197	1195	1013	3768	197	1200
	TOTAL	53	128	2039	19887	94684	498474	1459	8621	12507	37873	17343	100460
	AVG. WT.				9.75		5.26		5.91		3.03		5.79
PURSE SEINE TOTAL		324	12730	37802	451544	2972343	15224464	246317	1626495	31715891	97743160	449104	2671231
AVG. WT.					11.94		5.12		6.60		3.08		5.95

"*" Due to confidentiality this information may not be released.

Appendix P.3.

Set gillnet commercial salmon harvest by day, by statistical area, by species (in number and pounds) for the Kodiak Management Area, 1993.

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25311	06/09	7	8	0	0	3164	14934	0	0	3	9	1	5
	06/10	8	13	1	25	7228	35818	0	0	0	0	64	370
	06/14	7	8	0	0	3901	18601	0	0	22	92	15	79
	06/15	7	10	3	34	3503	16575	0	0	25	84	28	197
	06/16	12	19	12	104	2027	9808	0	0	40	139	107	631
	06/17	11	16	20	217	2219	10046	0	0	54	179	146	832
	06/18	12	15	10	105	2125	9975	1	8	73	241	103	618
	06/19	11	18	4	60	2045	9934	0	0	71	259	111	653
	06/20	11	13	9	105	2281	10987	0	0	131	522	137	815
	06/21	11	16	12	114	1316	6446	0	0	147	585	178	1015
	06/22	12	15	16	161	1639	7794	1	8	229	897	298	1759
	06/23	11	15	5	53	1309	6100	0	0	153	633	347	1988
	06/24	9	13	10	100	888	4247	3	23	131	495	170	892
	06/25	12	21	9	67	2093	9996	1	7	320	1257	437	2175
	06/26	12	15	13	95	1365	6740	0	0	291	1162	182	1039
	06/27	11	16	19	139	2459	12474	1	8	533	2048	232	1383
	06/28	11	16	9	97	1637	8047	0	0	531	2086	247	1573
	06/29	12	16	5	65	1280	6317	3	24	490	1847	251	1551
	06/30	11	18	8	78	1553	7836	9	63	723	2734	213	1346
	07/01	11	14	7	90	1623	7910	8	53	607	2766	275	1663
	07/02	11	16	3	22	1633	8049	9	71	806	3092	409	2440
	07/03	11	16	2	18	2269	11382	14	103	1712	6636	294	1735
	07/04	9	11	3	73	1796	9262	11	72	1420	5437	268	1673
	07/05	11	11	3	25	1919	9690	25	171	1923	6874	316	1853
	07/06	11	19	1	6	2745	13553	13	88	2282	8479	391	2472
	07/07	11	16	8	106	1897	9707	18	129	2217	8650	387	2287
	07/08	11	14	5	49	1321	7006	16	111	1760	6790	260	1580
	07/09	14	21	9	96	1804	9771	21	134	1562	5793	283	1785
	07/10	12	19	5	69	2175	11792	44	298	2928	10964	372	2242
	07/13	11	13	2	21	1853	9863	130	686	2242	8793	225	1459
	07/14	12	19	8	98	1989	10776	151	959	4510	17036	391	2665
	07/15	16	25	13	236	1570	9072	250	1669	5382	20545	602	3941
	07/16	12	15	6	101	1270	7007	198	1414	6550	25842	375	2469
	07/17	11	16	0	0	1611	8452	186	1177	8082	31467	395	2589
	07/20	11	11	1	12	607	3418	62	429	3288	12954	132	846
	07/21	12	16	8	134	1481	7986	286	1871	8276	32368	377	2372
	07/22	12	17	7	90	1716	9577	291	1896	9425	35770	546	3296
	07/23	11	18	2	26	2730	15110	319	2136	14565	52681	542	3394
	07/24	14	21	0	0	2519	14057	176	1233	18684	71333	605	3898
	07/27	11	13	4	40	1082	5827	93	611	8736	34397	431	2817
	07/28	16	25	1	26	2361	13216	261	1805	23729	92466	1118	7036
	07/29	13	18	3	44	2449	13307	256	1703	11916	42667	949	5634
	07/30	10	14	2	37	953	5181	571	3716	7245	24946	305	2135
	07/31	17	22	6	108	1236	6643	813	5404	18120	70441	789	5026
	08/01	12	17	1	22	553	3035	543	3583	6603	25227	299	1904

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/02	11	14	1	21	538	2998	403	2780	4226	15908	197	1287
	08/03	12	20	3	49	607	3335	553	3786	3952	14473	148	953
	08/04	12	15	3	46	1013	5528	344	2372	4675	17155	283	1799
	08/05	14	17	4	90	1041	5605	303	2080	5682	21997	338	2138
	08/06	11	13	1	27	1276	7563	229	1708	5881	22113	391	2558
	08/07	11	13	1	21	785	4403	222	1579	5282	20293	363	2379
	08/08	12	14	0	0	1580	8668	299	2141	8747	33147	294	1871
	08/09	11	13	1	23	971	5324	298	2094	7263	27813	153	959
	08/10	13	16	1	27	1914	10066	267	2067	9507	35432	249	1599
	08/11	11	18	0	0	1319	7226	376	2745	7537	28511	224	1366
	08/12	10	13	2	34	819	4614	144	1038	4200	15542	89	600
	08/13	7	9	0	0	379	2160	107	882	3693	12623	37	219
	08/14	13	15	1	18	565	3185	193	1493	4772	17602	56	407
	08/15	12	16	0	0	1203	6753	202	1552	5177	19408	79	493
	08/16	12	15	0	0	1400	8095	192	1460	7699	28380	64	428
	08/17	12	19	1	15	2344	12847	244	1824	9211	35159	68	430
	08/18	13	15	0	0	1197	6883	143	1130	4016	15564	36	235
	08/19	11	15	1	5	1352	7515	240	1813	5347	20613	45	306
	08/20	12	20	1	26	929	5017	223	1641	4516	16322	55	338
	08/29	*	*	0	0	183	1161	18	110	524	1911	7	51
	TOTAL	27	1009	296	3570	110609	572270	9784	67958	290444	1099649	17779	110548
	AVG. WT.				12.06		5.17		6.95		3.79		6.22
25312	08/02	*	*	0	0	0	0	5	48	85	315	15	91
	08/11	*	*	0	0	150	712	5	50	880	2641	10	62
	08/12	*	*	0	0	17	86	13	89	445	1334	7	52
	08/13	*	*	0	0	217	1084	14	95	2801	8403	15	90
	TOTAL	6	6	0	0	384	1882	37	282	4211	12693	47	295
	AVG. WT.				0.00		4.90		7.62		3.01		6.28
25313	06/09	8	9	0	0	3578	17924	0	0	8	25	5	30
	06/10	8	11	1	15	6067	29345	0	0	5	17	20	112
	06/11	*	*	4	36	925	4279	0	0	4	16	2	14
	06/14	*	*	3	48	1907	9545	1	6	23	86	2	11
	06/15	8	12	10	83	3344	16453	0	0	32	118	35	202
	06/16	5	7	0	0	687	3149	1	7	12	43	6	35
	06/17	5	8	0	0	325	1626	1	11	15	47	8	43
	06/18	5	8	4	41	779	3625	2	14	43	152	6	33
	06/19	4	7	8	87	337	1627	1	7	34	131	8	52
	06/20	4	8	10	66	442	2111	0	0	76	281	24	135
	06/21	5	8	12	163	515	2319	1	7	125	480	18	109
	06/22	4	4	4	27	254	1280	0	0	69	295	14	86
	06/23	4	8	4	41	513	2373	2	15	106	397	20	115
	06/24	4	6	17	164	261	1222	0	0	91	324	25	144
	06/25	4	7	6	37	352	1615	0	0	116	427	10	66
	06/26	5	7	7	70	341	1646	0	0	115	460	17	94

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/27	5	8	11	106	522	2471	0	0	457	1661	74	419
	06/28	4	8	6	61	430	2116	1	9	190	678	108	601
	06/29	5	8	11	93	490	2289	2	14	272	959	54	303
	06/30	4	8	19	150	333	1586	0	0	161	583	50	314
	07/01	6	9	7	66	302	1410	1	9	161	565	35	209
	07/02	5	8	7	62	329	1653	7	41	310	1107	50	270
	07/03	5	7	0	0	298	1363	3	18	476	1707	59	316
	07/04	4	6	7	42	518	2414	1	5	542	1961	35	211
	07/05	5	5	5	61	816	3875	6	39	900	3255	88	505
	07/06	4	9	11	109	602	3005	4	24	710	2566	83	486
	07/07	4	8	9	68	551	2710	10	58	628	2260	110	653
	07/08	4	8	19	181	559	2730	3	15	870	3056	113	653
	07/09	9	13	10	93	610	3059	17	116	978	3478	180	1028
	07/10	5	9	3	25	378	2001	10	57	711	2594	121	735
	07/13	5	5	7	50	409	2157	6	43	659	2584	36	211
	07/14	6	12	19	349	839	4245	26	184	2335	8303	165	1015
	07/15	5	8	4	22	194	988	25	162	975	3658	86	525
	07/16	5	8	3	30	143	754	29	203	683	2579	58	332
	07/17	5	7	2	11	255	1316	39	223	1383	5142	111	673
	07/18	*	*	0	0	16	80	2	14	254	914	30	180
	07/20	*	4	0	0	78	427	6	33	974	3496	22	126
	07/21	5	8	0	0	399	2092	18	121	3857	14125	160	940
	07/22	6	9	2	20	429	2228	18	116	2776	10049	221	1350
	07/23	5	10	1	12	600	3448	63	439	6244	23033	374	2253
	07/24	5	9	1	14	516	2703	23	152	5482	20761	291	1969
	07/27	4	4	1	13	231	1255	32	193	2592	9401	143	888
	07/28	6	7	0	0	709	3649	101	687	7034	26873	375	2283
	07/29	7	8	0	0	717	3827	21	144	2824	10676	251	1559
	07/30	7	14	0	0	856	4549	115	824	7283	28334	350	2300
	07/31	5	10	1	21	223	1148	62	421	4616	18461	191	1244
	08/01	6	10	1	8	195	967	93	626	4514	17733	243	1449
	08/02	5	8	1	19	68	349	34	205	1668	6425	129	808
	08/03	5	8	0	0	108	573	31	221	1630	6356	132	855
	08/04	4	9	1	7	124	650	31	219	1270	4957	97	605
	08/05	*	5	0	0	177	807	43	317	728	2773	33	193
	08/06	4	8	0	0	223	1119	46	411	1419	5485	110	667
	08/07	4	6	2	48	189	925	82	562	1185	4621	97	573
	08/08	4	8	0	0	168	841	61	424	1571	6004	53	299
	08/09	5	8	0	0	251	1275	59	405	2253	8791	39	261
	08/10	4	7	2	31	275	1412	58	415	2973	11558	87	524
	08/11	5	8	1	26	175	948	103	740	2049	7906	88	558
	08/12	8	8	1	29	646	3610	109	787	7199	25934	122	726
	08/13	6	9	1	26	156	833	23	168	3244	11169	32	213
	08/14	5	7	1	23	25	136	59	399	725	2859	27	136
	08/15	4	6	0	0	117	632	78	572	1734	6565	23	122
	08/16	4	7	0	0	461	2384	33	221	2737	10376	45	262

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/17	4	7	0	0	760	3797	34	237	2314	8698	17	104
	08/18	4	7	0	0	590	2992	80	578	2608	9731	28	169
	08/19	5	8	0	0	203	1014	44	311	2211	8210	29	156
	08/20	4	8	0	0	259	1342	93	643	3191	12210	26	155
	TOTAL	18	505	267	2754	39149	194293	1854	12892	105434	396479	5701	34667
	AVG. WT.				10.31		4.96		6.95		3.76		6.08
25314	06/09	6	6	7	121	784	4442	1	6	1	4	3	17
	06/10	8	10	24	253	5616	27466	0	0	48	188	144	911
	06/14	6	6	3	34	1276	6186	0	0	12	37	15	81
	06/15	8	12	12	148	2563	12682	1	6	36	124	100	588
	06/16	8	10	24	294	1079	5090	0	0	38	115	141	811
	06/17	8	8	22	209	758	3648	1	7	46	141	83	500
	06/18	7	7	42	458	472	2289	0	0	115	375	176	1098
	06/19	8	8	54	436	1176	5570	0	0	151	468	108	690
	06/20	8	8	77	787	1312	6330	0	0	197	778	182	1131
	06/21	8	8	64	660	921	4517	1	8	188	751	116	724
	06/22	8	8	38	329	1131	5268	0	0	136	562	287	1608
	06/23	8	8	32	381	1153	5688	1	7	194	789	243	1428
	06/24	8	8	33	329	572	2976	1	9	191	777	299	1788
	06/25	8	8	27	270	611	3091	1	8	479	1890	266	1626
	06/26	8	8	26	310	635	3292	2	13	482	1935	203	1211
	06/27	8	8	40	460	801	4164	4	30	509	2025	250	1551
	06/28	8	8	29	303	1042	5387	2	14	511	2048	393	2384
	06/29	8	8	27	354	926	4754	6	48	513	2063	380	2388
	06/30	8	9	28	305	925	4747	1	7	698	2720	387	2201
	07/01	7	7	23	367	615	3141	6	49	441	1741	325	2016
	07/02	8	8	9	127	772	3900	12	100	539	2138	398	2316
	07/03	8	9	20	266	1457	7447	19	142	2235	8859	469	2834
	07/04	8	9	6	81	1754	8825	14	88	2462	9835	398	2512
	07/05	8	8	6	106	2387	11964	10	68	3561	14373	654	4157
	07/06	9	10	10	184	4869	25292	16	95	2284	9097	743	4388
	07/07	8	9	15	162	4905	25213	22	161	1737	6903	700	4223
	07/08	8	8	20	297	2658	13576	24	155	1452	5771	591	3520
	07/09	8	8	8	194	2012	10060	18	132	919	3528	355	2058
	07/10	8	8	14	192	3218	16730	25	175	2279	9044	468	2909
	07/13	8	8	2	12	881	4825	35	248	1201	4875	139	860
	07/14	8	8	7	110	4875	25378	233	1398	4101	16390	687	4252
	07/15	9	9	3	63	1590	8084	73	439	2115	8464	298	1825
	07/16	7	7	1	6	681	3647	75	510	2285	9048	202	1257
	07/17	7	8	3	42	1026	5350	87	555	4795	19200	417	2563
	07/20	7	7	0	0	224	1260	24	167	1850	7413	103	646
	07/21	8	8	3	108	779	4329	283	1903	8961	35724	410	2640
	07/22	7	7	0	0	837	4750	328	2263	7883	31402	350	2127
	07/23	8	15	3	89	1935	11116	308	2158	14293	58999	640	4044
	07/24	8	15	1	19	1570	8471	164	1144	13266	53626	601	3681

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/27	7	7	0	0	441	2360	100	708	5714	22640	206	1359
	07/28	10	18	0	0	1212	6252	381	2640	16584	66911	729	4377
	07/29	8	16	5	111	2131	11881	284	1980	10122	40728	775	4686
	07/30	8	14	1	20	741	3865	222	1551	9163	36313	550	3074
	07/31	*	*	0	0	55	279	28	190	2145	8576	57	342
	08/01	7	7	4	91	247	1296	345	2412	5647	22608	361	2105
	08/02	8	8	0	0	180	975	269	1880	4767	19037	208	1263
	08/03	8	8	0	0	164	856	120	854	4390	17932	185	1143
	08/04	7	7	3	52	368	1964	159	1103	5843	23388	251	1475
	08/05	6	6	3	42	694	3625	182	1296	5282	21110	303	1834
	08/06	8	9	1	25	1432	7237	170	1207	5432	21459	535	3283
	08/07	8	8	0	0	992	4995	167	1204	4883	19589	591	3387
	08/08	7	7	0	0	484	2496	120	836	4363	17342	242	1475
	08/09	8	9	4	112	383	2065	316	2233	7841	30934	262	1585
	08/10	8	8	7	177	446	2283	423	3085	7685	30724	198	1208
	08/11	8	8	3	56	619	3219	411	2858	6964	28008	328	1870
	08/12	8	15	2	29	564	3103	541	3841	9704	39091	246	1402
	08/13	8	14	0	0	333	1842	171	1216	5440	20943	81	546
	08/14	8	8	1	20	121	625	68	483	2107	8406	27	169
	08/15	8	9	9	80	318	1772	338	2275	4365	16942	41	259
	08/16	7	7	0	0	825	4630	271	1907	5168	20656	87	520
	08/17	7	7	1	20	989	5226	128	900	4981	20010	58	346
	08/18	6	6	1	15	618	3302	86	611	3813	15223	34	194
	08/19	6	6	0	0	255	1394	198	1423	3530	14078	37	228
	08/20	6	6	2	44	561	2906	273	1942	5913	23622	44	272
	TOTAL	14	552	810	9760	77971	401393	7569	52748	235050	940490	19160	115966
	AVG. WT.				12.05		5.15		6.97		4.00		6.05
25331	06/09	8	8	3	55	2541	12220	0	0	5	18	27	151
	06/10	10	17	3	57	8281	39123	0	0	17	61	76	443
	06/11	*	*	0	0	366	1722	0	0	0	0	0	0
	06/14	8	9	1	7	3244	15553	0	0	33	100	47	270
	06/15	12	18	26	305	7349	35895	0	0	87	270	135	789
	06/16	10	10	20	145	4491	21618	1	5	51	153	85	537
	06/17	10	10	29	317	3972	19463	1	4	73	220	120	735
	06/18	9	9	13	104	3446	16981	0	0	81	261	103	729
	06/19	10	11	18	198	3299	16191	1	6	146	504	188	1192
	06/20	10	10	17	165	2607	12845	0	0	179	621	193	1278
	06/21	10	10	13	144	2981	15034	3	18	250	943	175	1240
	06/22	10	10	20	214	4514	22666	2	14	312	1185	326	2080
	06/23	10	10	13	126	3144	15657	1	8	165	621	170	1117
	06/24	10	10	19	208	2139	10467	2	18	197	775	224	1392
	06/25	10	10	34	306	1883	9034	0	0	268	1032	134	960
	06/26	10	10	23	185	3053	15173	0	0	422	1601	215	1253
	06/27	10	10	31	286	2394	12027	1	8	874	3243	334	2206
	06/28	10	10	22	324	1438	7137	7	45	775	2776	274	1982

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/29	9	9	21	272	1415	7186	5	45	673	2417	302	1874
	06/30	10	12	24	205	1721	8804	2	20	976	3385	343	2204
	07/01	10	18	19	182	2764	14365	19	144	1271	4489	497	3362
	07/02	15	15	20	331	2833	14410	15	106	1048	3723	387	2435
	07/03	15	17	13	145	3712	19207	22	152	1450	4951	335	2092
	07/04	15	18	10	133	3871	20357	24	158	1830	6432	614	3762
	07/05	16	26	23	327	3101	16329	39	271	1790	6354	597	3915
	07/06	16	22	15	201	4227	24125	32	221	1359	4966	482	3264
	07/07	13	24	19	280	2565	14704	45	323	1208	4292	465	3093
	07/08	11	16	2	24	1408	7805	32	233	969	3652	289	1986
	07/09	14	20	7	99	2429	13682	35	247	1368	4878	314	2085
	07/10	12	20	12	199	2391	13712	67	441	1337	4758	225	1561
	07/13	8	8	2	34	917	5218	34	248	1139	3952	131	934
	07/14	9	10	7	91	1759	10174	151	1074	3342	12235	389	2639
	07/15	10	18	6	79	1395	8158	183	1315	3359	12281	361	2337
	07/16	10	19	13	162	1323	7476	241	1552	4194	15599	386	2522
	07/17	11	19	10	200	1194	6756	296	1988	4708	17133	408	2777
	07/20	10	10	4	72	376	2142	122	883	2288	8336	131	903
	07/21	10	20	11	154	807	4579	541	3678	8489	31577	396	2595
	07/22	9	16	10	223	1020	5702	468	3613	10250	38253	405	2656
	07/23	9	11	2	25	1374	7965	378	2632	13314	50055	570	3864
	07/24	10	17	8	97	1323	7631	525	3572	14674	55483	577	3938
	07/27	9	9	0	0	833	4790	149	1260	12143	46220	390	2570
	07/28	10	19	5	104	4162	24940	403	2840	20786	80392	1393	9317
	07/29	12	19	4	88	6110	37309	398	2827	10127	38000	1795	11251
	07/30	10	18	4	100	2327	13271	530	3532	8340	31884	690	4561
	07/31	10	17	9	168	790	4534	672	4876	11014	40534	468	3156
	08/01	9	18	19	278	529	2937	712	5455	9073	33626	414	2719
	08/02	10	16	13	214	400	2195	858	6336	5923	21971	470	2963
	08/03	9	17	10	216	327	1833	668	4794	5422	20030	268	1712
	08/04	10	17	9	145	982	5825	359	2630	8467	31655	410	2575
	08/05	9	17	2	52	978	5388	241	1720	8317	30682	350	2320
	08/06	9	15	1	30	1007	5531	213	1549	7502	27431	260	1624
	08/07	10	16	1	8	1270	6981	181	1313	8360	30731	472	2792
	08/08	10	17	0	0	918	5012	209	1630	8419	31448	267	1649
	08/09	10	18	0	0	793	4208	199	1468	6550	24162	136	867
	08/10	10	19	1	14	776	4372	269	2190	6635	24984	155	965
	08/11	9	16	1	24	563	3194	210	1647	4840	18051	145	865
	08/12	10	17	3	28	1182	6613	498	3774	8494	31530	185	1163
	08/13	10	16	0	0	1231	6972	202	1483	6780	25991	108	659
	08/14	10	16	2	41	450	2497	178	1404	2993	10996	55	335
	08/15	9	17	1	12	669	3771	202	1669	4536	14919	117	569
	08/16	9	17	0	0	2003	10869	270	2143	7232	27234	103	654
	08/17	8	13	0	0	1049	5547	443	3525	6240	23511	54	359
	08/18	7	7	0	0	413	2414	117	925	3078	11580	18	110
	08/19	8	14	3	56	413	2292	437	3662	4783	17240	41	248

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/20	7	10	0	0	643	3613	271	2304	5359	20920	41	257
	TOTAL	22	943	651	8259	135885	716201	12184	89998	276384	1029307	20235	131412
	AVG. WT.				12.69		5.27		7.39		3.72		6.49
25335	06/09	*	*	1	11	55	267	0	0	2	7	4	21
	06/10	5	5	0	0	354	1711	0	0	2	7	29	160
	06/14	9	9	0	0	1357	6492	0	0	24	84	38	208
	06/15	10	11	4	56	2481	11845	0	0	46	167	123	584
	06/16	9	16	2	22	1492	7362	0	0	33	120	78	439
	06/17	9	9	3	30	1924	9303	0	0	25	88	42	253
	06/18	10	11	2	28	927	4559	0	0	35	120	44	263
	06/19	8	8	5	93	663	3307	0	0	52	195	62	342
	06/20	10	11	7	85	1386	6906	0	0	93	339	50	316
	06/21	10	11	5	49	2118	10286	1	6	130	468	76	433
	06/22	10	10	3	27	3235	15484	0	0	136	486	80	458
	06/23	10	12	1	9	2669	12981	2	10	107	380	132	840
	06/24	9	10	2	46	1579	7804	1	9	132	485	48	262
	06/25	10	19	0	0	1590	7670	0	0	124	428	58	356
	06/26	9	9	2	21	1320	6425	3	18	115	405	78	439
	06/27	8	12	1	22	612	2891	2	10	189	627	88	478
	06/28	8	11	1	8	980	4899	6	43	224	744	104	597
	06/29	9	11	1	9	1198	5825	5	27	310	1125	66	375
	06/30	8	9	4	25	715	3570	1	6	418	1432	100	542
	07/01	9	11	1	22	1121	5616	4	24	387	1289	194	1060
	07/02	8	10	0	0	1171	5861	2	11	153	531	33	196
	07/03	4	4	0	0	167	929	2	12	116	400	14	87
	07/04	5	5	1	20	280	1369	0	0	151	548	15	87
	07/05	6	9	0	0	742	3623	5	28	1074	3717	74	420
	07/06	11	15	1	7	1592	8479	0	0	438	1597	105	641
	07/07	10	11	1	20	2347	13116	13	86	286	1000	86	537
	07/08	11	22	1	6	4399	25837	6	36	295	1038	94	573
	07/09	11	12	0	0	1135	6592	4	26	185	646	42	269
	07/10	10	10	1	8	1653	9507	5	32	344	1223	82	491
	07/13	11	11	0	0	1622	9565	26	168	370	1344	56	372
	07/14	13	14	4	68	1997	12240	37	243	942	3258	156	953
	07/15	11	12	2	56	2312	13770	29	178	866	2916	221	1346
	07/16	11	11	0	0	1878	11255	69	428	948	3223	174	1060
	07/17	11	12	3	70	1631	9977	147	901	1454	4926	171	1059
	07/20	9	9	0	0	454	2789	61	392	691	2540	44	265
	07/21	11	11	1	21	879	5430	227	1425	1694	6034	104	638
	07/22	12	13	0	0	674	4187	120	742	2042	7420	108	637
	07/23	12	12	0	0	1279	7948	103	640	3097	11516	130	772
	07/24	12	13	1	14	1741	10399	55	369	2576	9339	214	1231
	07/27	9	10	0	0	454	2548	35	229	4907	17270	313	1668
	07/28	11	12	0	0	1603	9234	128	811	8472	30236	700	3860
	07/29	11	14	0	0	4558	27573	74	460	3962	13883	731	4248

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/30	11	23	2	38	1464	8948	169	1143	3872	13934	488	2621
	07/31	11	16	1	33	687	4080	308	2249	5574	18989	274	1535
	08/01	11	11	1	37	508	2833	235	1562	4846	17347	238	1327
	08/02	11	11	0	0	209	1149	186	1233	2916	10008	142	795
	08/03	11	22	3	61	151	796	209	1417	2950	10439	127	752
	08/04	11	12	1	13	294	1611	117	830	3486	11992	179	1054
	08/05	10	12	0	0	418	2325	108	764	2505	8898	139	799
	08/06	8	11	0	0	296	1622	112	722	1718	5885	103	557
	08/07	9	10	0	0	438	2432	34	237	1770	6356	185	1019
	08/08	12	12	1	16	577	3099	130	921	2819	9695	263	1504
	08/09	12	18	0	0	437	2307	135	954	3417	11621	194	1093
	08/10	11	12	1	23	242	1293	100	679	2464	8575	130	728
	08/11	12	14	0	0	267	1381	95	624	3030	10081	125	699
	08/12	11	18	0	0	284	1501	98	573	2559	8834	80	422
	08/13	9	10	0	0	112	588	29	205	1794	6030	29	177
	08/14	10	15	2	54	222	1162	231	1707	2632	8883	85	496
	08/15	8	8	0	0	119	648	89	656	1611	5586	29	159
	08/16	7	12	0	0	263	1403	56	379	2405	8350	57	315
	08/17	7	9	0	0	272	1427	74	497	2185	7824	44	248
	08/18	5	5	0	0	51	273	14	60	424	1525	3	17
	08/19	6	7	1	4	155	788	41	282	1084	3847	8	56
	08/20	6	6	1	17	90	460	55	364	958	3363	11	64
	08/21	*	*	0	0	28	151	19	136	241	969	1	6
	TOTAL	14	735	75	1149	69928	379708	3817	25564	94907	332632	8095	46279
	AVG. WT.				15.32				6.70		3.50		5.72
25410	06/09	7	7	13	255	3439	16324	0	0	3	12	20	137
	06/10	10	12	9	135	7366	34406	0	0	9	36	123	735
	06/14	8	8	11	156	8195	38390	0	0	93	367	327	1788
	06/15	9	11	45	692	6156	28809	0	0	59	231	323	1843
	06/16	9	11	43	495	5506	25485	0	0	44	179	405	2213
	06/17	6	7	19	236	2698	12489	0	0	46	182	148	847
	06/18	8	8	6	85	1018	4784	0	0	22	89	68	370
	06/19	8	10	24	251	4236	20016	0	0	103	388	195	1073
	06/20	8	10	23	293	4116	19441	0	0	109	403	288	1676
	06/21	11	16	26	285	4297	20281	1	9	85	323	245	1331
	06/22	8	10	95	863	4976	24432	0	0	186	757	266	1494
	06/23	10	12	11	155	4912	23026	3	23	216	792	362	2047
	06/24	6	7	10	104	2640	12656	1	6	74	266	45	221
	06/25	9	10	19	141	3316	15831	1	7	300	1089	101	556
	06/26	7	9	30	241	2630	12397	5	30	298	1141	186	1026
	06/27	12	18	19	210	14696	71482	1	8	433	1676	513	2731
	06/28	11	16	13	86	8957	42525	0	0	349	1353	279	1658
	06/29	11	14	35	347	7511	36045	3	18	719	2714	459	2516
	06/30	12	15	20	199	6092	29040	13	93	1419	5204	342	1840
	07/01	9	12	73	503	3011	15096	14	85	906	3404	202	1195

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/02	9	12	55	393	2842	13506	25	167	628	2205	219	1264
	07/03	8	8	17	128	3886	19842	25	168	610	2224	169	895
	07/04	12	17	35	307	8308	44614	23	156	1422	5317	360	2101
	07/05	9	12	17	154	3067	15854	14	91	1396	5185	393	2278
	07/06	9	12	28	236	2822	14657	22	141	1732	6489	330	1944
	07/07	17	22	12	108	2887	14953	85	523	3812	14633	446	2669
	07/08	9	13	10	133	1579	7945	141	837	2457	9072	208	1201
	07/09	9	9	13	131	1792	8849	125	793	2120	7923	180	1024
	07/10	8	10	4	59	2146	11397	76	442	2632	9763	216	1274
	07/13	8	8	5	45	1378	7385	12	70	3487	13408	162	1014
	07/14	12	17	3	60	9949	61875	52	353	6520	25435	650	4139
	07/15	10	13	3	45	3948	24407	79	494	3745	14408	329	2013
	07/16	9	10	6	69	1270	6902	117	805	4475	17008	425	2584
	07/17	8	8	3	47	889	4765	87	587	2892	11009	174	1063
	07/20	6	6	2	40	816	4780	82	548	1079	4073	77	426
	07/21	8	11	3	30	1069	6105	495	3478	2296	9000	238	1354
	07/22	11	13	3	35	2874	17362	824	5600	6554	25062	996	5596
	07/23	11	17	4	62	4498	26858	703	4685	7199	27666	1108	6394
	07/24	14	19	0	0	6146	35913	300	2105	10109	38691	1201	6940
	07/27	8	8	0	0	2387	13135	51	366	5699	21482	312	1837
	07/28	10	16	2	70	3793	21115	109	771	15242	58428	660	3720
	07/29	11	14	5	148	2674	14854	366	2583	10643	40992	695	4035
	07/30	9	9	3	66	956	5060	286	2020	5134	19687	181	1101
	07/31	8	9	0	0	1164	6170	193	1336	7998	29887	185	1166
	08/01	9	11	1	18	899	4838	480	3151	7468	28054	112	664
	08/02	12	13	3	58	944	5050	367	2452	7239	27130	151	837
	08/03	8	9	0	0	940	5001	202	1316	5306	19905	112	653
	08/04	11	14	3	70	3352	17568	288	1749	10658	39730	190	1147
	08/05	10	14	0	0	3279	17651	169	1151	13634	50456	289	1756
	08/06	9	14	3	61	2287	12451	422	2924	9677	36046	279	1649
	08/07	11	20	2	20	3067	16529	354	2569	13197	48824	516	2945
	08/08	11	13	1	6	733	3906	164	1141	6562	24690	165	939
	08/09	9	11	1	15	1161	6334	199	1392	5472	20205	59	355
	08/10	9	12	1	30	1087	6041	89	645	6421	24070	109	662
	08/11	10	15	3	69	1127	6115	162	1184	9527	35652	103	627
	08/12	13	16	7	151	833	4470	382	2757	8027	29608	120	763
	08/13	10	12	2	25	484	2656	197	1333	4625	17170	30	196
	08/14	6	8	2	20	564	3135	165	1246	2634	9572	24	152
	08/15	9	12	0	0	1709	9532	139	1013	4335	16203	40	255
	08/16	8	12	0	0	1877	10134	415	3200	3368	12485	44	277
	08/17	7	8	1	11	1696	9222	243	1768	3006	10987	26	157
	08/18	7	10	0	0	2159	11406	338	2399	1933	7420	20	123
	08/19	9	10	0	0	2116	11592	217	1600	3159	11528	20	124
	08/20	8	8	4	59	1929	10506	290	2315	1594	6117	25	159
	TOTAL	31	758	811	8711	211151	1085395	9616	66703	243196	915505	17245	99769
	AVG. WT.				10.74		5.14		6.94		3.76		5.79

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25420	06/09	6	7	3	41	827	4194	0	0	36	149	25	150
	06/10	6	6	12	188	2315	11537	0	0	71	291	87	526
	06/14	9	10	5	34	972	4715	0	0	81	311	63	344
	06/15	11	11	9	69	1368	6679	1	7	195	757	139	844
	06/16	9	9	14	105	402	1841	0	0	97	353	69	434
	06/17	11	11	42	453	482	2315	0	0	178	716	60	361
	06/18	13	13	16	171	1712	8090	1	7	124	471	71	407
	06/19	10	10	14	119	389	1970	0	0	108	411	35	230
	06/20	10	10	15	119	955	4649	0	0	154	591	75	489
	06/21	11	18	8	51	1378	6591	3	23	524	1936	102	655
	06/22	12	12	11	89	1192	5820	1	9	330	1216	84	503
	06/23	11	20	2	15	1020	4939	0	0	217	802	101	595
	06/24	16	18	42	334	4085	19198	0	0	644	2713	219	1231
	06/25	11	11	7	66	617	2932	0	0	724	2736	55	348
	06/26	12	12	4	31	440	2099	0	0	671	2460	73	452
	06/27	10	13	5	50	1139	5756	1	8	336	1249	99	608
	06/28	12	19	4	38	4548	22238	1	7	930	3412	276	1700
	06/29	10	10	3	52	2452	11993	2	17	1005	3626	318	1749
	06/30	9	11	5	61	1104	5409	0	0	1086	4164	172	1026
	07/01	11	11	2	11	1448	7217	4	28	829	3150	190	1098
	07/02	12	13	5	57	943	4631	6	35	1089	4166	207	1388
	07/03	13	13	18	182	1125	5941	6	41	1568	6010	167	973
	07/04	11	13	2	27	2967	15353	1	6	2073	7891	230	1429
	07/05	10	10	7	72	2518	13340	8	64	2847	10623	423	2609
	07/06	12	21	6	67	1537	8134	4	28	2027	7730	321	1742
	07/07	12	12	9	202	1573	8674	3	21	2077	8025	251	1495
	07/08	10	11	4	55	651	3451	0	0	1223	4688	81	497
	07/09	11	11	2	31	797	4430	0	0	2057	7793	114	677
	07/10	11	11	5	150	1004	5422	4	31	4036	15589	159	959
	07/13	10	10	2	27	1540	7942	3	21	4425	17292	140	905
	07/14	10	19	3	66	2091	12689	5	36	5221	20104	211	1319
	07/15	12	17	2	46	4011	25470	47	341	6137	23715	400	2496
	07/16	10	11	3	65	1470	8698	35	266	6003	23423	317	1880
	07/17	10	10	8	167	861	5362	29	215	5420	21161	195	1172
	07/20	9	9	1	8	812	5152	14	106	2756	10613	75	473
	07/21	11	20	1	24	884	5286	39	293	6875	26369	124	781
	07/22	9	9	2	42	412	2496	74	518	5983	23196	155	916
	07/23	11	19	1	17	3269	20421	187	1254	9659	37992	731	4418
	07/24	10	17	0	0	2365	14496	56	399	7824	30524	664	3852
	07/27	10	12	1	36	944	5270	51	397	10028	38078	728	3987
	07/28	10	19	1	6	577	3220	89	570	12938	50019	619	3454
	07/29	12	13	1	32	719	4137	117	845	14020	54374	568	3328
	07/30	11	12	1	9	372	1917	132	875	7348	27651	271	1567
	07/31	13	14	3	27	298	1601	243	1670	11451	44341	432	2592
	08/01	14	15	3	72	407	2124	253	1772	9613	37218	398	1703
	08/02	7	7	3	66	120	637	78	555	6164	23971	209	1258

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/03	9	9	2	50	171	939	135	947	6656	25588	228	1307
	08/04	12	19	2	56	479	2578	128	874	9238	35633	266	1619
	08/05	11	19	2	30	745	3909	142	969	10512	39642	304	1777
	08/06	11	19	1	29	972	5254	217	1499	13516	51167	439	2522
	08/07	8	15	1	7	841	4598	147	990	7742	28900	309	1788
	08/08	11	18	0	0	958	5041	108	758	8728	32648	100	626
	08/09	10	17	0	0	573	2991	112	786	6386	23812	47	288
	08/10	10	11	0	0	280	1479	90	649	5790	22047	46	294
	08/11	10	16	1	21	237	1291	155	1133	5680	21506	62	370
	08/12	6	8	4	46	135	720	109	741	4816	18150	70	434
	08/13	10	17	1	9	163	862	71	496	3824	14232	50	322
	08/14	10	11	5	78	42	234	101	791	2450	9214	36	219
	08/15	9	16	4	46	82	464	101	775	4159	15800	38	226
	08/16	8	13	0	0	192	1048	76	576	5015	19167	19	132
	08/17	9	9	0	0	208	1070	53	399	3530	13264	9	64
	08/18	8	13	0	0	140	755	18	135	2763	10058	13	83
	08/19	6	6	0	0	110	576	47	348	4532	16763	25	175
	08/20	6	7	0	0	281	1505	47	359	4261	15889	33	226
	TOTAL	24	833	340	4022	69721	371790	3355	23690	268800	1027550	12597	74092
	AVG. WT.				11.83		5.33		7.06		3.82		5.88
25430	06/09	*	*	1	12	71	365	0	0	12	40	4	30
	06/10	*	*	5	38	706	3519	0	0	18	69	38	271
	06/14	*	*	1	6	27	157	0	0	13	50	15	103
	06/15	*	*	6	35	138	663	0	0	37	128	29	169
	06/16	*	*	3	18	19	97	0	0	11	43	18	101
	06/17	*	*	3	31	35	166	0	0	15	54	6	42
	06/18	*	*	5	71	92	409	0	0	63	238	9	59
	06/19	*	*	2	14	220	1063	0	0	86	383	14	82
	06/21	*	*	0	0	188	940	0	0	80	305	14	101
	06/22	*	*	1	6	337	1713	1	5	60	254	27	160
	06/23	*	*	0	0	103	524	0	0	66	280	10	62
	06/24	*	*	1	18	39	215	0	0	263	989	42	256
	06/25	*	*	1	24	175	890	1	6	261	996	52	311
	06/26	*	*	1	7	99	503	2	12	188	850	44	252
	06/27	*	*	1	5	215	1146	0	0	213	860	31	188
	06/28	*	*	1	32	230	1113	2	15	317	1360	83	540
	06/29	*	*	0	0	63	324	0	0	220	866	41	278
	06/30	*	*	1	5	64	325	1	5	118	602	62	404
	07/01	*	*	0	0	122	636	4	30	305	1203	132	746
	07/02	*	*	1	10	106	567	1	8	455	1772	91	504
	07/03	*	*	1	27	427	2298	2	16	869	3431	93	573
	07/04	*	*	3	31	175	923	2	12	721	2793	40	261
	07/05	*	*	1	11	210	1136	1	6	635	2510	105	547
	07/06	*	*	2	20	114	642	2	12	587	2119	53	357
	07/08	*	*	0	0	138	791	5	29	1086	4341	46	288

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/09	*	*	0	0	152	837	2	16	1370	5110	53	329
	07/10	*	*	3	21	84	463	1	5	890	3313	19	129
	07/13	*	*	0	0	206	1208	2	12	1397	4809	37	240
	07/14	*	*	0	0	615	3676	7	49	1265	4860	55	378
	07/15	*	*	2	16	1024	5944	15	101	2125	7914	54	352
	07/16	*	*	1	7	148	940	4	25	1600	6276	25	159
	07/17	*	*	0	0	201	1228	6	33	1797	7165	22	128
	07/20	*	*	1	10	50	298	3	29	509	2015	15	96
	07/21	*	*	2	10	125	680	17	114	1645	6519	20	120
	07/22	*	*	0	0	171	1041	8	46	2356	9439	29	185
	07/23	*	*	0	0	552	3304	19	126	1843	7383	57	346
	07/24	*	*	0	0	471	2916	12	78	1405	6337	84	476
	07/27	*	*	0	0	52	297	4	26	1120	4492	41	252
	07/28	*	*	0	0	84	486	30	210	2284	9105	43	261
	07/29	*	*	0	0	52	308	47	347	1463	5879	25	157
	07/30	*	*	2	63	118	557	42	308	2441	9727	45	273
	07/31	*	*	1	12	42	224	39	273	2410	9597	39	262
	08/01	*	*	0	0	57	288	60	491	1861	7444	25	166
	08/02	*	*	1	12	43	214	19	151	1322	5326	10	66
	08/03	*	*	0	0	49	304	23	172	1666	6740	22	135
	08/04	*	*	0	0	139	927	29	198	2091	8139	54	356
	08/05	*	*	0	0	262	1482	10	70	3052	11964	33	212
	08/06	*	*	0	0	180	997	7	47	2180	9037	36	224
	08/07	*	*	0	0	388	2189	33	213	1849	7389	96	559
	08/09	*	*	0	0	32	186	74	589	947	3793	5	31
	08/10	*	*	0	0	39	233	213	1490	913	3609	5	31
	08/11	*	*	0	0	107	537	43	292	1240	5017	20	119
	08/12	*	*	1	15	90	483	190	1369	1160	4436	14	86
	08/13	*	*	0	0	27	141	19	142	485	1852	5	33
	08/14	*	*	0	0	21	116	26	195	483	1853	5	34
	08/15	*	*	0	0	63	355	127	963	780	2989	2	13
	08/16	*	*	0	0	126	688	89	634	1110	4403	2	10
	08/17	*	*	1	22	61	321	107	838	708	2743	3	19
	08/19	*	*	0	0	87	465	94	713	974	3676	2	12
	08/20	*	*	0	0	371	1936	42	302	799	3208	2	13
	TOTAL	*	92	56	609	10402	57394	1487	10823	58239	230094	2103	12947
	AVG. WT.				10.88		5.52		7.28		3.95		6.16
25440	06/09	10	11	13	192	1572	7667	0	0	11	39	12	83
	06/10	7	7	15	186	3193	15540	0	0	54	221	181	999
	06/14	8	8	8	87	770	4360	0	0	32	125	71	424
	06/15	8	8	35	289	2709	13496	0	0	153	559	437	2444
	06/16	8	8	24	208	677	3220	0	0	61	218	93	557
	06/17	9	15	20	214	1015	5091	1	7	142	511	83	530
	06/18	8	15	15	227	647	3130	0	0	133	512	84	511
	06/19	8	8	29	276	1789	8779	1	6	341	1273	190	1202

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/20	9	9	46	432	2610	12574	0	0	475	2017	232	1554
	06/21	8	8	23	220	1435	7151	0	0	329	1348	135	850
	06/22	8	8	19	154	2819	14394	0	0	386	1584	281	1723
	06/23	9	12	41	387	1601	8034	0	0	405	1578	203	1248
	06/24	9	15	39	286	1272	6576	0	0	792	3032	269	1662
	06/25	7	8	51	421	1288	6612	0	0	644	2495	202	1203
	06/26	6	6	42	328	873	4336	1	6	595	2321	201	1208
	06/27	7	8	39	334	4370	22811	2	13	1361	5411	318	2014
	06/28	7	7	24	204	3405	17606	2	14	1742	6765	598	3593
	06/29	6	6	48	347	1328	6890	6	38	956	3759	268	1788
	06/30	8	8	72	465	1454	7582	4	30	1346	5314	375	2447
	07/01	8	8	17	109	1640	8802	18	121	1124	4510	478	3119
	07/02	8	8	16	113	935	5044	15	99	1499	5821	340	2073
	07/03	9	9	16	152	3384	18609	19	132	3903	15321	515	3383
	07/04	9	12	37	320	6491	35480	12	91	5246	20957	548	3556
	07/05	8	12	11	84	4748	26686	11	71	4026	15802	831	5264
	07/06	10	16	8	91	3417	18987	11	77	3597	13836	421	2713
	07/07	10	10	11	145	2388	13622	29	209	4629	18060	495	2890
	07/08	8	8	6	101	1604	9389	18	124	3663	14187	393	2488
	07/09	8	14	3	27	1329	7567	23	153	5010	19952	296	1998
	07/10	8	15	2	27	1803	10402	19	127	7775	30572	375	2358
	07/13	9	9	3	44	1552	9282	40	276	5218	20467	225	1618
	07/14	9	19	6	82	9000	57220	56	354	9334	37839	631	4202
	07/15	9	18	1	8	10765	67756	56	351	5615	22489	602	3870
	07/16	9	16	1	7	3899	24565	50	334	7188	28448	425	2943
	07/17	9	11	5	51	2600	16296	41	277	7387	28839	149	1008
	07/20	6	6	1	12	228	1431	12	83	1983	7485	30	186
	07/21	8	12	1	8	703	4398	48	323	8458	33979	130	831
	07/22	9	16	0	0	1524	9651	167	1191	10290	41632	258	1686
	07/23	8	16	0	0	4104	25917	78	537	10074	40741	345	2089
	07/24	10	11	2	39	3307	20895	79	563	12379	49641	407	2615
	07/27	7	7	1	5	343	2125	19	131	6011	24381	193	1215
	07/28	8	15	0	0	550	3270	124	826	13246	53585	414	2613
	07/29	8	14	0	0	906	5339	214	1557	13239	52461	533	3387
	07/30	8	10	1	38	289	1647	206	1440	10782	42261	375	2264
	07/31	8	9	1	10	746	4227	296	2073	15885	62490	347	2194
	08/01	8	10	0	0	501	2836	293	2179	8838	34305	286	1923
	08/02	8	8	0	0	395	2326	265	1715	6811	26554	226	1451
	08/03	9	11	0	0	485	2791	166	1086	6522	25261	207	1281
	08/04	9	12	0	0	1888	10417	128	897	10210	39735	452	2737
	08/05	13	16	0	0	2295	12562	165	1075	16128	62521	495	3130
	08/06	9	13	5	67	1887	11038	152	1025	12115	47683	641	3925
	08/07	8	10	0	0	1558	8485	181	1213	9206	36058	424	2533
	08/08	12	15	1	18	1128	6350	241	1687	10519	41354	202	1243
	08/09	7	11	0	0	542	2978	180	1243	8284	32315	84	531
	08/10	7	7	1	7	399	2273	269	1954	7035	27655	93	553

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/11	8	16	5	62	724	4119	222	1596	8488	31907	199	1242
	08/12	9	12	0	0	307	1770	194	1472	6171	24243	140	868
	08/13	10	11	0	0	295	1677	159	1193	4813	18192	72	443
	08/14	9	9	0	0	336	1869	320	2538	2704	10666	22	127
	08/15	8	8	0	0	562	3125	321	2378	2407	9181	44	268
	08/16	7	7	0	0	567	3331	250	1885	3936	15229	42	248
	08/17	7	7	0	0	963	5340	221	1620	3623	14111	35	226
	08/18	6	6	3	64	844	4744	242	1700	2943	11281	15	95
	08/19	5	5	0	0	1389	7507	196	1400	2695	10542	18	104
	08/20	5	5	0	0	1161	6283	186	1439	2438	9578	35	212
	TOTAL	23	675	768	6948	121308	686277	6029	42929	323405	1273209	17721	111743
	AVG. WT.				9.05		5.66		7.12		3.94		6.31
25740	06/09	11	12	4	81	9436	47957	0	0	0	0	5	41
	06/10	15	16	1	29	12926	64898	0	0	0	0	13	107
	06/11	*	*	0	0	288	1438	0	0	0	0	0	0
	06/12	14	14	2	47	5487	26822	0	0	0	0	2	16
	06/13	11	11	2	35	2512	12087	0	0	0	0	9	71
	06/14	21	21	4	85	4885	22655	0	0	1	4	5	39
	06/15	17	17	2	44	2584	12250	0	0	0	0	7	49
	06/16	14	15	4	77	1247	5495	0	0	0	0	3	20
	06/17	11	11	0	0	390	1776	0	0	0	0	3	20
	06/18	12	12	2	37	411	1846	0	0	0	0	13	119
	06/21	14	14	2	27	9752	47924	0	0	4	14	38	266
	06/22	14	15	6	97	6043	29015	0	0	5	19	27	219
	06/24	*	*	0	0	161	798	0	0	0	0	0	0
	06/25	11	11	1	15	9126	44068	0	0	21	75	71	512
	06/26	21	25	7	119	16475	76741	1	8	21	80	100	761
	06/27	14	14	1	25	2468	11115	0	0	15	52	56	395
	07/04	14	17	4	64	12062	58034	0	0	318	1162	175	1221
	07/05	16	21	0	0	14103	65735	0	0	520	1819	227	1570
	07/06	12	12	1	21	5663	25847	0	0	397	1399	176	1201
	07/07	13	14	1	22	1555	6738	0	0	502	1832	241	1619
	07/08	14	17	0	0	967	4254	1	11	234	827	97	690
	07/09	10	11	0	0	252	1129	0	0	157	560	58	391
	07/10	11	11	1	19	229	872	1	6	300	1011	44	340
	07/11	11	11	0	0	162	681	0	0	413	1369	31	240
	07/12	9	9	0	0	184	676	0	0	586	2048	94	795
	07/13	12	15	2	26	700	2689	0	0	1238	4362	87	637
	07/14	10	10	0	0	248	925	1	7	337	1170	55	415
	07/15	10	10	0	0	572	2192	0	0	1515	5211	71	522
	07/20	13	13	0	0	3310	17151	4	27	5788	21481	84	567
	07/21	13	14	0	0	1828	8951	1	8	4541	16593	66	421
	07/22	13	14	0	0	682	3151	2	10	3407	12283	35	221
	07/23	13	13	0	0	377	1741	0	0	2385	8610	40	275
	07/24	12	13	1	5	229	1071	1	7	1606	5724	19	121

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/27	12	13	0	0	2391	12448	0	0	3773	14069	8	51
	07/28	12	13	1	28	1711	8232	1	10	6270	22384	20	114
	07/29	12	12	0	0	649	3085	5	39	4098	13803	31	201
	07/30	11	11	0	0	384	1813	1	7	1624	5634	12	66
	07/31	12	12	0	0	375	1708	2	16	974	3294	8	46
	08/01	12	12	0	0	352	1605	1	9	893	3090	8	51
	08/02	11	11	0	0	469	2169	2	13	881	2955	17	105
	08/03	11	11	0	0	454	2013	0	0	658	1984	10	57
	08/04	11	11	0	0	604	2861	0	0	796	2677	14	86
	08/05	11	11	0	0	570	2737	1	6	628	2080	10	62
	08/06	9	9	0	0	256	1201	2	18	430	1372	14	98
	08/07	10	10	0	0	266	1245	1	7	461	1458	14	112
	08/12	12	12	1	13	1382	7530	8	69	625	2114	13	87
	08/13	13	13	0	0	835	4110	18	144	805	2859	65	410
	09/03	5	5	0	0	852	4365	204	1741	206	712	576	3581
	09/04	8	8	0	0	401	1974	261	2344	64	211	745	4313
	09/05	5	5	0	0	313	1504	254	2158	0	0	285	1583
	09/06	6	7	0	0	431	1978	371	2486	0	0	163	833
	09/07	*	*	0	0	95	423	35	280	0	0	17	83
	09/08	*	*	0	0	64	290	90	787	0	0	130	802
	TOTAL	35	624	50	916	140168	672013	1269	10218	47497	168401	4112	26622
	AVG. WT.				18.32		4.79		8.05		3.55		6.47
25741	06/09	19	23	3	51	8522	42813	0	0	0	0	1	7
	06/10	26	36	4	107	15305	76990	0	0	0	0	4	27
	06/11	*	*	0	0	581	2844	0	0	0	0	0	0
	06/12	25	27	3	56	8892	44738	0	0	1	4	11	66
	06/13	24	39	4	90	13242	63077	0	0	0	0	7	59
	06/14	19	21	6	119	9636	47802	0	0	0	0	17	133
	06/15	12	16	2	56	7000	34264	0	0	3	11	10	62
	06/16	26	43	6	87	13752	66890	0	0	3	9	39	294
	06/17	27	37	3	35	5052	25101	0	0	4	28	49	382
	06/18	24	30	4	78	8165	39231	1	9	8	26	55	416
	06/21	25	26	6	104	6726	32767	0	0	8	31	27	204
	06/22	27	31	3	64	13419	64500	0	0	28	108	81	571
	06/23	*	*	0	0	34	171	0	0	0	0	0	0
	06/25	26	33	1	37	22276	108151	0	0	48	179	55	369
	06/26	28	40	6	128	20509	98580	4	22	58	231	129	929
	06/27	26	32	7	117	16361	75402	3	23	106	409	192	1238
	07/04	28	28	2	37	14482	71043	5	39	694	2675	232	1515
	07/05	31	42	2	41	17272	82559	12	91	1372	4981	266	1698
	07/06	19	21	2	29	4454	21099	3	19	698	2748	151	956
	07/07	30	34	3	45	8181	39317	6	45	1556	5630	164	1044
	07/08	32	41	2	29	7366	34530	6	43	1307	4709	236	1354
	07/09	32	35	1	10	9818	45679	3	22	2276	8351	189	1182
	07/10	30	32	2	13	6824	32849	4	28	2580	9396	138	867

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/11	32	35	5	54	5482	27041	17	134	2564	9539	132	868
	07/12	30	33	3	60	5503	26815	18	140	3724	13209	171	1068
	07/13	30	31	2	17	5439	26528	25	173	4946	18585	142	922
	07/14	30	32	8	92	5689	26469	14	108	6223	22626	134	883
	07/15	30	32	5	68	5453	26976	16	121	7703	27204	113	717
	07/16	*	*	1	28	625	3111	1	7	527	2027	11	73
	07/20	27	29	2	12	5356	27739	16	117	7085	26050	53	356
	07/21	33	47	6	47	7147	36712	106	762	11293	41575	151	914
	07/22	32	35	0	0	4049	21049	46	323	7923	29963	93	620
	07/23	32	38	0	0	4190	21896	39	295	8712	32092	94	617
	07/24	31	35	3	22	3501	18711	39	240	7963	29633	110	682
	07/27	31	34	1	16	5303	27463	30	229	8558	31427	124	821
	07/28	36	48	3	58	7668	40065	90	696	8480	30950	200	1205
	07/29	32	35	3	31	7901	41872	106	796	6434	23761	239	1539
	07/30	38	51	3	57	6494	33438	53	424	4829	17662	105	680
	07/31	39	51	3	48	6791	34950	78	548	4641	16796	143	943
	08/01	33	35	1	22	5989	31440	78	615	5723	20880	201	1253
	08/02	35	46	0	0	6335	33394	75	514	4942	18096	116	738
	08/03	30	35	3	35	6569	34194	187	1328	5212	19043	128	846
	08/04	31	35	2	39	6066	32080	194	1458	5943	21913	184	1184
	08/05	33	34	0	0	5420	28588	155	1190	4472	15256	183	1201
	08/06	31	33	0	0	4492	23598	235	1532	4100	14814	262	1696
	08/07	36	40	2	33	5473	29383	261	1842	5897	21458	317	2033
	08/12	27	28	2	27	4104	22482	190	1541	3757	13508	232	1506
	08/13	26	31	1	6	6064	31960	133	1029	5917	21876	270	1775
	09/03	7	7	0	0	358	1891	173	1460	96	347	164	984
	09/04	10	11	0	0	1167	5949	320	2726	562	1928	223	1404
	09/05	6	7	0	0	871	4407	297	2476	0	0	189	1194
	09/06	*	4	0	0	366	1808	335	2795	0	0	74	503
	09/07	8	10	0	0	954	4966	389	3051	0	0	411	2333
	09/08	7	11	1	18	753	3775	271	2526	0	0	440	2444
	09/09	5	6	0	0	416	2121	189	1555	0	0	350	1935
	09/10	8	9	0	0	826	4166	347	2883	0	0	281	1700
	09/11	9	10	0	0	593	3013	285	2376	0	0	289	1697
	09/12	8	8	0	0	656	3398	497	4326	0	0	457	2524
	09/13	8	8	0	0	367	1830	216	1807	0	0	296	1654
	09/14	6	6	0	0	646	3226	281	2408	0	0	336	1848
	09/15	6	7	0	0	746	3801	183	1549	0	0	321	1788
	09/17	6	8	0	0	616	3091	266	2258	0	0	275	1425
	09/21	*	*	0	0	180	1262	63	500	0	0	42	272
	TOTAL	64	1669	132	2123	384487	1907055	6361	51199	158976	581744	10109	62218
	AVG. WT.				16.08		4.96		8.05		3.66		6.15
25936	06/09	*	*	0	0	145	770	0	0	0	0	0	0
	06/14	*	*	0	0	55	280	0	0	0	0	0	0

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	06/16	*	*	0	0	133	645	0	0	25	90	0	0
	06/17	*	*	0	0	207	1010	0	0	0	0	1	5
	06/18	*	*	0	0	352	1725	0	0	72	250	0	0
	06/19	*	*	0	0	64	310	0	0	12	55	0	0
	06/20	*	*	0	0	104	510	0	0	12	60	0	0
	06/21	*	*	0	0	323	1500	0	0	0	0	0	0
	06/23	*	*	0	0	124	610	0	0	26	100	1	5
	06/24	*	*	0	0	721	3465	0	0	100	480	2	10
	06/27	*	*	0	0	152	765	0	0	92	300	2	10
	06/28	*	*	0	0	275	1375	0	0	180	615	2	10
	06/29	*	*	0	0	360	1865	0	0	226	780	4	30
	06/30	*	*	0	0	270	1330	0	0	230	760	3	15
	07/01	*	*	0	0	305	1630	0	0	115	530	4	15
	07/02	*	*	1	10	230	1135	4	20	155	555	0	0
	07/03	*	*	1	10	340	1765	0	0	290	1005	3	15
	07/04	*	*	0	0	120	740	0	0	180	620	2	10
	07/05	*	*	0	0	285	1700	0	0	617	2130	4	18
	07/07	*	*	0	0	340	1920	0	0	395	1400	4	25
	07/08	*	*	0	0	510	2855	5	25	310	1125	3	15
	07/09	*	*	0	0	270	1475	6	40	205	720	3	15
	07/10	*	*	1	25	445	2460	5	30	310	1095	0	0
	07/14	*	*	1	10	325	1980	10	50	157	620	3	15
	07/15	*	*	0	0	445	2640	12	65	200	800	6	30
	07/16	*	*	1	10	395	2435	11	70	180	690	4	20
	07/17	*	*	0	0	490	3005	30	170	240	965	5	35
	07/21	*	*	0	0	370	2210	6	40	540	2140	4	25
	07/22	*	*	0	0	106	625	10	70	500	2020	6	30
	07/23	*	*	0	0	28	220	0	0	265	1050	0	0
	07/24	*	*	0	0	50	300	5	30	500	1790	2	10
	07/27	*	*	0	0	3	16	3	20	70	230	2	10
	07/28	*	*	0	0	50	260	2	20	630	2260	9	55
	07/30	*	*	0	0	63	350	12	60	510	1700	10	60
	07/31	*	*	0	0	95	470	9	50	540	1815	8	40
	08/01	*	*	0	0	40	210	13	75	336	1135	15	70
	08/02	*	*	0	0	39	220	20	115	336	1110	10	50
	08/03	*	*	0	0	50	245	20	115	420	1425	12	75
	08/04	*	*	0	0	30	160	12	70	230	800	15	80
	08/05	*	*	0	0	20	110	14	75	315	1020	11	60
	08/06	*	*	0	0	15	100	10	55	230	730	5	30
	08/07	*	*	0	0	13	85	14	85	210	715	37	200
	08/08	*	*	0	0	105	550	32	175	900	2915	42	230
	08/09	*	*	0	0	25	115	28	175	540	1730	25	120
	08/10	*	*	3	50	35	170	30	170	365	1200	15	75
	08/11	*	*	2	60	9	50	10	50	300	970	25	130
	08/12	*	*	0	0	18	130	34	230	810	2630	42	215
	08/14	*	*	0	0	82	430	103	560	1150	3710	52	265

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/15	*	*	0	0	16	80	22	140	420	2135	20	130
	08/16	*	*	0	0	16	75	15	105	765	2595	36	235
	08/17	*	*	0	0	35	150	30	200	850	2855	45	250
	TOTAL	*	54	10	175	9098	49231	537	3155	16061	56425	504	2743
	AVG. WT.				17.50		5.41		5.88		3.51		5.44
25937	06/10	*	*	0	0	465	2406	0	0	0	0	0	0
	06/15	*	*	1	40	516	2460	0	0	8	30	1	6
	06/16	*	*	1	30	157	785	0	0	11	40	11	60
	06/17	*	*	2	30	389	1900	0	0	30	120	0	0
	06/21	*	*	2	13	101	523	0	0	9	32	1	5
	06/22	*	*	3	37	311	1976	0	0	61	203	12	58
	06/23	*	*	0	0	72	363	0	0	18	61	1	4
	06/24	*	*	2	18	562	2715	0	0	162	505	15	70
	06/25	*	*	0	0	341	1735	0	0	110	405	7	34
	06/26	*	*	0	0	48	230	0	0	3	13	0	0
	06/27	*	*	0	0	91	456	0	0	38	126	1	6
	06/29	*	*	0	0	90	475	0	0	59	205	3	15
	06/30	*	*	0	0	137	665	0	0	68	215	4	25
	07/01	*	*	0	0	250	1300	0	0	121	405	20	105
	07/02	*	*	0	0	26	130	0	0	25	90	7	30
	07/03	*	*	0	0	28	141	2	9	36	118	2	10
	07/06	*	*	1	35	95	530	0	0	136	475	17	100
	07/07	*	*	0	0	74	410	0	0	43	145	31	170
	07/08	*	*	1	7	178	950	79	410	126	420	3	15
	07/10	*	*	0	0	134	790	32	185	108	360	15	130
	07/14	*	*	0	0	226	1290	50	300	236	830	22	110
	07/15	*	*	0	0	365	2125	50	285	353	1215	20	105
	07/16	*	*	0	0	310	1836	43	245	323	1229	34	190
	07/17	*	*	0	0	174	970	27	150	236	765	2	10
	07/21	*	*	0	0	56	300	17	100	250	900	6	30
	07/22	*	*	0	0	78	430	45	190	357	1250	14	70
	07/23	*	*	0	0	40	215	22	135	450	1580	7	40
	07/24	*	*	0	0	17	100	4	25	414	1450	11	50
	07/28	*	*	0	0	57	320	31	185	926	3290	12	70
	07/29	*	*	0	0	14	85	15	90	265	960	9	50
	07/30	*	*	0	0	40	260	21	115	160	585	15	70
	07/31	*	*	0	0	73	430	14	85	250	855	20	125
	08/01	*	*	0	0	17	95	23	125	193	675	13	80
	08/02	*	*	0	0	16	100	25	150	178	660	19	110
	08/03	*	*	0	0	35	200	35	200	185	640	28	140
	08/05	*	*	0	0	13	65	16	100	234	810	19	100
	08/06	*	*	0	0	16	100	13	70	376	1290	38	220
	08/07	*	*	0	0	8	50	8	50	134	450	12	60
	08/08	*	*	0	0	28	135	17	100	480	1550	21	140
	08/09	*	*	0	0	25	135	30	190	300	960	20	110

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/10	*	*	0	0	9	65	18	100	234	765	10	50
	08/11	*	*	0	0	9	45	16	85	140	470	16	85
	08/12	*	*	0	0	7	45	18	125	342	1175	45	260
	08/13	*	*	0	0	1	5	27	165	453	1500	24	150
	08/15	*	*	0	0	11	60	25	165	330	1100	43	240
	08/16	*	*	0	0	2	12	5	40	300	1015	33	160
	08/17	*	*	0	0	1	8	1	10	340	1135	22	115
	TOTAL	*	56	13	210	5713	30421	729	4184	9611	33072	686	3783
	AVG. WT.				16.15		5.32		5.74		3.44		5.51
25938	06/15	*	*	0	0	100	520	0	0	12	45	0	0
	06/18	*	*	0	0	122	620	0	0	16	55	4	20
	06/19	*	*	0	0	140	1260	0	0	15	45	2	10
	06/20	*	*	3	25	376	1945	0	0	26	85	5	30
	06/21	*	*	0	0	161	825	0	0	16	60	1	5
	06/22	*	*	0	0	122	615	0	0	11	40	1	10
	06/24	*	*	1	10	134	625	2	10	26	130	3	12
	06/27	*	*	0	0	140	720	1	5	41	140	0	0
	06/28	*	*	0	0	83	390	1	5	42	165	2	10
	06/29	*	*	0	0	50	235	0	0	48	150	2	10
	06/30	*	*	1	6	121	630	5	30	47	210	0	0
	07/01	*	*	0	0	158	845	18	85	95	340	0	0
	07/02	*	*	0	0	33	175	1	7	33	120	0	0
	07/03	*	*	0	0	170	860	6	30	100	400	9	55
	07/04	*	*	1	6	211	1210	8	50	140	500	9	40
	07/05	*	*	0	0	120	625	9	45	180	710	9	60
	07/06	*	*	0	0	96	475	17	90	120	450	6	30
	07/07	*	*	0	0	91	550	26	135	120	450	9	60
	07/08	*	*	0	0	110	665	16	95	80	300	7	35
	07/09	*	*	0	0	85	530	37	215	60	250	6	35
	07/10	*	*	0	0	70	400	25	145	105	375	6	50
	07/14	*	*	0	0	172	1020	17	90	250	850	11	65
	07/15	*	*	0	0	277	1715	25	145	272	1000	15	80
	07/17	*	*	0	0	76	440	9	50	121	485	4	25
	07/21	*	*	0	0	61	345	5	35	480	1875	28	145
	07/22	*	*	0	0	55	300	10	60	420	1645	20	115
	07/23	*	*	0	0	13	90	3	25	230	960	9	75
	07/24	*	*	0	0	10	60	5	35	250	915	19	110
	07/27	*	*	0	0	5	30	2	10	136	450	6	35
	07/28	*	*	0	0	5	30	5	30	150	545	13	70
	07/29	*	*	0	0	9	60	2	10	170	615	18	110
	07/30	*	*	0	0	33	190	6	40	225	780	16	85
	07/31	*	*	0	0	45	220	14	75	329	1180	31	180
	08/01	*	*	0	0	16	80	10	65	250	870	17	110
	08/02	*	*	0	0	20	120	20	100	220	855	24	120
	08/03	*	*	0	0	24	145	11	90	300	920	24	130

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/04	*	*	0	0	16	105	9	50	190	685	15	105
	08/05	*	*	0	0	20	100	10	50	320	930	19	135
	08/09	*	*	0	0	3	20	5	35	216	765	15	90
	08/10	*	*	0	0	3	18	1	7	115	460	21	135
	08/11	*	*	0	0	3	18	5	30	75	375	25	140
	08/12	*	*	0	0	7	45	9	60	175	610	29	180
	08/13	*	*	0	0	11	60	8	40	150	615	31	200
	08/14	*	*	0	0	5	30	11	90	187	660	25	150
	08/16	*	*	0	0	9	55	3	20	300	1040	26	145
	08/17	*	*	0	0	4	20	6	40	150	680	22	160
	TOTAL	*	47	6	47	3595	20036	383	2229	7014	25785	564	3367
	AVG. WT.				7.83		5.57		5.82		3.68		5.97
25939	06/10	*	*	0	0	910	4560	0	0	0	0	0	0
	06/15	*	*	1	20	225	1115	0	0	17	65	5	25
	06/16	*	*	1	15	200	970	0	0	30	120	3	15
	06/17	*	4	3	40	680	3330	2	10	90	330	25	125
	06/18	*	*	0	0	350	1725	0	0	31	124	13	65
	06/20	*	*	0	0	500	2445	0	0	70	250	15	85
	06/21	*	*	4	50	465	2305	0	0	60	255	8	40
	06/22	*	*	0	0	340	1620	0	0	58	200	18	100
	06/23	*	*	1	20	480	2410	0	0	120	435	19	90
	06/24	*	*	0	0	350	1700	0	0	125	445	10	55
	06/25	4	4	2	25	655	3145	4	30	216	770	10	75
	06/26	*	*	2	15	395	1985	0	0	136	475	21	106
	06/27	*	*	0	0	335	1635	5	30	100	345	10	50
	06/28	*	*	1	20	600	2995	10	60	190	685	15	90
	06/29	*	*	1	35	250	1280	13	80	125	460	5	30
	06/30	*	*	1	10	490	2585	15	85	120	445	14	85
	07/01	*	*	2	50	510	2670	38	190	250	830	15	80
	07/02	*	*	1	12	190	910	15	105	120	460	8	60
	07/03	*	*	1	30	253	1240	2	15	161	595	12	65
	07/04	*	*	0	0	180	965	30	190	175	610	10	50
	07/05	*	*	0	0	570	3195	100	570	330	1215	12	70
	07/06	*	*	0	0	420	2275	90	490	410	1470	25	145
	07/07	*	*	3	60	585	3295	65	350	425	1510	14	75
	07/08	*	*	0	0	505	2810	100	535	460	1625	19	230
	07/09	*	*	0	0	380	2015	100	460	450	1570	20	105
	07/10	*	*	0	0	480	2530	85	470	530	1870	15	85
	07/14	*	*	1	23	325	1740	100	535	1080	3780	20	125
	07/15	*	*	0	0	90	485	0	0	140	480	0	0
	07/16	*	*	1	10	440	2410	135	805	1480	5180	27	160
	07/17	*	*	0	0	158	865	35	210	910	3340	12	62
	07/21	*	*	0	0	187	1055	35	215	2150	7565	50	320
	07/22	*	*	0	0	90	465	20	120	1100	3955	12	70
	07/23	*	*	2	30	42	245	15	75	980	3525	15	80

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/24	*	*	0	0	70	400	11	76	1140	4070	20	100
	07/27	*	*	0	0	10	50	8	45	206	720	0	0
	07/28	*	*	0	0	35	220	15	100	950	3485	20	115
	07/29	*	*	0	0	50	270	10	75	1230	4300	13	75
	07/30	*	*	0	0	70	375	15	115	1260	4435	25	145
	07/31	*	*	0	0	105	565	47	340	1440	5225	45	270
	08/01	*	*	0	0	72	420	15	110	1090	3975	33	180
	08/02	*	*	0	0	100	510	40	245	1550	5660	70	415
	08/03	*	*	0	0	100	525	50	365	1580	5770	80	455
	08/04	*	*	1	20	108	585	108	660	1652	5935	92	545
	08/05	*	*	0	0	45	240	40	250	1130	4050	25	150
	08/06	*	*	0	0	20	110	25	160	1060	3780	60	335
	08/07	*	*	0	0	3	18	1	7	350	1240	10	75
	08/08	*	*	0	0	35	165	35	235	1100	4000	70	475
	08/09	*	*	0	0	40	215	20	125	1490	5425	50	310
	08/10	*	*	0	0	20	115	20	135	880	3180	45	255
	08/11	*	*	0	0	32	175	18	100	1050	3860	30	210
	08/12	*	*	0	0	55	295	30	190	1530	5615	66	370
	08/13	*	*	0	0	12	70	5	35	655	2430	22	130
	08/14	*	*	0	0	15	90	14	95	750	2620	40	210
	08/15	*	*	0	0	21	105	20	135	860	3070	40	200
	08/16	*	*	0	0	7	42	17	110	850	2950	53	315
	08/17	*	*	1	28	12	70	15	90	750	2720	40	220
	TOTAL	5	111	30	513	13667	70605	1593	9428	37192	133499	1426	8373
	AVG. WT.				17.10		5.17		5.92		3.59		5.87
<hr/>													
SET GILLNET TOTAL		176	8669	4315	49766	1403236	7215964	66604	474000	2176421	8256534	138084	844824
AVG. WT.					11.53		5.14		7.12		3.79		6.12

Appendix P.4. Beach seine commercial salmon harvest by day, by statistical area, by species (in number and pounds) for the Kodiak Management Area, 1993.

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25230	07/28	*	*	0	0	2	7	0	0	2210	5872	4	14
	TOTAL	*	*	0	0	2	7	0	0	2210	5872	4	14
	AVG. WT.				0.00		3.50		0.00		2.66		3.50
25232	07/27	*	*	0	0	8	25	0	0	1140	2734	3	10
	07/29	*	*	0	0	4	17	0	0	870	2127	0	0
	07/30	*	*	0	0	5	18	0	0	2221	5523	3	15
	07/31	*	*	0	0	8	32	0	0	1561	4217	0	0
	08/02	*	*	0	0	0	0	0	0	375	1125	0	0
	TOTAL	*	6	0	0	25	92	0	0	6167	15726	6	25
	AVG. WT.				0.00		3.68		0.00		2.55		4.17
25311	08/04	*	*	0	0	1	1	0	0	464	1646	14	94
	08/08	*	*	0	0	2	6	0	0	1500	4979	12	86
	08/12	*	*	0	0	0	0	3	27	867	2866	3	21
	08/23	*	*	0	0	1	5	0	0	1528	4585	3	16
	TOTAL	*	4	0	0	4	12	3	27	4359	14076	32	217
AVG. WT.				0.00		3.00		9.00		3.23		6.78	
25312	07/13	*	*	0	0	1	4	0	0	22	76	0	0
	07/14	*	*	0	0	20	62	1	7	394	1306	74	641
	07/16	*	*	0	0	0	0	0	0	20	71	1	9
	07/17	*	*	0	0	8	32	0	0	416	1346	7	58
	07/20	*	*	0	0	0	0	0	0	264	973	1	9
	07/21	*	*	0	0	6	26	0	0	680	2403	2	12
	07/22	*	5	0	0	24	63	0	0	2038	7399	22	181
	07/23	*	*	1	21	5	25	0	0	574	2182	12	82
	07/24	*	*	0	0	0	0	0	0	208	855	10	75
	07/27	*	*	0	0	9	39	0	0	1107	3529	7	54
	07/28	*	5	0	0	8	34	1	13	1058	2761	25	187
	07/29	*	4	0	0	3	6	1	4	278	998	8	55
	07/30	*	*	0	0	7	22	0	0	1050	3686	9	67
	07/31	*	*	0	0	9	28	1	11	1147	3729	13	83
	08/01	*	*	0	0	5	18	0	0	321	1144	2	15
	08/05	*	*	0	0	1	4	0	0	277	842	2	11
	08/07	*	*	0	0	3	12	0	0	200	691	1	8
	08/09	*	*	0	0	4	15	0	0	1164	3684	4	26
	08/10	*	*	0	0	0	0	0	0	56	190	1	5
	08/11	*	*	1	10	6	19	1	7	801	3105	9	46
08/13	*	*	0	0	0	0	3	20	469	1408	4	26	
08/17	*	*	0	0	0	0	0	0	712	2487	2	10	
08/18	*	*	0	0	1	6	0	0	288	977	2	13	
08/19	*	*	0	0	0	0	0	0	443	1458	6	40	
08/24	*	4	0	0	2	8	0	0	2095	6312	5	28	

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	08/27	*	*	0	0	0	0	0	0	640	1921	1	5
	TOTAL	*	54	2	31	122	423	8	62	16722	55533	230	1746
	AVG.WT.				15.50		3.47		7.75		3.32		7.59
25313	07/24	*	*	0	0	0	0	0	0	164	604	1	8
	08/14	*	*	0	0	0	0	3	23	1631	5199	2	11
	08/15	*	*	0	0	0	0	1	6	701	2106	5	25
	08/16	*	*	0	0	0	0	0	0	80	252	0	0
	08/17	*	*	0	0	1	4	0	0	1055	3165	1	5
	08/18	*	*	0	0	0	0	0	0	200	644	1	5
	08/19	*	*	0	0	0	0	0	0	261	782	2	10
	08/21	*	*	0	0	1	5	1	8	768	2482	2	12
	08/23	*	*	0	0	0	0	0	0	1440	4321	2	10
	08/31	*	*	0	0	0	0	0	0	56	224	0	0
	TOTAL	*	12	0	0	2	9	5	37	6356	19779	16	86
	AVG.WT.				0.00		4.50		7.40		3.11		5.38
25314	08/26	*	*	0	0	0	0	0	0	400	1291	0	0
	TOTAL	*	*	0	0	0	0	0	0	400	1291	0	0
	AVG.WT.				0.00		0.00		0.00		3.23		0.00
25333	08/05	*	*	0	0	0	0	0	0	300	991	1	7
	08/06	*	*	0	0	0	0	0	0	318	1148	0	0
	TOTAL	*	*	0	0	0	0	0	0	618	2139	1	7
	AVG.WT.				0.00		0.00		0.00		3.46		7.00
25410	06/28	*	*	0	0	25	116	0	0	1772	4162	0	0
	TOTAL	*	*	0	0	25	116	0	0	1772	4162	0	0
	AVG.WT.				0.00		4.64		0.00		2.35		0.00
25420	06/29	*	*	0	0	0	0	0	0	225	673	1	5
	07/06	*	*	6	113	9	34	0	0	583	1661	9	62
	07/07	*	*	2	61	25	95	0	0	643	2327	4	25
	07/08	*	*	22	428	21	84	0	0	1350	4333	14	84
	07/10	*	*	32	622	47	226	0	0	1496	5129	7	57
	07/13	*	*	2	40	50	264	0	0	1158	4374	4	23
	07/15	*	4	0	0	132	749	3	15	3715	12691	7	47
	07/16	*	*	0	0	14	81	0	0	3460	11350	3	17
	07/17	*	*	0	0	14	78	0	0	1020	3533	4	29
	07/20	*	*	3	79	25	148	2	11	880	2985	6	34
	07/21	*	*	6	141	4	26	1	7	2425	8405	9	62
	07/22	*	*	1	28	1	8	0	0	800	2590	5	29
	07/27	*	*	0	0	10	44	0	0	6180	20831	13	91
	07/28	*	*	0	0	0	0	0	0	2120	7207	7	38
	07/29	*	*	0	0	0	0	0	0	75	251	0	0

-Continued-

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
	07/30	*	*	2	74	6	34	3	22	2850	10380	16	120
	07/31	*	*	0	0	0	0	1	5	300	933	3	18
	08/01	*	*	0	0	1	4	0	0	1163	3647	2	15
	08/02	*	*	0	0	1	7	0	0	2083	6278	1	9
	08/04	*	*	0	0	3	16	1	6	375	1123	0	0
	08/05	*	*	0	0	0	0	0	0	1054	3606	4	22
	08/06	*	*	1	5	13	75	2	10	2600	8731	16	122
	08/07	*	*	0	0	2	10	3	22	1285	4502	2	9
	08/08	*	*	0	0	34	169	4	27	2693	9376	7	48
	08/09	*	*	0	0	20	93	1	7	2967	10389	3	16
	08/10	*	*	0	0	16	75	0	0	1810	5969	3	11
	08/11	*	*	0	0	11	50	0	0	3266	11440	3	7
	08/12	*	*	0	0	3	12	0	0	3066	10114	2	11
	08/13	*	*	0	0	1	4	0	0	1030	3290	2	10
	08/14	*	*	0	0	0	0	0	0	272	815	0	0
	08/16	*	*	0	0	7	32	0	0	4936	16561	10	60
	08/17	*	*	0	0	6	27	0	0	2640	8442	5	30
	08/20	*	*	0	0	1	4	0	0	900	3344	2	19
	08/21	*	*	0	0	2	10	0	0	650	2429	3	21
	08/22	*	*	0	0	0	0	0	0	696	2086	2	10
	08/23	*	*	0	0	20	80	0	0	1140	4611	4	21
	08/25	*	*	0	0	0	0	1	9	1482	4670	1	8
	08/27	*	*	0	0	2	12	1	12	3325	10710	5	25
	TOTAL	*	54	77	1591	501	2551	23	153	68713	231786	189	1215
	AVG. WT.				20.66		5.09		6.65		3.37		6.43
25430	07/22	*	*	0	0	2	12	0	0	420	1693	0	0
	TOTAL	*	*	0	0	2	12	0	0	420	1693	0	0
	AVG. WT.				0.00		6.00		0.00		4.03		0.00
25440	07/03	*	*	0	0	3	9	0	0	163	583	3	18
	07/04	*	*	0	0	2	10	0	0	73	219	0	0
	07/23	*	*	2	49	51	270	0	0	1825	6303	11	65
	07/24	*	*	0	0	25	139	1	7	1617	5983	7	37
	TOTAL	*	4	2	49	81	428	1	7	3678	13088	21	120
	AVG. WT.				24.50		5.28		7.00		3.56		5.71
25720	09/07	*	*	0	0	0	0	150	1344	0	0	0	0
	TOTAL	*	*	0	0	0	0	150	1344	0	0	0	0
	AVG. WT.				0.00		0.00		8.96		0.00		0.00
25741	09/05	*	*	0	0	0	0	275	2350	0	0	142	748
	09/13	*	*	0	0	0	0	12	119	0	0	0	0
	09/17	*	*	0	0	0	0	30	240	0	0	0	0
	TOTAL	*	*	0	0	0	0	317	2709	0	0	142	748
	AVG. WT.				0.00		0.00		8.55		0.00		5.27

-Continued-

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Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				#	Lbs	#	Lbs	#	Lbs	#	Lbs	#	Lbs
25750	09/09	*	*	0	0	0	0	30	277	0	0	4	20
	TOTAL	*	*	0	0	0	0	30	277	0	0	4	20
	AVG. WT.				0.00		0.00		9.23		0.00		5.00
25830	08/15	*	*	0	0	0	0	0	0	148	740	38	280
	08/16	*	*	0	0	0	0	0	0	677	2001	0	0
	08/17	*	*	0	0	0	0	0	0	1350	4025	14	85
	08/19	*	*	0	0	0	0	0	0	700	2135	30	115
	TOTAL	*	4	0	0	0	0	0	0	2875	8901	82	480
	AVG. WT.				0.00		0.00		0.00		3.10		5.85
25840	08/13	*	*	0	0	4	25	0	0	1721	5162	110	690
	TOTAL	*	*	0	0	4	25	0	0	1721	5162	110	690
	AVG. WT.				0.00		6.25		0.00		3.00		6.27
25852	08/21	*	*	0	0	0	0	0	0	300	1105	0	0
	08/26	*	*	0	0	0	0	0	0	1128	2358	260	1517
	TOTAL	*	*	0	0	0	0	0	0	1428	3463	260	1517
	AVG. WT.				0.00		0.00		0.00		2.43		5.83
25854	08/24	*	*	0	0	1	4	1	8	1866	6025	19	90
	TOTAL	*	*	0	0	1	4	1	8	1866	6025	19	90
	AVG. WT.				0.00		4.00		8.00		3.23		4.74
25922	07/27	*	*	0	0	0	0	0	0	121	359	0	0
	07/31	*	*	1	56	1	3	0	0	213	748	4	34
	08/01	*	*	0	0	1	5	0	0	730	2138	11	67
	08/03	*	*	0	0	2	3	5	34	609	1829	6	32
	08/04	*	*	0	0	0	0	2	13	372	1116	1	7
	TOTAL	*	6	1	56	4	11	7	47	2045	6190	22	140
	AVG. WT.				56.00		2.75		6.71		3.03		6.36
25923	08/09	*	*	0	0	0	0	0	0	2569	6165	0	0
	TOTAL	*	*	0	0	0	0	0	0	2569	6165	0	0
	AVG. WT.				0.00		0.00		0.00		2.40		0.00
25924	08/07	*	*	0	0	0	0	0	0	774	2321	0	0
	08/09	*	*	0	0	0	0	0	0	692	2076	0	0
	08/11	*	*	0	0	1	6	1	10	734	2202	2	12
	08/16	*	*	0	0	0	0	0	0	495	1486	0	0
	08/17	*	*	0	0	0	0	0	0	464	1392	0	0
	TOTAL	*	5	0	0	1	6	1	10	3159	9477	2	12
	AVG. WT.				0.00		6.00		10.00		3.00		6.00
Beach Seine Total		9	165	82	1727	774	3696	546	4681	127078	410528	1140	7127
Avg. Wt.					21.06		4.78		8.57		3.23		6.25

"*" Due to confidentiality this information may not be released.

APPENDIX Q

Subsistence

SUBSISTENCE FINFISH

KODIAK AREA

ARTICLE 10. - KODIAK AREA.

5 AAC 01.500. DESCRIPTION OF KODIAK AREA. The Kodiak Area includes all waters of Alaska south of a line extending east from Cape Douglas (58°52' N. lat.), west of 150° W. long., north of 55°30' N. lat.; and east of the longitude of the southern entrance of Imuya Bay near Kilokak Rocks (156°20'13" W. long.).

5 AAC 01.510. FISHING SEASONS.(a) Salmon may be taken for subsistence purposes from 6:00 a.m. until 9:00 p.m. from January 1 through December 31, with the following exceptions:

(1) from June 1 through September 15, salmon seine vessels may not be used to take subsistence salmon for 24 hours before, during, and for 24 hours after any open commercial salmon fishing period;

(2) from June 1 through September 15, purse seine vessels may be used to take salmon only with gill nets and no other type of salmon gear may be on board the vessel.

(c) Fish, other than salmon, rainbow trout and steelhead trout, may be taken at any time unless restricted by the terms of a subsistence fishing permit. Rainbow trout and steelhead trout, taken incidentally in other subsistence finfish net fisheries, are lawfully taken and may be retained for subsistence purposes.

5 AAC 01.520. LAWFUL GEAR AND GEAR SPECIFICATIONS.(a) Unless restricted by this section or under the terms of a subsistence fishing permit, fish may be taken by gear listed in 5 AAC 01.010(a).

(b) Salmon may be taken only by gill net and seine.

(c) Halibut may be taken only by a single hand-held line with not more than two hooks attached to it.

(d) Subsistence fishermen must be physically present at the net at all times the net is being fished.

5 AAC 01.525. WATERS CLOSED TO SUBSISTENCE FISHING. The following locations are closed to the subsistence taking of salmon:

(1) all waters of Mill Bay and all those waters bounded by a line from Spruce Cape to the northernmost point of Woody Island, then to the northernmost point of Holiday Island, then to a point on Near Island opposite the Kodiak small boat harbor entrance and then to the small boat harbor entrance;

(2) all freshwater systems of Little Afognak River and Portage Creek drainage in Discoverer Bay;

(4) all waters closed to commercial salmon fishing in the Barbara Cove, Chiniak Bay, Saltery Cove, Pasagshak Bay, Monashka Bay and Anton Larsen Bay as described in 5 AAC 18.350, and all waters closed to commercial salmon fishing within 100 yards of the terminus of Selief Bay Creek and north and west of a line from the tip of Last Point to the tip of River Mouth Point in Afognak Bay;

(6) all waters 300 yards seaward of the terminus of Monks Creek;

(7) from August 15 through September 30, all waters 500 yards seaward of the terminus of Little Kitoi Creek;

(8) all freshwater systems of Afognak Island;

(9) all waters of Ouzinkie Harbor north of a line from 57°55'10" N. lat., 152°36' W. long. to 57°55'03" N. lat., 152°29'20" W. long.

5 AAC 01.530. SUBSISTENCE FISHING PERMITS. (a) A subsistence fishing permit is required for taking salmon, trout and char for subsistence purposes. A subsistence fishing permit is required for taking herring and bottomfish for subsistence purposes during the commercial herring sac roe season from May 1 through June 30. (b) A subsistence salmon fishing permit allows the holder to take 25 salmon plus an additional 25 salmon for each member of the same household whose names are listed on the permit. An additional permit may be obtained if it can be shown that more fish are needed.

(c) All subsistence fishermen shall keep a record of the number of subsistence fish taken each year. The number of subsistence fish taken shall be recorded on the reverse side of the permit. The record must be completed immediately upon landing subsistence-caught fish and must be returned to the local representative of the department by February 1 of the year following the year the permit was issued.

5 AAC 01.536. CUSTOMARY AND TRADITIONAL SUBSISTENCE USES OF FISH STOCKS. The Alaska Board of Fisheries finds that salmon and finfish other than salmon, except steelhead and rainbow trout, in the Kodiak Area, except that portion described in 5 AAC 18.200(g), are customarily and traditionally taken or used for subsistence.

5 AAC 01.545. SUBSISTENCE BAG AND POSSESSION LIMITS. The daily bag limit for halibut is two fish and the possession limit is two daily bag limits. No person may possess sport-taken and subsistence-taken halibut on the same day.

Appendix Q.2. Example of subsistence salmon permit for the Kodiak Management Area, 1993.

EXAMPLE OF COMPLETED SUBSISTENCE PERMIT

KODIAK SALMON SUBSISTENCE PERMIT

PERMIT 000

DEPARTMENT SIGNATURE *M. Bickert* DATE 4/15/92

PERMITTEE NAME John Doe YEAR 1992

ADDRESS 123 Main St.
Anytown, Alaska

I CERTIFY THAT I AM AN ALASKAN RESIDENT, AND ANY SALMON TAKEN WILL BE USED FOR SUBSISTENCE PURPOSES ONLY.

PERMITTEE SIGNATURE *John Doe* DATE 4/15/92

ADDITIONAL MEMBERS OF SAME HOUSEHOLD TO BE INCLUDED ON PERMIT (RESIDENTS ONLY) Jane, Joan, David

TOTAL NUMBER OF SALMON PROVIDED FOR ON THIS PERMIT 100

Subsistence fisherman's name and address

Subsistence fisherman's signature and date

Names of household members for whom the permittee will be collecting subsistence salmon

Number of salmon provided for on permit (25 per family member)

SUBSISTENCE HARVEST LOG

TRIP DATE	SPECIFIC LOCATION	NUMBER OF SALMON BY SPECIES					TOTAL
		CHINOOK	SOCKEYE	CORO	PINKS	CRUMS	

PLEASE RETURN THIS PERMIT BY JANUARY 31, 19 93
TO: ALASKA DEPARTMENT OF FISH & GAME, 211 MISSION ROAD, KODIAK, AK 99615

SALMON SUBSISTENCE FISHERMAN REMINDER

- BE FAMILIAR WITH ALL SUBSISTENCE REGULATIONS DISTRIBUTED WITH THIS PERMIT. ADDITIONAL COPIES OF REGULATIONS AVAILABLE AT KODIAK FISH AND GAME OFFICE.
- ALL PERSONS MUST HAVE A VALID SALMON SUBSISTENCE PERMIT IN POSSESSION WHILE TAKING OR ATTEMPTING TO TAKE SUBSISTENCE SALMON. PERSONAL SUBSISTENCE PERMITS ARE NON-TRANSFERABLE.
- SUBSISTENCE SALMON FISHING IS ALLOWED DAILY BETWEEN 6:00 A.M. AND 9:00 P.M.
- LAWFUL GEAR: GILLNET (MAXIMUM LENGTH 50 FATHOMS) AND SEINE. PURSE SEINES MAY BE USED FOR SUBSISTENCE FISHING ONLY BEFORE JUNE 1 AND AFTER SEPTEMBER 15. SALMON SEINE VESSELS MAY NOT BE USED FOR 24 HOURS BEFORE, DURING, OR FOR 24 HOURS AFTER ANY OPEN COMMERCIAL SALMON FISHING PERIOD.
- THIS PERMIT EXPIRES DECEMBER 31, AND CATCH REPORTS ARE DUE BY JANUARY 31. CATCH REPORTS MUST BE SUBMITTED TO ADFA&G BEFORE A NEW PERMIT WILL BE ISSUED.
- COMPLETE THE SUBSISTENCE HARVEST LOG ABOVE IMMEDIATELY UPON LANDING FISH.
- FOR EACH SUBSISTENCE TRIP RECORD DATE, LOCATION, AND HARVEST BY NUMBER OF FISH. UNSUCCESSFUL TRIPS SHOULD ALSO BE RECORDED.
- LOCATION OF HARVEST SHOULD BE IDENTIFIED BY STREAM, BAY, NEAREST HEADLAND, AND/OR NEAREST GEOGRAPHICAL FEATURE.
- QUESTIONS ABOUT SUBSISTENCE FISHING MAY BE DIRECTED TO KODIAK FISH AND GAME OFFICE AT 211 MISSION ROAD, KODIAK, ALASKA 99615, OR BY TELEPHONING 486-1830.

APPENDIX R

Tide Tables

Appendix R.1. Kodiak and Seldovia tide tables, 1993.

1993 Tides KODIAK District

HIGH JUNE						LOW JUNE					
DATE DAY	DOT'S GUIDE	A.M. TIME	FT	P.M. TIME	FT.	A.M. TIME	FT.	P.M. TIME	FT.		
1	Tues ●	.....	...	12:31	6.5	6:15	-0.5	5:51	1.9
2	Wed ●	0:15	9.7	1:32	6.8	7:08	-1.3	6:44	1.9		
3	Thur ●	1:03	10.0	2:24	7.1	7:58	-1.9	7:38	2.0		
4	Fri ●	1:50	10.2	3:14	7.3	8:45	-2.2	8:25	2.0		
5	Sat ●	2:36	10.1	3:57	7.4	9:27	-2.2	9:12	2.0		
6	SUN ●	3:21	9.9	4:41	7.3	10:10	-2.0	9:58	2.2		
7	Mon ●	4:01	9.4	5:24	7.3	10:49	-1.5	10:44	2.3		
8	Tues ●	4:45	8.8	6:06	7.2	11:31	-1.0	11:32	2.5		
9	Wed ●	5:27	8.0	6:48	7.1	.....	...	12:11	-0.3
10	Thur ●	6:14	7.2	7:33	7.0	0:25	2.7	12:49	0.4		
11	Fri ●	7:06	6.4	8:19	7.1	1:18	2.8	1:31	1.0		
12	Sat ●	8:07	5.7	9:08	7.2	2:24	2.7	2:13	1.7		
13	SUN ●	9:23	5.3	9:55	7.4	3:34	2.4	3:02	2.2		
14	Mon ●	10:45	5.1	10:45	7.7	4:43	1.8	3:57	2.6		
15	Tues ●	11:54	5.3	11:30	8.1	5:41	1.2	4:53	2.8		
16	Wed ●	.....	...	12:50	5.6	6:31	0.5	5:46	2.8
17	Thur ●	0:13	8.5	1:40	6.0	7:13	-0.2	6:36	2.8		
18	Fri ●	0:55	9.0	2:22	6.3	7:54	-0.8	7:23	2.6		
19	Sat ●	1:35	9.3	3:02	6.7	8:33	-1.4	8:06	2.4		
20	SUN ●	2:17	9.6	3:41	7.0	9:12	-1.7	8:51	2.2		
21	Mon ●	2:59	9.7	4:20	7.3	9:51	-1.9	9:37	2.1		
22	Tues ●	3:41	9.6	5:00	7.5	10:28	-1.9	10:23	1.9		
23	Wed ●	4:26	9.3	5:40	7.8	11:09	-1.6	11:15	1.8		
24	Thur ●	5:15	8.7	6:22	8.0	11:48	-1.2	.....	...
25	Fri ●	6:07	7.9	7:10	8.2	0:11	1.7	12:33	-0.4		
26	Sat ●	7:07	7.0	8:00	8.4	1:15	1.5	1:20	0.4		
27	SUN ●	8:23	6.2	8:57	8.6	2:26	1.3	2:11	1.2		
28	Mon ●	9:47	5.7	9:57	8.8	3:44	0.9	3:13	1.9		
29	Tues ●	11:14	5.6	10:58	9.1	4:58	0.2	4:19	2.4		
30	Wed ●	12:28	5.9	11:54	9.4	6:03	-0.4	5:28	2.6		

A.M. TIDES LITE TYPE ● BIGGER THE DOT — BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides SELDOVIA District

HIGH JUNE						LOW JUNE					
DATE DAY	DOT'S GUIDE	A.M. TIME	FT	P.M. TIME	FT	A.M. TIME	FT	P.M. TIME	FT		
1	Tues ●	0:01	18.3	1:03	16.0	6:39	-1.3	6:44	2.3		
2	Wed ●	0:54	19.2	2:00	17.0	7:31	-2.8	7:36	2.0		
3	Thur ●	1:42	19.9	2:51	17.9	8:19	-3.9	8:25	1.7		
4	Fri ●	2:30	20.3	3:38	18.4	9:05	-4.5	9:12	1.5		
5	Sat ●	3:15	20.3	4:23	18.5	9:49	-4.4	9:59	1.7		
6	SUN ●	3:58	19.9	5:05	18.2	10:31	-3.9	10:44	2.0		
7	Mon ●	4:40	19.0	5:47	17.7	11:13	-2.9	11:27	2.6		
8	Tues ●	5:25	17.9	6:29	17.0	11:52	-1.6	.....	...
9	Wed ●	6:08	16.5	7:11	16.2	0:13	3.3	12:35	-0.1		
10	Thur ●	6:53	15.0	7:54	15.4	0:59	4.1	1:14	1.5		
11	Fri ●	7:48	13.6	8:41	14.9	1:54	4.6	1:57	3.0		
12	Sat ●	8:47	12.6	9:28	14.6	2:55	4.9	2:50	4.3		
13	SUN ●	9:59	12.0	10:21	14.7	4:03	4.7	3:49	5.3		
14	Mon ●	11:16	12.1	11:12	15.0	5:09	4.0	4:52	5.8		
15	Tues ●	.....	...	12:22	12.8	6:04	2.9	5:53	5.8
16	Wed ●	0:02	15.7	1:19	13.8	6:54	1.5	6:44	5.5		
17	Thur ●	0:49	16.5	2:06	14.9	7:35	0.2	7:31	4.8		
18	Fri ●	1:31	17.5	2:47	15.9	8:16	-1.1	8:16	4.1		
19	Sat ●	2:15	18.4	3:25	16.9	8:53	-2.3	8:58	3.4		
20	SUN ●	2:57	19.1	4:06	17.6	9:33	-3.1	9:40	2.7		
21	Mon ●	3:39	19.5	4:45	18.1	10:12	-3.6	10:24	2.2		
22	Tues ●	4:24	19.6	5:25	18.3	10:53	-3.7	11:07	1.9		
23	Wed ●	5:07	19.1	6:06	18.4	11:34	-3.2	11:55	1.8		
24	Thur ●	5:58	18.2	6:51	18.2	.....	...	12:19	-2.3
25	Fri ●	6:51	16.9	7:38	18.0	0:48	1.8	1:06	-0.8		
26	Sat ●	7:53	15.6	8:29	17.6	1:46	1.8	1:59	0.8		
27	SUN ●	9:03	14.4	9:26	17.4	2:52	1.8	2:58	2.4		
28	Mon ●	10:24	13.8	10:28	17.4	4:05	1.3	4:07	3.6		
29	Tues ●	11:46	14.1	11:32	17.7	5:19	0.5	5:16	4.1		
30	Wed ●	.....	...	12:57	14.9	6:25	-0.7	6:25	4.0

A.M. TIDES LITE TYPE ● BIGGER THE DOT — BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides KODIAK District									
HIGH JULY					LOW JULY				
DATE DAY	DOTS GUIDE	A.M. TIME	FT.	P.M. TIME	FT.	A.M. TIME	FT.	P.M. TIME	FT.
1	Thur •	.....	...	1:27	6.3	7:00	-1.1	6:28	2.5
2	Fri •	0:50	9.6	2:17	6.7	7:50	-1.5	7:23	2.4
3	Sat •	1:38	9.8	3:01	7.0	8:33	-1.8	8:14	2.2
4	SUN •	2:24	9.7	3:41	7.3	9:14	-1.8	9:00	2.0
5	Mon •	3:06	9.5	4:20	7.5	9:52	-1.6	9:42	2.0
6	Tues •	3:45	9.2	4:55	7.6	10:24	-1.3	10:23	2.0
7	Wed •	4:23	8.6	5:29	7.6	11:00	-0.8	11:05	2.0
8	Thur •	5:03	8.0	6:04	7.5	11:32	-0.3	11:50	2.1
9	Fri •	5:40	7.2	6:38	7.5	.....	...	12:04	0.4
10	Sat •	6:25	6.5	7:18	7.5	0:38	2.2	12:35	1.1
11	SUN •	7:18	5.7	7:57	7.4	1:32	2.2	1:10	1.7
12	Mon •	8:24	5.1	8:50	7.5	2:37	2.1	1:55	2.3
13	Tues •	9:48	4.7	9:43	7.6	3:50	1.9	2:48	2.8
14	Wed •	11:17	4.8	10:41	7.9	4:59	1.4	3:53	3.1
15	Thur •	12:26	5.2	11:35	8.4	5:58	0.7	5:04	3.2
16	Fri •	.....	...	1:16	5.7	6:47	-0.1	6:05	3.0
17	Sat •	0:28	8.9	1:58	6.3	7:31	-0.8	6:58	2.6
18	SUN •	1:16	9.4	2:37	6.9	8:12	-1.4	7:49	2.1
19	Mon •	2:01	9.8	3:15	7.4	8:49	-1.8	8:36	1.6
20	Tues •	2:45	9.9	3:51	7.9	9:27	-2.0	9:24	1.2
21	Wed •	3:30	9.8	4:30	8.4	10:06	-1.9	10:12	0.8
22	Thur •	4:16	9.4	5:09	8.7	10:43	-1.5	11:03	0.6
23	Fri •	5:03	8.7	5:50	8.9	11:24	-0.9	11:58	0.5
24	Sat •	5:58	7.8	6:35	8.9	.....	...	12:04	0.0
25	SUN •	6:57	6.8	7:26	8.8	0:57	0.6	12:50	0.9
26	Mon •	8:12	5.9	8:23	8.7	2:07	0.7	1:39	1.7
27	Tues •	9:39	5.3	9:30	8.6	3:23	0.6	2:44	2.5
28	Wed •	11:10	5.3	10:40	8.7	4:45	0.3	4:00	2.9
29	Thur •	12:24	5.7	11:44	8.8	5:55	-0.2	5:17	3.0
30	Fri •	.....	...	1:21	6.2	6:52	-0.6	6:22	2.7
31	Sat •	0:40	9.1	2:04	6.7	7:38	-1.0	7:17	2.3

A.M. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides SELDOVIA District									
HIGH JULY					LOW JULY				
DATE DAY	DOTS GUIDE	A.M. TIME	FT.	P.M. TIME	FT.	A.M. TIME	FT.	P.M. TIME	FT.
1	Thur •	0:33	18.2	1:55	16.0	7:21	-1.8	7:23	3.5
2	Fri •	1:29	18.7	2:46	17.0	8:11	-2.7	8:14	2.8
3	Sat •	2:19	19.2	3:28	17.8	8:56	-3.3	9:01	2.3
4	SUN •	3:01	19.5	4:08	18.3	9:36	-3.4	9:43	1.9
5	Mon •	3:43	19.4	4:43	18.4	10:14	-3.1	10:25	1.9
6	Tues •	4:24	19.0	5:20	18.2	10:49	-2.4	11:05	2.1
7	Wed •	5:04	18.2	5:55	17.8	11:25	-1.4	11:47	2.5
8	Thur •	5:42	17.1	6:29	17.3	11:58	-0.1	.....	.....
9	Fri •	6:24	15.9	7:03	16.6	0:27	3.0	12:33	1.3
10	Sat •	7:09	14.5	7:38	15.9	1:09	3.6	1:09	2.9
11	SUN •	7:59	13.2	8:21	15.3	1:57	4.2	1:51	4.5
12	Mon •	9:03	12.1	9:11	14.8	2:57	4.5	2:42	5.8
13	Tues •	10:21	11.6	10:08	14.7	4:06	4.4	3:48	6.8
14	Wed •	11:45	12.0	11:11	15.1	5:19	3.7	5:03	7.1
15	Thur •	.....	...	12:54	13.1	6:20	2.5	6:09	6.6
16	Fri •	0:12	16.0	1:45	14.4	7:10	0.9	7:05	5.6
17	Sat •	1:07	17.2	2:27	15.9	7:52	-0.7	7:55	4.3
18	SUN •	1:56	18.5	3:05	17.3	8:33	-2.2	8:40	3.0
19	Mon •	2:41	19.7	3:42	18.5	9:13	-3.3	9:23	1.7
20	Tues •	3:27	20.5	4:21	19.5	9:52	-4.0	10:06	0.6
21	Wed •	4:12	20.8	4:59	20.1	10:32	-4.1	10:51	-0.1
22	Thur •	4:57	20.4	5:38	20.3	11:13	-3.5	11:39	-0.4
23	Fri •	5:46	19.4	6:19	20.1	11:55	-2.2	.....	.....
24	Sat •	6:37	17.9	7:04	19.5	0:27	-0.2	12:42	-0.5
25	SUN •	7:36	16.2	7:54	18.6	1:24	0.3	1:33	1.5
26	Mon •	8:44	14.6	8:51	17.6	2:26	1.0	2:29	3.5
27	Tues •	10:08	13.6	9:59	16.9	3:39	1.4	3:41	5.0
28	Wed •	11:37	13.7	11:12	16.7	5:02	1.3	5:00	5.5
29	Thur •	.....	...	12:54	14.6	6:17	0.4	6:17	5.2
30	Fri •	0:22	17.1	1:50	15.9	7:15	-0.5	7:18	4.3
31	Sat •	1:23	17.8	2:35	17.0	8:03	-1.3	8:08	3.3

A.M. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides KODIAK District

HIGH AUGUST					LOW AUGUST				
DATE DAY	DOT'S GUIDE	A.M. TIME	FT.	P.M. TIME	FT.	A.M. TIME	FT.	P.M. TIME	FT.
1 SUN	•	1:29	9.2	2:43	7.2	8:17	-1.2	8:04	1.9
2 Mon	•	2:12	9.3	3:16	7.5	8:54	-1.2	8:46	1.6
3 Tues	•	2:51	9.1	3:47	7.8	9:26	-1.1	9:25	1.4
4 Wed	•	3:29	8.9	4:16	7.9	9:54	-0.8	10:01	1.2
5 Thur	•	4:04	8.4	4:47	8.0	10:25	-0.4	10:39	1.2
6 Fri	•	4:39	7.9	5:16	8.0	10:52	0.1	11:16	1.3
7 Sat	•	5:15	7.2	5:45	7.9	11:20	0.7	11:57	1.4
8 SUN	●	5:53	6.5	6:17	7.7	11:50	1.3	.....	....
9 Mon	●	6:38	5.8	6:57	7.6	0:43	1.6	12:22	2.0
10 Tues	●	7:36	5.1	7:44	7.5	1:42	1.8	12:59	2.5
11 Wed	●	9:03	4.6	8:47	7.4	2:51	1.8	1:51	3.1
12 Thur	●	10:42	4.7	10:00	7.6	4:13	1.5	3:08	3.4
13 Fri	●	11:55	5.2	11:06	8.1	5:22	0.9	4:32	3.3
14 Sat	●	12:47	5.8	6:15	0.1	5:44	2.9
15 SUN	●	0:05	8.7	1:29	6.6	7:02	-0.6	6:42	2.2
16 Mon	●	0:57	9.2	2:05	7.4	7:43	-1.2	7:35	1.4
17 Tues	●	1:46	9.7	2:40	8.1	8:22	-1.5	8:22	0.6
18 Wed	●	2:33	9.9	3:18	8.8	8:59	-1.6	9:10	-0.1
19 Thur	●	3:20	9.7	3:54	9.3	9:39	-1.4	9:58	-0.5
20 Fri	●	4:06	9.3	4:34	9.6	10:15	-1.0	10:48	-0.7
21 Sat	●	4:55	8.5	5:16	9.6	10:55	-0.3	11:40	-0.6
22 SUN	●	5:48	7.6	6:01	9.4	11:37	0.6	.....	....
23 Mon	●	6:49	6.6	6:51	8.9	0:38	-0.2	12:22	1.5
24 Tues	●	8:01	5.8	7:55	8.5	1:42	0.2	1:16	2.3
25 Wed	●	9:33	5.3	9:09	8.1	3:01	0.5	2:27	3.0
26 Thur	●	11:03	5.5	10:27	8.0	4:27	0.4	3:56	3.2
27 Fri	●	12:11	5.9	11:36	8.1	5:38	0.3	5:18	3.0
28 Sat	●	1:00	6.5	6:34	0.0	6:23	2.5
29 SUN	•	0:32	8.4	1:39	7.0	7:16	-0.3	7:11	1.9
30 Mon	•	1:19	8.6	2:11	7.5	7:53	-0.4	7:53	1.4
31 Tues	•	1:59	8.7	2:39	7.9	8:25	-0.4	8:28	1.0

A.M. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides SELDOVIA District

HIGH AUGUST					LOW AUGUST				
DATE DAY	DOT'S GUIDE	A.M. TIME	FT.	P.M. TIME	FT.	A.M. TIME	FT.	P.M. TIME	FT.
1 SUN	•	2:09	18.6	3:12	17.9	8:42	-1.9	8:49	2.3
2 Mon	•	2:53	19.1	3:46	18.6	9:18	-2.1	9:27	1.7
3 Tues	•	3:30	19.4	4:17	18.9	9:50	-2.0	10:04	1.3
4 Wed	•	4:07	19.3	4:46	19.0	10:22	-1.5	10:40	1.2
5 Thur	•	4:41	18.8	5:15	18.8	10:54	-0.7	11:13	1.4
6 Fri	•	5:18	18.0	5:42	18.3	11:23	0.5	11:50	1.9
7 Sat	•	5:55	16.8	6:14	17.6	11:55	1.8	.....	....
8 SUN	●	6:35	15.5	6:45	16.8	0:27	2.6	12:27	3.4
9 Mon	●	7:19	14.0	7:22	15.9	1:06	3.4	1:04	4.9
10 Tues	●	8:15	12.6	8:09	15.1	1:57	4.2	1:49	6.4
11 Wed	●	9:33	11.8	9:11	14.5	3:03	4.7	2:52	7.6
12 Thur	●	11:09	11.9	10:30	14.7	4:26	4.5	4:21	7.9
13 Fri	●	12:28	13.1	11:45	15.6	5:45	3.4	5:43	7.2
14 Sat	●	1:18	14.7	6:41	1.7	6:46	5.7
15 SUN	●	0:46	17.1	1:59	16.5	7:29	-0.1	7:34	3.8
16 Mon	●	1:40	18.8	2:37	18.3	8:11	-1.8	8:22	1.8
17 Tues	●	2:27	20.4	3:12	19.9	8:49	-3.0	9:04	0.0
18 Wed	●	3:12	21.4	3:50	21.2	9:30	-3.7	9:49	-1.4
19 Thur	●	3:57	21.8	4:27	21.9	10:09	-3.6	10:32	-2.2
20 Fri	●	4:44	21.5	5:07	22.0	10:49	-2.8	11:18	-2.3
21 Sat	●	5:31	20.4	5:47	21.4	11:33	-1.4	.....	....
22 SUN	●	6:24	18.7	6:32	20.3	0:06	-1.8	12:16	0.6
23 Mon	●	7:20	16.7	7:20	18.8	0:59	-0.6	1:08	2.7
24 Tues	●	8:29	14.9	8:21	17.2	1:57	0.8	2:07	4.7
25 Wed	●	9:56	13.8	9:35	16.0	3:14	2.0	3:24	6.2
26 Thur	●	11:32	13.9	11:01	15.7	4:45	2.2	4:55	6.4
27 Fri	●	12:44	15.0	6:09	1.8	6:12	5.6
28 Sat	●	0:20	16.2	1:34	16.2	7:02	0.9	7:11	4.3
29 SUN	•	1:15	17.2	2:15	17.3	7:47	0.2	7:55	3.1
30 Mon	•	2:01	18.1	2:48	18.3	8:23	-0.3	8:32	1.9
31 Tues	•	2:39	18.8	3:15	19.0	8:53	-0.6	9:07	1.0

A.M. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides KODIAK District

HIGH SEPTEMBER						LOW SEPTEMBER					
DATE DAY	DOTS GUIDE	AM. TIME	FT.	P.M. TIME	FT.	AM. TIME	FT.	P.M. TIME	FT.		
1 Wed	•	2:38	8.6	3:08	8.2	8:54	-0.3	9:04	0.6		
2 Thur	•	3:11	8.4	3:36	8.3	9:20	-0.1	9:36	0.4		
3 Fri	•	3:45	8.1	4:01	8.4	9:47	0.3	10:11	0.3		
4 Sat	•	4:18	7.6	4:30	8.4	10:13	0.7	10:46	0.4		
5 SUN	•	4:54	7.1	4:57	8.2	10:41	1.2	11:25	0.6		
6 Mon	•	5:29	6.5	5:27	8.0	11:11	1.8	.....	...
7 Tues	•	6:12	5.8	6:04	7.8	0:07	0.9	11:41	2.3		
8 Wed	•	7:08	5.2	6:49	7.5	0:57	1.2	12:20	2.8		
9 Thur	•	8:27	4.9	7:55	7.3	2:03	1.4	1:16	3.3		
10 Fri	•	10:03	5.0	9:18	7.3	3:21	1.3	2:44	3.5		
11 Sat	•	11:18	5.5	10:37	7.7	4:35	0.9	4:15	3.2		
12 SUN	•	12:08	6.3	11:43	8.2	5:38	0.4	5:28	2.5		
13 Mon	•	12:47	7.2	6:24	-0.2	6:28	1.5		
14 Tues	•	0:42	8.8	1:27	8.1	7:08	-0.6	7:21	0.4		
15 Wed	•	1:32	9.2	2:04	9.0	7:50	-0.9	8:06	-0.6		
16 Thur	•	2:20	9.4	2:42	9.7	8:28	-0.9	8:55	-1.3		
17 Fri	•	3:09	9.3	3:21	10.1	9:07	-0.6	9:43	-1.7		
18 Sat	•	3:57	8.9	4:00	10.2	9:49	-0.1	10:29	-1.8		
19 SUN	•	4:46	8.2	4:44	10.0	10:28	0.5	11:21	-1.4		
20 Mon	•	5:40	7.4	5:29	9.5	11:13	1.3	.....	...
21 Tues	•	6:38	6.6	6:21	8.8	0:17	-0.8	11:58	2.1		
22 Wed	•	7:51	5.9	7:25	8.1	1:19	-0.1	12:57	2.8		
23 Thur	•	9:15	5.7	8:45	7.5	2:34	0.5	2:17	3.3		
24 Fri	•	10:37	5.9	10:08	7.3	3:55	0.8	3:54	3.3		
25 Sat	•	11:43	6.3	11:20	7.3	5:04	0.7	5:15	2.8		
26 SUN	•	12:25	6.9	6:00	0.6	6:14	2.1		
27 Mon	•	0:18	7.6	1:00	7.4	6:42	0.5	6:58	1.5		
28 Tues	•	1:03	7.8	1:32	7.9	7:18	0.5	7:37	0.8		
29 Wed	•	1:43	7.9	2:01	8.3	7:47	0.5	8:09	0.3		
30 Thur	•	2:21	7.9	2:28	8.6	8:15	0.5	8:41	-0.1		

AM. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides SELDOVIA District

HIGH SEPTEMBER						LOW SEPTEMBER					
DATE DAY	DOTS GUIDE	AM. TIME	FT.	P.M. TIME	FT.	AM. TIME	FT.	P.M. TIME	FT.		
1 Wed	•	3:12	19.3	3:41	19.5	9:21	-0.5	9:39	0.5		
2 Thur	•	3:47	19.5	4:07	19.7	9:52	-0.1	10:11	0.2		
3 Fri	•	4:19	19.2	4:33	19.6	10:21	0.5	10:44	0.4		
4 Sat	•	4:54	18.6	5:02	19.1	10:49	1.5	11:15	0.9		
5 SUN	•	5:29	17.5	5:29	18.4	11:21	2.7	11:50	1.6		
6 Mon	•	6:06	16.2	5:58	17.5	11:53	4.1	.....	...
7 Tues	•	6:48	14.7	6:32	16.4	0:26	2.6	12:27	5.5		
8 Wed	•	7:41	13.3	7:17	15.3	1:12	3.6	1:12	6.9		
9 Thur	•	8:57	12.4	8:21	14.5	2:13	4.4	2:18	8.0		
10 Fri	•	10:32	12.4	9:55	14.3	3:36	4.6	3:54	8.2		
11 Sat	•	11:51	13.7	11:22	15.3	5:04	3.8	5:22	7.1		
12 SUN	•	12:44	15.4	6:09	2.3	6:25	5.1		
13 Mon	•	0:28	17.0	1:23	17.5	6:57	0.6	7:15	2.7		
14 Tues	•	1:23	18.9	2:03	19.5	7:42	-1.0	8:00	0.3		
15 Wed	•	2:11	20.6	2:40	21.2	8:23	-2.1	8:45	-1.8		
16 Thur	•	2:57	21.7	3:18	22.5	9:04	-2.6	9:28	-3.3		
17 Fri	•	3:43	22.1	3:56	23.1	9:43	-2.4	10:11	-4.0		
18 Sat	•	4:29	21.8	4:36	22.9	10:25	-1.5	10:56	-3.8		
19 SUN	•	5:18	20.7	5:17	22.0	11:09	-0.1	11:44	-2.8		
20 Mon	•	6:08	19.0	6:03	20.4	11:55	1.8	.....	...
21 Tues	•	7:04	17.1	6:53	18.5	0:35	-1.1	12:45	3.8		
22 Wed	•	8:13	15.3	7:54	16.5	1:35	0.8	1:49	5.6		
23 Thur	•	9:37	14.3	9:13	15.1	2:46	2.4	3:11	6.7		
24 Fri	•	11:08	14.4	10:50	14.7	4:19	3.2	4:46	6.6		
25 Sat	•	12:17	15.4	5:41	3.0	6:05	5.5		
26 SUN	•	0:09	15.4	1:05	16.4	6:38	2.4	6:57	4.0		
27 Mon	•	1:02	16.3	1:42	17.5	7:19	1.9	7:37	2.6		
28 Tues	•	1:45	17.3	2:09	18.4	7:52	1.5	8:11	1.4		
29 Wed	•	2:19	18.2	2:37	19.1	8:23	1.3	8:43	0.4		
30 Thur	•	2:53	18.8	3:02	19.7	8:51	1.1	9:13	-0.3		

AM. TIDES LITE TYPE • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES BOLD TYPE
ALASKA DAYLIGHT TIME

1993 Tides KODIAK District

HIGH OCTOBER						LOW OCTOBER					
DATE DAY	DOT'S GUIDE	AM TIME	AM FT.	PM TIME	PM FT.	AM TIME	AM FT.	PM TIME	PM FT.		
1 Fri	●	2:55	7.8	2:54	8.7	8:44	0.8	9:16	-0.3		
2 Sat	●	3:29	7.6	3:23	8.8	9:12	1.1	9:49	-0.4		
3 SUN	●	4:03	7.3	3:51	8.7	9:41	1.4	10:21	-0.3		
4 Mon	●	4:38	6.9	4:18	8.5	10:09	1.8	10:59	-0.1		
5 Tues	●	5:16	6.4	4:49	8.3	10:41	2.3	11:38	0.2		
6 Wed	●	6:00	6.0	5:25	8.0	11:13	2.7	.....	....
7 Thur	●	6:56	5.6	6:14	7.6	0:27	0.5	11:58	3.1		
8 Fri	●	8:05	5.4	7:19	7.2	1:26	0.8	1:02	3.4		
9 Sat	●	9:24	5.6	8:42	7.0	2:34	1.0	2:30	3.4		
10 SUN	●	10:32	6.2	10:11	7.2	3:47	0.9	4:01	2.9		
11 Mon	●	11:25	7.0	11:24	7.6	4:48	0.7	5:14	1.9		
12 Tues	●	12:07	7.9	5:43	0.4	6:13	0.7		
13 Wed	●	0:26	8.1	12:48	8.9	6:29	0.2	7:05	-0.5		
14 Thur	●	1:20	8.4	1:29	9.7	7:14	0.1	7:54	-1.5		
15 Fri	●	2:11	8.6	2:10	10.3	7:59	0.2	8:40	-2.2		
16 Sat	●	2:59	8.6	2:52	10.6	8:41	0.4	9:28	-2.5		
17 SUN	●	3:49	8.3	3:34	10.6	9:23	0.8	10:15	-2.4		
18 Mon	●	4:38	7.9	4:18	10.2	10:07	1.2	11:03	-1.9		
19 Tues	●	5:32	7.3	5:03	9.5	10:51	1.8	11:56	-1.2		
20 Wed	●	6:27	6.7	5:56	8.6	11:45	2.4	.....	....
21 Thur	●	7:33	6.3	6:56	7.7	0:54	-0.4	12:46	3.0		
22 Fri	●	8:46	6.2	8:13	7.0	1:57	0.4	2:06	3.3		
23 Sat	●	9:55	6.3	9:36	6.5	3:06	0.9	3:34	3.1		
24 SUN	●	10:53	6.7	10:53	6.5	4:12	1.2	4:56	2.6		
25 Mon	●	11:39	7.2	11:51	6.6	5:08	1.4	5:51	1.9		
26 Tues	●	12:18	7.7	5:54	1.4	6:37	1.1		
27 Wed	●	0:44	6.8	12:50	8.1	6:32	1.5	7:15	0.5		
28 Thur	●	1:25	7.0	1:21	8.5	7:05	1.4	7:51	-0.1		
29 Fri	●	2:04	7.1	1:50	8.8	7:39	1.6	8:23	-0.6		
30 Sat	●	2:40	7.2	2:20	9.0	8:11	1.7	8:55	-0.9		

DAYLIGHT TIME ENDS 2 A.M.

31 SUN	●	2:15	7.2	1:49	9.1	7:43	1.8	8:30
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A.M. TIDES • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES
LITE TYPE DAYLIGHT TIME THRU OCTOBER 30 BOLD TYPE

1993 Tides SELDOVIA District

HIGH OCTOBER						LOW OCTOBER					
DATE DAY	DOT'S GUIDE	AM TIME	AM FT.	PM TIME	PM FT.	AM TIME	AM FT.	PM TIME	PM FT.		
1 Fri	●	3:26	19.2	3:28	20.0	9:20	1.4	9:43	-0.6		
2 Sat	●	3:59	19.1	3:55	19.9	9:50	1.9	10:15	-0.6		
3 SUN	●	4:33	18.6	4:24	19.5	10:21	2.7	10:47	-0.1		
4 Mon	●	5:09	17.8	4:53	18.8	10:53	3.6	11:21	0.6		
5 Tues	●	5:47	16.6	5:25	17.8	11:26	4.7	11:57	1.5		
6 Wed	●	6:27	15.3	6:00	16.7	.....	....	12:06	5.9
7 Thur	●	7:22	14.1	6:48	15.5	0:43	2.5	12:51	7.0		
8 Fri	●	8:31	13.4	7:57	14.5	1:38	3.5	1:59	7.8		
9 Sat	●	9:53	13.5	9:29	14.2	2:55	4.0	3:30	7.7		
10 SUN	●	11:03	14.6	10:58	15.0	4:18	3.7	4:57	6.3		
11 Mon	●	11:59	16.3	.....	....	5:27	2.7	6:01	4.0
12 Tues	●	0:07	16.6	12:44	18.3	6:22	1.4	6:54	1.3		
13 Wed	●	1:07	18.4	1:26	20.2	7:10	0.3	7:40	-1.2		
14 Thur	●	1:55	20.0	2:06	21.9	7:55	-0.6	8:24	-3.2		
15 Fri	●	2:44	21.1	2:46	23.0	8:39	-0.9	9:09	-4.6		
16 Sat	●	3:31	21.6	3:28	23.3	9:21	-0.8	9:53	-5.0		
17 SUN	●	4:17	21.3	4:09	22.9	10:05	-0.1	10:37	-4.6		
18 Mon	●	5:05	20.4	4:51	21.8	10:49	1.1	11:25	-3.3		
19 Tues	●	5:55	19.0	5:38	20.1	11:38	2.6	.....	....
20 Wed	●	6:50	17.3	6:29	18.0	0:14	-1.5	12:29	4.2		
21 Thur	●	7:53	15.9	7:28	16.0	1:09	0.5	1:33	5.7		
22 Fri	●	9:07	15.0	8:47	14.4	2:15	2.4	2:50	6.6		
23 Sat	●	10:26	14.9	10:16	13.8	3:33	3.6	4:21	6.4		
24 SUN	●	11:32	15.4	11:37	14.2	4:52	4.0	5:36	5.3		
25 Mon	●	12:20	16.2	5:54	3.9	6:30	3.9		
26 Tues	●	0:36	15.1	12:57	17.1	6:38	3.7	7:10	2.5		
27 Wed	●	1:21	16.0	1:31	17.9	7:15	3.4	7:45	1.2		
28 Thur	●	1:58	17.0	1:55	18.7	7:47	3.1	8:17	0.1		
29 Fri	●	2:33	17.8	2:24	19.4	8:19	3.0	8:49	-0.7		
30 Sat	●	3:08	18.3	2:53	19.7	8:51	3.0	9:21	-1.2		

DAYLIGHT TIME ENDS 2 A.M.

31 SUN	●	2:41	18.4	2:25	19.8	8:23	3.2	8:53	-1.3
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A.M. TIDES • BIGGER THE DOT - BETTER THE FISHING P.M. TIDES
LITE TYPE DAYLIGHT TIME THRU OCTOBER 30 BOLD TYPE

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