

KODIAK MANAGEMENT AREA COMMERCIAL SALMON
ANNUAL MANAGEMENT REPORT, 1997



Regional Information Report No. 4K00-27

Alaska Department of Fish and Game
Division of Commercial Fisheries
211 Mission Road
Kodiak, Alaska 99615

March 2000

Debbie Hart
Comm Fish, Juneau

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By

Kevin Brennan

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INTRODUCTION

Since Alaska was granted statehood the Alaska Department of Fish and Game (ADF&G) has been charged with the management of the salmon resources of the state. The mission of the Division of Commercial Fisheries (DCF) is to manage, protect, rehabilitate, enhance, and develop fisheries and aquatic plant resources in the interest of the economy and general well-being of the state, consistent with the sustained yield principle and subject to allocations established through public regulatory processes. The DCF is responsible for management of the state's subsistence, commercial, and personal use fisheries; the rehabilitation and enhancement of existing fishery resources; and the development of new fisheries.

Annual management reports of Kodiak Management Area (KMA) commercial salmon fisheries have been compiled since statehood. This report describes the Kodiak Management Area, provides an overview of the salmon resources, gives a brief history of the commercial fishery, and explains the current Kodiak Management Area commercial salmon fisheries and the various harvest strategies which are in effect throughout the commercial salmon fishing season. In addition, this report will review recent and historical harvests and effort levels.

Note: Due to the Exxon Valdez oil spill, most of the KMA remained closed to commercial salmon fishing for the entire 1989 season. Tables and graphs in this report may not include 1989 data. Where average harvest information is used, 1989 may not be included.

KODIAK MANAGEMENT AREA DESCRIPTION AND SALMON RESOURCES

The Kodiak Management Area (KMA) comprises waters in 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 (Figure 1, Appendix A.1.-A.6.).

The marine waters around Kodiak are among the most productive in the North Pacific. Offshore upwelling combines with abundant freshwater runoff to make nearshore waters rich in nutrients. There are over one hundred species of marine fish native to the KMA, and five species of salmon are native to streams of the Kodiak Archipelago and the Alaska Peninsula: chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, pink *O. gorbuscha*, chum *O. keta*, and coho *O. kisutch* salmon.

There are approximately 800 anadromous streams within the KMA in which salmon migration or spawning has been documented (ADF&G 1993). Of these, 440 anadromous streams have significant production (Table 1). Four streams support viable chinook salmon stocks, 39 streams support sockeye salmon stocks of varying size, 174 have coho salmon stocks, approximately 150 have chum salmon stocks, 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.

The Alaska Department of Fish and Game salmon management and research staff have established escapement goals for each salmon species (Table 2), which are the estimated annual number of

spawning salmon required inriver to sustain the population and/or provide surplus fish for harvest. Escapement goals are expressed as a range. The KMA commercial salmon fisheries are managed to achieve escapement levels that are within the established range. The "targeted" escapement goals for KMA salmon are approximately 15,000 chinook, 2,100,000 sockeye, 3,000,000 to 4,500,000 pink¹, 1,020,000 chum, and 150,000 coho salmon (Table 3).

An estimated production potential for certain KMA salmon species can be calculated by multiplying the expected escapement (the targeted goal) by an estimated average return per spawner (RPS; this can be calculated from research on escapement and subsequent returns for specific salmon stocks). The annual potential harvest can then be calculated by subtracting the specific targeted escapement goal from the production potential (Table 3). In recent years the actual RPS estimated for Kodiak's major sockeye salmon systems have approached 3.7 to 1 (Prokopowich 1995), and for Kodiak pink salmon the odd year RPS was estimated at approximately 3.0 to 1 (Swanton et al. 1993). Using these known RPS estimates, the KMA sockeye salmon annual potential harvest is estimated to be approximately 5,700,000 fish. Pink salmon potential harvest is estimated to be 6,000,000 (odd year) to 9,000,000 (even year). These values are averages around which natural survival and return will fluctuate. It is of interest to note that the actual pink salmon production in recent odd years has far exceeded this estimated potential. Record pink salmon returns have occurred in 1989, 1993, and 1995.

Two hatcheries located in the KMA continue to produce salmon to supplement natural salmon production (Figure 2). The Kodiak Regional Aquaculture Association (KRAA) operates the Kitoi Bay and Pillar Creek hatcheries. Kitoi Bay Hatchery, located on the east side of Afognak Island, produces primarily pink salmon, however sockeye, chum, and coho salmon are also cultured. Outstocking of coho and sockeye fry, presmolt, and smolt occurs, but the majority of the salmon are intended to return to the hatchery for common property harvest. Pillar Creek Hatchery, located north of the city of Kodiak at Monashka Bay, is utilized primarily as an incubation facility for sockeye salmon out-stocking projects.

COMMERCIAL SALMON FISHING

The salmon resources of the KMA have been exploited commercially for over 150 years (Roppel 1986). Commercial sockeye salmon harvest records date back to 1882 (Table 4). In 1974 a "limited entry system" was adopted by the State of Alaska that restricted the number of individuals allowed to participate in commercial salmon fisheries. There were 606 commercial salmon permits issued for the KMA in 1997: 384 purse seine (the second largest purse seine fleet in the state), 34 beach seine, and 188 set gillnet. Actual numbers of permits fished annually varies, possibly due to preseason perceptions of price and forecasted run strength (Table 5).

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 seven districts subdivided into

¹ Pink salmon production in individual systems tends to be large one year, then small the next. Hence the escapement goal is different between odd and even years, with odd numbered years having lower goals, and even years having higher goals.

52 sections (Appendices A.1-A.6). These sections are occasionally subdivided inseason to adjust fishing effort on unexpected salmon surpluses or deficits. Each section defines a traditional geographic harvest area, managed for specific stocks or traditional fishing patterns. Divisions of sections or groups of sections or districts that are opened or closed together are referred to as a management unit. The Alaska Board of Fisheries has also designated three Terminal Harvest Areas (THA) within the KMA for the harvest of enhanced salmon fisheries (supplemental production).

In the KMA there are restrictions on which gear types can operate in specific management units, based on historical gear use patterns, which are formalized into regulations (ADF&G 1996). The majority of the KMA is open to seine gear only. 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 are the only legal gear². Gillnet and seine gear are both allowed in the Central Section of the Northwest Kodiak District, making this the only section where all gear types may operate. Since 1974, the geographical areas currently open to specific gear types have, with few exceptions, remained unchanged.

Preseason salmon forecasts are developed jointly by management and research biologists. Pink salmon returns are predicted by broad geographic area, while individual forecasts are made for major sockeye salmon stocks (Geiger et al. 1997). Projected harvests are estimated by fishery and geographic area (Table 6). These include forecasts and harvest estimates for supplemental and enhanced salmon production from stocking projects conducted by ADF&G and KRAA (Table 7).

By regulation, the commercial salmon fishing season in the Kodiak Management Area may extend from June 5 through October 31 (ADF&G 1996). Inseason management activities focus on daily evaluations of actual run strength in comparison to preseason expectations (forecasts) by species. Commercial salmon fisheries may be allowed if salmon runs appear to be surplus to escapement needs.

The majority of sockeye and all chinook salmon escapement counts are obtained through the use of fish weirs (Brodie 1998). Weirs are used on up to 13 different spawning systems (Table 8; Figure 2). Escapement counts through fish weirs are hand tallied total counts, by species. Sonar, video, or timed periodic counts are not used. Escapement gates within the weir are closed when personnel are not present to count. Escapement counts are transmitted daily from fish counting weir stations to the Kodiak ADF&G office by single side band radio. The timely and accurate data from weir camps allow for precise stock specific management. The remainder of KMA sockeye systems are monitored by aerial observation using small fixed-wing aircraft. While some pink, chum, and coho salmon escapement counts are obtained from weirs, most estimates of salmon buildup and escapement counts for these species are collected from fixed-wing aircraft surveys of bays and streams, plus a few on site stream surveys. Aerial and foot survey counts are considered an index of the actual escapement, for use inseason to aid fishery management. A "peak indexed escapement"

² This management unit was designated set gillnet only prior to Alaska being granted statehood. In 1970 this rule was amended such that the Moser-Olga Bay Section remains gillnet only prior to September 5. Seine gear is then 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 overescapement, "mop up" fisheries can occur in these sections. Prior to September 5 only set gillnet gear would be allowed in these sections.

estimate is calculated postseason for all systems surveyed and, together with weir escapement data, an area wide escapement estimate is made (Table 9)³.

The ADF&G 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, as well as obtaining feedback concerning inseason management activities. As the season progresses copies of fish tickets 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.

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 data on test fishery catches vs. actual salmon runs, to help predict the number of salmon passing through Olga Narrows.

Commercial Salmon Harvest Strategy

Salmon run timing by species within the KMA follows a general chronology (Figure 3). Generally, there are "early run" sockeye salmon present throughout June to about mid July, and "late run" sockeye salmon are available from mid July through September. Pink and chum salmon are available from July through August. Coho salmon are generally present from August through October. Commercial salmon fisheries are structured around the seasonal abundance of salmon.

Inseason management actions follow 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. Sockeye salmon are the primary species on which fisheries are targeted from June through early July, though some early run chum stocks may influence management in small localized areas; pink salmon are the primary species managed for from early July through mid August, with some areas managed specifically for local sockeye or chum salmon stocks; late run sockeye, coho, and chum salmon are the primary management species from mid August through early September; and coho salmon are the primary species managed for 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

³ Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon. Expansion of aerial or foot survey counts to estimate total run 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 weirs plus peak index counts, and this document follows that pattern.

when structuring commercial salmon fisheries. These plans are part of the Kodiak Area Commercial Salmon Fishery Regulations (ADF&G 1996). Nine regulatory MPs were in effect for the KMA in 1997 (Table 10). These management plans reflect traditional fishing opportunities and the subsequent harvest allocations that have resulted between and within gear types participating in specific fisheries.

Five 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 KMA fishers: the Alitak Bay District Salmon MP, the Westside Kodiak MP, the Eastside Afognak MP, the Eastside Kodiak Salmon MP, and the North Afognak / Shuyak Island Salmon MP. Two plans affect Kodiak purse seine fishers opportunity to target on salmon migrating through the KMA to spawning systems in the Chignik and Cook Inlet Management Areas: the Cape Igvak Salmon 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 Coho Salmon MP, and the Spiridon Lake Sockeye Salmon MP. Normally, the intent of these plans is that salmon should be harvested as much as possible in traditional fisheries located in management units covered by the plans.

1997 SEASON SUMMARY

Salmon Forecasts

The 1997 forecasted commercial harvest of sockeye salmon was approximately 3.5 million fish (Table 6). This projection included formal forecasts for the major sockeye systems of Karluk, Upper Station, Ayakulik, and Frazer, plus estimated harvests from minor sockeye systems, supplemental production (from enhancement projects), the Cape Igvak Section harvest of sockeye considered by regulations to be Chignik bound, and "other" miscellaneous systems. For pink salmon, the total 1997 KMA harvest forecast was 21.6 million fish. This included a forecasted harvest of 14.8 million natural or wild stock pink salmon, plus 6.8 million hatchery produced pink salmon. Preseason forecasts also predicted a harvest of 700,000 chum, 320,000 coho, and 20,000 chinook salmon. These estimates include supplemental production of chum and coho salmon from enhancement projects (Table 7).

Harvest Strategy

The 1997 Kodiak Area Commercial Salmon Fishery Harvest Strategy (Prokopowich et al. 1997) was released in May 1997. This document contained a synopsis of the expected chronology of the 1997 commercial salmon fisheries by species, projections on expected escapements and the expected harvest, an overview of selected regulations in effect, and a description of the regulatory plans which guide management throughout the season.

The initial opening date of the salmon fishery, targeting early run sockeye salmon, was listed as June 9. The areas to be opened included the Alitak Bay and Northwest Kodiak Districts, with the results of this 33 hour commercial test fishery (no extensions) to be used as a management tool to evaluate the actual run strength of the Karluk, Ayakulik, Frazer, and Upper Station early sockeye

stocks. June 9 was also listed as the initial opening date for enhanced early run sockeye stocks (supplemental production) in the Foul Bay and Waterfall Bay Terminal Harvest Areas (THA), and the Duck, Izhut, and Kitoi Bay Sections. Further, because of strong sockeye runs to the Afognak River in recent years, the harvest strategy stated that the Southeast Afognak Section might also open as early as June 9. The second fishing period was scheduled for June 14, with extensions possible if sockeye salmon escapements were within or above desired levels. Additionally, it was noted that during the second period more areas generally open, if sockeye escapements to local minor systems were good. After June 15 additional fishing time was to be based solely on the strength of the sockeye runs, as determined by escapements. 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. The initial "general pink salmon opening" was set at 3 ½ days, with following fishing periods in July and August set at 4 ½ days per week, based on the predicted pink and chum salmon run strength.

General Harvest Information

The 1997 Kodiak commercial salmon season began on June 9. Fisheries occurred over a 116 day period, with the last reported landing on October 2 (Appendix B.1.). In 1997, 35 Emergency Orders were released inseason, describing hundreds of individual management actions (Appendix B.2.).

Throughout the 1997 season, a total of 13 different shorebased buyers and/or processors, representing 11 companies were involved in the fishery (Table 11). Of 606 eligible limited entry permit holders, only 440 (72.6%) actually participated in 1997, making 12,833 deliveries (Table 12). By gear type, a total of 261 purse seine⁴, 5 beach seine, and 174 set gillnet permit holders fished. The preseason forecasted harvest of 26.13 million salmon was not achieved, with the actual harvest being much lower at 14.46 million salmon. Purse seine fishers harvested almost 82%, set gillnet fishers caught approximately 18%, and beach seine fishers took less than ½% of the salmon harvested. Also, ADF&G operated a test fishery in the Alitak Bay District, using a small gillnet. Twenty eight landings were made, harvesting approximately 2,500 salmon.

The 1997 KMA commercial salmon fishery was unusual, in that price disputes between fishers and processors led to two "strikes" or "hold-outs". These hold-outs were in themselves unusual, because fishers were not striking for a specific, higher price, but were intent on having the final prices paid to fishers for their product somehow tied to the final sales price of the product in the market. In a sense most KMA fishers desired to share in the profits and the risks of the wholesale market. The first hold-out occurred from June 8 to 23, with fishers attempting to negotiate sockeye salmon prices. Seiners held out from the beginning of the season, negotiating not only with processors for price, but also with KMA gillnet fishers and other fisher groups throughout the state to join the holdout. Most KMA gillnet fishers did join early in June, shortly after the beginning of the second sockeye salmon opening. A limited number of fishers were allowed to harvest sockeye from enhancement areas and from streams where escapement was expected to exceed the desired goals, with the product delivered to the initial processing company to settle with fishers. Proceeds from these fisheries were pooled, with some money spent on the negotiations and the remainder

⁴ Purse seine permit holder activity in the 1996 and 1997 KMA salmon fisheries was the lowest since limited entry has been in effect (Table 5).

divided among eligible permit holders. An agreeable settlement was reached with all processors and the full fleet returned to operation for the remainder of the early-run sockeye salmon fisheries. KMA fishers decided to hold out once again from July 26 to August 7, while negotiating for an agreement tying the final pink salmon price to the wholesale price of the product on the open market.

The 1997 salmon season was also unusual in other aspects. The weather was unusually warm and sunny and, from mid to late summer, stream water levels were very low. This delayed the migration timing of many stocks. There were many specific sockeye and pink salmon stocks that not only were late, but also were weaker than expected, though some runs were much stronger than projected.

As mentioned previously, there are several regulatory management plans and harvest strategies that influence the management of the KMA salmon fisheries. Specifics on each of these management plans and harvest statistics for the 1997 KMA salmon fisheries that occurred in accordance with them are described in detail in the following Appendices:

- Appendix C - The Cape Igvak Salmon Management Plan (5AAC 18.360)
- Appendix D - The Alitak Bay District Salmon Management Plan (5AAC 18.361)
- Appendix E - The Westside Kodiak Management Plan (5AAC 18.362)
- Appendix F - The North Shelikof Strait Sockeye Salmon Management Plan (5AAC 18.363)
- Appendix G - The Eastside Afognak Management Plan (5AAC 18.365)
- Appendix H - The Spiridon Lake Sockeye Salmon Management Plan (5AAC 18.366)
- Appendix I - The Eastside Kodiak Salmon Management Plan (5AAC 18.367)
- Appendix J - The North Afognak/Shuyak Island Salmon Management Plan (5AAC 18.368)

Appendix K contains a detailed table of the 1997 commercial salmon harvest in the KMA, broken down by catch by week for each management unit, all gear combined.

Salmon Harvest by Species

There are no directed commercial fisheries for chinook salmon in the KMA. Any commercial harvest of chinook salmon occurs incidentally in fisheries targeting sockeye and pink salmon. In 1997 approximately 18,700 chinook salmon were harvested in the KMA, with an individual average weight of 9.98 pounds (Table 12 and 13). The harvest was below the preseason expectation of 20,000 fish and below the previous 10-year average harvest (1986-1996)⁵ of 19,300 chinook salmon (Table 4).

The 1997 commercial harvest included 2,503,400 sockeye salmon, which had an individual average weight of 5.25 pounds (Table 12 and 13). This is the lowest sockeye harvest since 1987 (Table 4). The actual harvest was below the preseason forecast of 3,496,500 sockeye salmon, and below the previous 10-year average harvest (1986-1996)⁷ of 3,951,100 sockeye (Tables 4 and 6). Sockeye harvests attributed to the early Karluk fishery and to enhanced production returning to the Kitoi Bay

⁵ 1989 not included in averages, due to closure of the majority of the KMA in response to the Exxon Valdez oil spill.

Hatchery and Spiridon Lake were greater than expected, with all other sockeye fisheries producing less than expected.

The 1997 commercial pink salmon harvest of 11,035,000 fish, which had an individual average weight of 3.38 pounds (Table 12 and 13), was well below the preseason forecast of 21,595,000 (Table 6). The 1997 pink harvest was approximately 25% of the 1995 record harvest of 42,832,400 pink salmon (Table 4). Wild stock pink salmon production was excellent in Westside Kodiak and Mainland sections, but well below projections in the Afognak, Alitak, and Eastside/Northend Kodiak areas (Table 6). The Kitoi Bay Hatchery return was substantially less than forecast, producing a harvest of only 1,211,000 pink salmon, which was well below the forecasted harvest of 6,815,000.

The 1997 chum salmon harvest was 520,300 fish, averaging 7.99 pounds each (Table 12 and 13), and was below the preseason harvest expectation of 700,000 fish (Table 6). This chum harvest was the lowest since 1985, and was well below the previous 10-year average harvest (1986-1996)⁶ of 892,300 chum salmon (Table 4).

A total of 381,000 coho salmon were harvested in 1997, with an individual average weight of 7.97 pounds (Table 12 and 13). This harvest was above the preseason harvest expectation of 320,000 coho salmon (Table 6), and was above the previous 10-year average harvest (1986-1996)⁶ of 268,300 coho salmon (Table 4).

Exvessel Value

The exvessel value of the KMA commercial salmon fishery represents the average price paid to permit holders and generally does not include tender fees. Since the early 1970s the overall exvessel value of the KMA commercial salmon fishery has ranged from a low of \$2,094,000 (1973) to a high of \$103,816,900 (1988) for all permit holders combined (Table 14). The average exvessel value for the previous ten years (1986-1996)⁶ is \$45,098,600. The estimated exvessel value of the 1997 salmon harvest is \$21,017,600 (Table 12 and 14). Purse seine harvest accounted for approximately 68% of the total exvessel value, averaging \$54,900 for each permit fished. Beach seine harvest accounted for less than 1% of the value, averaging \$8,400 per permit fished. Set gillnet harvest accounted for approximately 31% of the total value, averaging \$38,100 per permit (Table 12 and 14). By species, in 1997 the chinook salmon harvest was worth \$119,800 (< 1%), the sockeye harvest was worth \$12,596,000 (60%), pink salmon \$5,809,200 (27%), chum salmon \$781,800 (4%), and coho salmon was worth \$1,710,900 (8%).

Escapement

In 1997, 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 smaller systems of Afognak Lake (at Litnik), Buskin Lake, Saltery Lake, Laura Lake (at Pauls Bay), Malina Lake, Little Kitoi Lake, and at Bear Creek on Shuyak Island (Table 8, Figure 2). In 1997, 8 observers

⁶ 1989 not included in averages, due to closure of the majority of the KMA in response to the Exxon Valdez oil spill.

flew 35 aerial surveys of KMA streams, and 11 observers completed 34 foot surveys of streams. A total of 409 escapement observations were made (Appendix L.1 - L.8.).

The KMA chinook salmon indexed escapement totaled 28,534 fish in 1997 (Table 2). The overall chinook salmon escapement goal was achieved, as were the individual goals for the Ayakulik, Karluk, and Dog Salmon Rivers. The Ayakulik River escapement was 14,357 chinook salmon, exceeding the escapement goal range of 6,500 to 10,000. The Karluk River escapement was 13,443 chinook salmon, exceeding the escapement goal range of 4,500 to 8,000. The Dog Salmon River escapement was 662 chinook salmon, exceeding the established escapement range of 110 to 330. Also, 70 chinook were counted in the Buskin River (these were returns to a stocking program begun by Sport Fish Division as a put-and-take sport fishery; for more information see Schwarz, 1997), and two chinook were counted in other systems (one each into the Saltery and Litnik systems).

Sockeye salmon escapements for major and selected minor systems were monitored through the use of fish counting weirs (Table 8). Fish counted into weired systems accounted for about 92% of all documented sockeye escapement in 1997. A total of 1,652,035 sockeye salmon were counted through KMA weirs. An additional 137,714 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 1997 total indexed sockeye salmon escapement to 1,789,749 fish (Table 2). The escapement goal range for all systems is 1,351,500 to 2,048,000 sockeye salmon.

The 1997 pink salmon escapement was, in general, very good though some areas had lower than desired escapements. The majority of pink salmon escapements are monitored by aerial survey, with just under 12% of the 1997 pink salmon escapement occurring in weired systems. In some cases poor escapements documented in specific systems were the result of the lack of surveys or poor survey conditions rather than weak returns. Pink salmon escapements overall totaled 3,253,029, exceeding the odd year upper escapement goal (range 1,010,000 to 3,030,000 pink salmon; Table 2). Pink salmon escapements in the Afognak District exceeded the desired range. Northwest Kodiak District escapements were near the upper goal, with strong returns to Zachar and Uyak. Southwest Kodiak District pink escapements exceeded the upper goal, mainly due to a larger than expected Karluk pink salmon return. Alitak had an overall escapement above the mid point of the district-wide goal. Only a poor pink salmon escapement was documented in the Deadman system, however the only good survey occurred at the beginning of August and the pink salmon return was later than normal. Eastside streams had generally good escapement, coming in above the upper escapement goal. For streams in the Northeast Kodiak District pink escapement was near the upper end of the established range, with the relatively weak Buskin return offset by a very good escapement in the American River. Mainland District escapements were well above the upper end of the desired range, despite some weak returns in the northern portion of the district.

The chum salmon run also varied considerably depending on geographic location. Again, the majority of escapement counts came from aerial survey, with less than 3% of the 1997 chum escapement entering into weired systems. Aerial counts of chum salmon are perhaps subject to greater error than pink salmon counts in the KMA. Chum salmon migrate into small sloughs and side creeks as well as into major river systems, and also may occupy more turbid or muddier systems, making observations difficult. Further, several major KMA chum salmon systems along Kodiak's westside or along the Alaska Peninsula are very remote, limiting aerial observations. In 1997 very warm, low water, conditions may also have delayed escapements, forcing fish to hold in deeper water off stream mouths. Aerial survey counts of chum salmon for the KMA are considered

minimum estimates of actual escapement. Area wide, the indexed chum salmon escapement of 459,293 fish was near the lower end of the escapement goal range of 510,000 to 1,530,000 fish (Table 2). Chum salmon escapements to Northwest Kodiak District streams appeared good, though turbid water limited observation in the glacially fed Spiridon system. In the Southwest Kodiak District the Sturgeon River chum salmon escapement appeared weak. Alitak Bay District chum escapements appeared fair, coming in near the mid point of the escapement goal range, however the Deadman River escapements appeared weak. Chum escapements were relatively poor for streams located on the east side of Kodiak Island, though surveys were limited (only 12 of 20 known chum producing streams were surveyed); streams in the northeast portion appeared to receive much better chum escapements than those to the south. Chum escapement along the Mainland District were also spotty, with several streams from the mid to north Mainland area appearing strong (Village Creek, Chiniak Lagoon, Dakavak, and Alogogshak), while others appeared very weak (Big River, Serpent Creek, and Kukak). Streams of the southern Mainland area appeared to have had good to excellent chum salmon escapements.

Estimating coho salmon escapements to KMA streams has many of the same limitations listed above for chum salmon escapement surveys. In addition, coho salmon often do not migrate into streams to spawn until late in the fall when rains raise water levels (as well as clouding stream water clarity). It is recognized that coho escapements continue until late in the year (often into November), and late season escapement surveys are always limited by budget constraints. As a result, escapement goals developed for coho salmon systems are considered interim goals; that is, the established goals relate to the desired escapement up to early to mid September. Achievement of these escapement goals is indicative of a good coho run, rather than estimating the total escapement. Many of the major and minor coho salmon systems are weired, with fish counted into weired systems accounting for 44.9% of the documented coho escapement (Table 8). Overall, coho salmon escapements appeared very strong, with the escapement estimation total of 234,839 exceeding established escapement goals (Table 2). The desired range was met or exceeded in streams within all districts, except in the Eastside Kodiak District. The low Eastside Kodiak District coho escapement estimate was probably due to a lack of surveys rather than weak coho salmon runs.

OTHER KODIAK MANAGEMENT AREA SALMON HARVESTS

Subsistence Salmon Fishery

Subsistence is the priority use of the salmon resources of the state of Alaska. Subsistence salmon permits, available only to State residents, are issued annually to obtain harvest data. Since 1989 Kodiak ADF&G staff has mailed out permits, regulations, and a map showing closed water areas to eligible residents, and additional permits are issued to Alaska residents at the Kodiak ADF&G office. Subsistence fishers 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. Only the freshwater systems of Afognak Island (which are relatively small, easily accessible and at risk of overexploitation) and some areas near heavily exploited salmon systems are closed to subsistence fishing for salmon (ADF&G 1997).

Reported subsistence salmon harvests averaged 27,300 fish annually for the 10-year period 1987-1996⁷ (Table 15). Sockeye salmon have accounted for the majority of the harvest (67%), followed by coho (24%), pink (6%), chum (2%), and chinook salmon (1%). In 1997 the reported subsistence harvest of 41,300 salmon was the highest on record. Subsistence fishers reported harvesting approximately 33,100 sockeye, 6,100 coho, 1,400 pink, 200 chum and 400 chinook salmon. Sockeye and chinook salmon harvests were above the previous 10-year average, while the coho, pink, and chum salmon harvests were slightly below that average. The reported sockeye harvest is the highest on record, almost 15,000 fish higher than the 1987-1996 average sockeye harvest (18,200). A significant increase in effort and catch has occurred at Afognak Bay (Litnik) targeting the large returns to Afognak Lake, and in Kizhuyak Bay targeting the enhancement project sockeye salmon returning to Crescent Lake. The most utilized subsistence fishery areas include the north end of Kodiak Island, at the Buskin and Pasagshak Rivers, and the southeast side of Afognak Island at Afognak Bay (Figure 2).

Salmon Sport Fishery

Since the early 1980s recreational and commercial sport fishing activities have increased, particularly in remote areas of the KMA. Commercial sport activity includes lodge operations, charter vessels, guiding, and directed air charter flights. Although sport caught salmon may not be sold, the lodge, guiding, and charter activities may be considered commercial uses since the owner is compensated monetarily for directing and providing fishing opportunities. Many charter boat operations are based out of the city of Kodiak, and the number of charter boat operations is increasing. 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 Strait, Seal Bay, Port Williams, Zachar Bay, Uyak Bay, Ugak Bay, Uganik Bay, and Kukak Bay. Floating cabins are located in Karluk Lagoon and Paramanof Bay. Air charter operations from Kodiak and Homer bring sport fishers to KMA streams, as do aircraft from sport fishing lodges in Bristol Bay, the Alaska Peninsula, and the Kenai Peninsula. Fly in sport fishing areas include virtually all KMA chinook and sockeye salmon systems, and most major coho salmon systems.

ADF&G's Sport Fish Division manages sport fishing activities. The KMA sport fishery salmon harvest is estimated by an annual Sport Fish Division statewide mailout survey. The sport fish harvest statistics are compiled by sport fish regulatory area, which do not correspond to commercial fishery area boundaries. Kodiak Archipelago sport fishery statistics are compiled, but the fisheries that occur in the Mainland District are combined with north and south Alaska Peninsula and Aleutian Island area statistics. Only Kodiak Archipelago sport fish statistics are given in this report.

Based on recent five year period totals, harvests of chinook, sockeye, and coho salmon have increased, while harvests of pink and chum salmon have decreased (Table 16). The estimated Kodiak Archipelago sport harvest⁸ was 5,200 chinook, 8,300 sockeye, 23,800 coho, 5,900 pink, and 200 chum salmon. Sport fish effort, as measured by angler days, has steadily increased in the Kodiak regulatory area (Howe et al. 1998). The most popular sport fishery, based on angler effort,

⁷ Reported harvests are from individuals returning permits to ADF&G. This provides an estimate of the subsistence catch, but may not represent the total KMA subsistence salmon harvest.

⁸ This represents estimates of fish landed and kept, and does not include estimates of catch and release.

is the fresh and marine water fishery adjacent to the Kodiak road system. An increase in effort and harvest of chinook salmon has occurred at both the Karluk and Ayakulik Rivers, and since 1992 a chinook troll sport fishery has developed in Chiniak Bay (Schwarz 1997).

LITERATURE CITED

- ADF&G (Alaska Department of Fish and Game). 1993. An atlas to the catalog of waters important for spawning, rearing, or migration of anadromous fishes; Southwestern Region, Resource Management Region III. Alaska Department of Fish and Game, Division of Habitat, Anchorage. Revised Feb. 11, 1993.
- ADF&G (Alaska Department of Fish and Game). 1996. Regulations of the Alaska Board of Fisheries for Commercial Fishing in Alaska; 1996-1998 Cook Inlet, Kodiak, and Chignik Areas. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Juneau.
- ADF&G (Alaska Department of Fish and Game). 1997. Regulations of the Alaska Board of Fisheries for Statewide Subsistence and Personal Use Finfish and Shellfish Fishing in Alaska; 1997-1998. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Juneau.
- Barrett, B.M. 1989. North Shelikof Strait 1988 sockeye catch distribution, timing, and stock composition. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K88-6, Kodiak.
- Barrett, B.M., C.O. Swanton, and P.A. Roche. 1990. An estimate of the 1989 Kodiak Management Area salmon catch, escapement, and run numbers had there been a normal fishery without the Exxon Valdez oil spill. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K90-35, Kodiak.
- Brodie, J.R. 1998. Kodiak Management Area salmon escapement cumulative counts for fishweirs, 1988-1997. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K98-43, Kodiak.
- Geiger, H.J., B. Frenette, and D. Hart. 1997. Run forecast and harvest projections for 1997 Alaska salmon fisheries and review of the 1996 season. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 5J97-10, Juneau.
- Howe, A.L., G. Fidler, C. Olnes, A.E. Bingham, and M.J. Mills. 1998. Harvest, catch, and participation in Alaska sport fisheries during 1997. Alaska Department of Fish and Game, Division of Sport Fish, Fishery Data Series No. 98-25, Anchorage.
- Malloy, L.M., and D.L. Prokopowich. 1992. Kodiak management area annual finfish management report, 1988. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K92-7, Kodiak.

LITERATURE CITED (continued)

- Nelson, P. A. 1999. An estimate of Spiridon Lake sockeye salmon commercially harvested within the Southwest Afognak Section and Northwest Kodiak District, 1997. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K99-25, Kodiak.
- Prokopowich, D.L., K. Brennan, and D.R. Gretsche. 1992. 1992 harvest strategy, Kodiak area commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K92-24, Kodiak.
- Prokopowich, D.L. 1995. An overview of the Kodiak Management Area commercial salmon fisheries with an emphasis on management activities, harvest strategies, historical harvests, and effort distribution during July. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K95-43, Kodiak.
- Prokopowich, D.L., K. Brennan, and D.R. Gretsche. 1997. Kodiak area commercial salmon fishery harvest strategy, 1997. Alaska Department of Fish and Game, Commercial Fisheries Management and Development Division, Regional Information Report 4K97-34, Kodiak.
- Roppel, P. 1986. Salmon from Kodiak: a history of the salmon fishery of Kodiak Island, Alaska. Alaska Historic Commission, Studies in History No. 216. Anchorage.
- Schwarz, L.J. 1997. Area Management Report for the recreational fisheries of the Kodiak and Alaska Peninsula/Aleutian Islands Regulatory Areas, 1996. Alaska Department of Fish and Game, Division of Sport Fish, Fishery Management Report No. 97-2, Anchorage.
- Simon, R.J., J. Lechner, M.F. Eaton, and P.B. Jackson. 1969. Kodiak Management Area Annual Report, 1969. State of Alaska, Division of Commercial Fisheries, Region IV Report (unpublished), Kodiak.
- Swanton, C.O., T.J. Dalton, B.M. Barrett, D. Pengilly, K.R. Brennan, and P.A. Nelson. 1993. Effects of pink salmon *Oncorhynchus gorbuscha* escapement level on egg retention, preemergent fry, and adult returns to the Kodiak and Chignik Management Areas caused by the *Exxon Valdez* oil spill. Alaska Department of Fish and Game, Division of Commercial Fisheries Management and Development, Fish/Shellfish Study Number 7B and 8B Final Report, Kodiak.

Table 1. Estimated number of anadromous streams with significant salmon production by district, with species distribution, in the Kodiak Management Area, 1997.

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 (ADF&G 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 1997 Kodiak Area salmon statistical map, and have documentable use each year.

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

Table 2. Salmon escapement goals vs. estimated escapement, by species, by district, in the Kodiak Management Area, 1997.

DISTRICT	SOCKEYE ESCAPEMENT		PINK ESCAPEMENT		CHUM ESCAPEMENT		COHO ESCAPEMENT		CHINOOK ESCAPEMENT	
	GOAL	1997 ESTIMATE	ODD YEAR GOAL	1997 ESTIMATE	GOAL	1997 ESTIMATE	GOAL	1997 ESTIMATE	GOAL	1997 ESTIMATE
	<u>Lower</u> <u>Upper</u>		<u>Lower</u> <u>Upper</u>		<u>Lower</u> <u>Upper</u>		<u>Lower</u> <u>Upper</u>		<u>Lower</u> <u>Upper</u>	
AFOGNAK	88,000	193,037	83,000	344,944		736	13,500	62,646		1
	164,000		249,000				23,600			
NORTHWEST	56,000	56,250	220,000	626,370	72,000	118,160	9,000	32,200		0
	90,000		660,000		216,000		14,000			
SOUTHWEST	750,500	872,973	30,000	128,475	50,000	21,828	33,000	61,398	11,000	27,800
	1,101,000		90,000		150,000		52,000		18,000	
ALITAK	386,000	572,170	212,000	505,001	38,000	68,857	10,500	23,192	110	662
	550,000		636,000		114,000		20,000		330	
EASTSIDE	29,500	47,216	140,000	492,711	88,000	39,904	10,000	7,878		1
	64,000		420,000		264,000		15,000			
NORTHEAST	8,000	9,853	110,000	316,178	20,000	19,308	10,475	19,525		70
	13,000		330,000		60,000		16,555			
MAINLAND	33,500	38,250	215,000	839,350	242,000	190,500	4,000	28,000		0
	66,000		645,000		726,000		9,000			
TOTAL	1,351,500	1,789,749	1,010,000	3,253,029	510,000	459,293	90,475	234,839	11,110	28,534
	2,048,000		3,030,000		1,530,000		150,155		18,330	

Table 3. Potential vs. actual salmon production (wild stock) in the Kodiak Management Area, 1997.

SPECIES	PRODUCTION POTENTIAL			HARVEST		
	LONG TERM AVERAGE			POTENTIAL	ACTUAL	
	Targeted Escapement Goal ^a	Return Per Spawner ^b	Potential Total Return	Long Term Average (Total Return minus Targeted Escapement)	48 Year Average (1948-1996) ^c	10 Year Average (1986-1996) ^c
CHINOOK	15,000	2.5	37,500	22,500	5,000	19,500
SOCKEYE	2,100,000	3.7	7,770,000	5,670,000	1,309,500	3,951,000
COHO	150,000	2.5	375,000	225,000	105,500	268,000
PINK						
<i>Odd Year</i>	3,000,000	3.0	9,000,000	6,000,000	8,732,500	24,642,500
<i>Even Year</i>	4,500,000	3.0	13,500,000	9,000,000	8,427,500	7,860,000
CHUM	1,020,000	2.8	2,856,000	1,836,000	777,500	892,500
TOTAL						
<i>Odd Year</i>	6,285,000	-	20,038,500	13,753,500	10,930,500	29,773,500
<i>Even Year</i>	7,785,000	-	24,538,500	16,753,500	10,625,000	12,991,000

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

^b Return per spawner (RPS) will vary each year. These values are averages around which natural survival and return will fluctuate. RPS for sockeye from Prokopowich (1995), for pink salmon from Swanton et al. (1993), and all others from Barrett (Personal Communication, 1993).

^c 1989 harvest data not included in averages. Fisheries were severely restricted in 1989 due to the *M/V Exxon Valdez* oil spill.

Table 4. Historic salmon catch, by species, in the Kodiak Management Area, 1882-1997.

Year ^a	Chinook	Sockeye	Coho	Pink	Chum	TOTAL
1880						
1881						
1882		58,800				58,800
1883		188,706				188,706
1884		282,184				282,184
1885		468,580				468,580
1886		646,100				646,100
1887		1,004,500				1,004,500
1888		2,781,100				2,781,100
1889		3,754,735				3,754,735
1890		3,592,707				3,592,707
1891		3,846,388				3,846,388
1892		3,126,459				3,126,459
1893		3,244,609				3,244,609
1894		3,830,336				3,830,336
1895		2,246,966	8,321			2,255,287
1896		3,328,846				3,328,846
1897		2,785,515	1,500			2,787,015
1898		2,033,094	19,175			2,052,269
1899	1,104	1,934,771	32,475			1,968,350
1900	4,838	3,450,480	32,239			3,487,557
1901	3,838	4,826,159		2,015		4,832,012
1902	2,932	3,868,101	34,972			3,906,005
1903	1,187	1,826,163	119,541	10,000		1,956,891
1904	3,190	2,875,118	103,136	5,180		2,986,624
1905	2,496	2,142,367	86,913			2,231,776
1906	3,640	3,980,462	23,738			4,007,840
1907	4,015	4,232,454	38,059			4,274,528
1908	3,028	2,487,848	73,789	286,374		2,851,039
1909	3,907	1,915,230	51,500	153,595		2,124,232
1910	1,598	1,954,717	44,291	215,382		2,215,988
1911	689	2,685,949	21,870	229,551	6,492	2,944,551
1912	686	2,246,467	17,491	547,171	24,588	2,836,403
1913	1,082	1,663,163	27,634	590,039	3,822	2,285,740
1914	1,329	1,255,444	32,063	1,726,411	13,094	3,028,341
1915	939	1,664,426	51,819	252,073	20,331	1,989,588
1916	1,038	3,373,055	49,683	3,181,890	28,962	6,634,628
1917	1,457	3,645,914	30,485	225,335	15,961	3,919,152
1918	2,021	1,894,466	78,169	2,467,325	81,699	4,523,680
1919	1,831	1,619,101	104,233	282,715	60,102	2,067,982
1920	1,637	1,957,636	88,970	1,977,421	55,175	4,080,839
1921	660	2,857,922	45,764	67,688	24,779	2,996,813
1922	703	1,097,359	119,724	2,766,257	223,970	4,208,013
1923	1,915	1,090,117	77,554	928,510	38,653	2,136,749
1924	1,002	1,407,525	120,686	5,435,091	117,883	7,082,187
1925	1,911	1,693,057	92,960	2,673,675	212,492	4,674,095
1926	596	3,015,366	174,475	4,606,694	324,706	8,121,837
1927	4,358	1,155,202	151,548	5,297,305	417,956	7,026,369
1928	2,546	1,592,003	290,645	1,535,313	726,480	4,146,987
1929	3,200	712,126	144,226	6,108,402	1,057,662	8,025,616
1930	4,991	466,409	228,800	1,651,398	419,011	2,770,609

-Continued-

Table 4 (page 2 of 3)

Year ^a	Chinook	Sockeye	Coho	Pink	Chum	TOTAL
1931	1,541	1,183,074	170,075	6,839,906	183,737	8,378,333
1932	1,873	1,058,446	52,192	4,719,939	237,023	6,069,473
1933	1,140	1,428,373	91,428	6,573,660	536,935	8,631,536
1934	1,300	1,828,953	89,588	7,641,891	661,341	10,223,073
1935	1,393	1,613,519	76,849	10,780,612	381,753	12,854,126
1936	2,548	2,657,195	183,903	5,647,726	328,218	8,819,590
1937	1,257	1,881,304	164,902	16,787,150	346,238	19,180,851
1938	1,232	1,965,943	154,959	8,397,981	640,119	11,160,234
1939	2,272	1,786,445	112,171	11,741,218	641,693	14,283,799
1940	1,233	1,318,233	148,016	9,997,899	673,265	12,138,646
1941	2,571	1,730,201	199,515	7,601,531	444,521	9,978,339
1942	1,329	1,281,529	106,865	6,092,526	564,924	8,047,173
1943	1,133	1,990,557	59,661	12,479,608	454,205	14,985,164
1944	668	1,817,875	51,675	4,955,354	506,703	7,332,275
1945	2,021	2,041,090	60,122	9,044,544	559,332	11,707,109
1946	129	838,863	56,425	9,545,871	298,486	10,739,774
1947	99	993,394	76,230	8,856,666	294,518	10,220,907
1948	1,401	1,260,465	32,364	5,968,487	330,795	7,593,512
1949	851	892,336	53,737	4,927,779	699,548	6,574,251
1950	2,127	920,885	40,653	5,304,701	685,109	6,953,475
1951	2,402	467,875	48,792	2,100,377	483,057	3,102,503
1952	1,081	603,677	51,567	4,576,726	1,243,227	6,476,278
1953	2,991	317,150	41,681	5,174,645	547,574	6,084,041
1954	942	325,157	66,430	8,439,231	1,250,833	10,082,593
1955	2,428	164,482	34,582	10,794,164	482,425	11,478,081
1956	1,123	271,249	52,844	3,318,841	705,047	4,349,104
1957	1,030	234,253	34,995	4,716,482	1,208,472	6,195,232
1958	1,942	288,014	20,555	4,038,938	930,698	5,280,147
1959	1,837	330,087	14,512	1,967,058	733,784	3,047,278
1960	1,238	362,525	54,308	6,737,817	1,300,386	8,456,274
1961	864	407,979	28,579	3,926,023	518,935	4,882,380
1962	1,095	784,664	54,583	14,113,851	794,727	15,748,920
1963	286	407,040	57,011	5,480,158	305,061	6,249,556
1964	1,306	498,488	35,535	12,044,341	1,134,163	13,713,833
1965	786	346,237	26,672	2,886,831	431,340	3,691,866
1966	599	631,646	67,700	10,755,582	762,766	12,218,293
1967	1,753	308,756	10,354	187,813	226,681	735,357
1968	1,936	760,393	56,629	8,768,122	750,428	10,337,508
1969	2,469	591,481	48,759	12,500,823	534,933	13,678,465
1970	1,089	917,045	66,421	12,036,598	919,102	13,940,255
1971	920	478,479	22,844	4,332,994	1,541,444	6,376,681
1972	1,300	222,800	16,588	2,485,802	1,163,772	3,890,262
1973	800	167,341	3,573	518,692	317,921	1,008,327
1974	545	418,761	13,631	2,646,087	249,294	3,328,318
1975	101	136,418	23,659	2,942,801	84,431	3,187,410
1976	766	641,484	23,714	11,077,992	740,495	12,484,451
1977	585	623,468	27,920	6,252,405	1,072,313	7,976,691
1978	3,228	1,071,782	48,795	15,004,083	814,345	16,942,233
1979	1,905	631,735	140,629	11,287,592	358,400	12,420,261
1980	529	651,394	139,154	17,290,615	1,075,557	19,157,249

-Continued-

Table 4. (page 3 of 3)

Year ^a	Chinook	Sockeye	Coho	Pink	Chum	TOTAL
1981	1,418	1,288,980	121,544	10,336,829	1,345,328	13,094,099
1982	1,238	1,204,793	343,531	8,076,203	1,266,187	10,891,952
1983	3,839	1,231,989	157,612	4,603,371	1,085,165	7,081,976
1984	4,657	1,950,439	229,524	10,844,293	649,092	13,678,005
1985	4,970	1,843,185	284,166	7,334,815	430,757	9,897,893
1986	4,381	3,188,269	168,773	11,807,727	1,134,558	16,303,708
1987	4,612	1,792,819	192,540	5,076,002	681,982	7,747,955
1988	22,374	2,698,637	303,298	14,409,291	1,426,410	18,860,010
1989 ^b	4,851	2,628,565	141,433	22,648,511	835,734	26,259,094
1990	18,806	5,248,339	293,699	5,983,805	577,740	12,122,389
1991	22,233	5,704,041	324,860	16,642,804	1,029,070	23,723,008
1992	24,299	4,167,877	280,085	3,310,644	679,559	8,462,464
1993	42,199	4,377,688	313,387	34,019,420	588,331	39,341,025
1994	22,576	2,878,023	296,305	8,162,564	738,856	12,098,324
1995	18,704	4,485,321	307,729	42,832,437	1,522,705	49,166,896
1996	13,071	4,970,390	201,836	3,486,930	543,751	9,215,978
1997	18,728	2,505,785	381,008	11,035,128	520,329	14,460,978
AVERAGES^b						
All Years	3,739	1,772,985	101,327	6,668,409	584,229	9,130,690
1948-97	5,558	1,360,656	115,503	8,623,810	788,100	10,893,627
Odd Years, 1949-97				8,828,227		
Even Years, 1948-96				8,427,571		
1986-1996	19,326	3,951,140	268,251	14,495,903	892,296	19,626,916
Odd Years, 1987-1995				24,642,666		
Even Years, 1986-1996				7,860,160		

^a 1882-1947 data from processors case pack information, 1948-1997 data from ADF&G fish ticket summaries.

^b Averages do not include 1989. Fisheries were severely limited due to the *M/V Exxon Valdez* oil spill, and the 1989 catch data presented is the projected catch had there been no fishery restrictions (Barrett 1990).

Table 5. Summary of limited entry permit activity in the commercial salmon fishery, by gear type, in the Kodiak Management Area, 1975-1997.

Year	<u>Purse Seine</u> ^a		<u>Beach Seine</u> ^a		<u>Set Gillnet</u> ^a		<u>TOTAL</u> ^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
1994	387	285	34	5	190	169	611	459	75
1995	386	312	34	8	189	173	609	493	81
1996	384	261	34	6	189	172	607	439	72
1997	384	261	34	5	188	174	606	440	73
<u>AVERAGES</u> ^c									
All Years	390	319	33	19	190	167	613	505	82
1987-1997	387	310	34	12	189	176	610	499	83
1977-1986	385	331	34	26	187	166	607	523	84

^a Fishable permits are those available for use, from Commercial Fisheries Entry Commission records. Fished permits are those actually reporting landings, from ADF&G Fish Ticket summaries.

^b Commercial fisheries were severely restricted in 1989 due to the *M/V Exxon Valdez* oil spill.

^c 1989 data are not included in averages.

Table 6. Commercial salmon harvest projections and actual harvests for the Kodiak Management Area, 1997.

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL
1997 Projected Harvest	20,000	3,496,500	320,000	21,595,000	700,000	26,133,500
1997 Actual Harvest	19,000	2,506,000	381,000	11,035,000	520,000	14,461,000

FISHERY	1997 HARVEST ^a	
	Projection	Actual
Early Run Sockeye Salmon Fisheries (6/9-7/15)		
Afognak (Hatchery)	23,000	23,000
Cape Igvak ^b	112,500	0
Karluk ^c	289,000	595,000
Ayakulik ^d	321,000	287,000
Frazer ^e	620,000	170,000
Upper Station ^e	79,000	23,000
Minor Systems ^f	90,000	14,000
Minor Enhancement ^g	83,000	57,000
Other	70,000	93,000
SubTotal	1,687,500	1,262,000
Late Run Sockeye Salmon Fisheries (7/16-10/2)		
Afognak (Hatchery) ^h	21,000	27,000
Cape Igvak ^b	190,000	0
Karluk ^c	381,000	473,000
Ayakulik ^d	214,000	58,000
Frazer ^e	153,000	54,000
Upper Station ^e	636,000	441,000
Minor Systems ^f	20,000	10,000
Spiridon ⁱ	164,000	145,000
Other	30,000	36,000
SubTotal	1,809,000	1,244,000
TOTAL SOCKEYE	3,496,500	2,506,000
Pink Salmon Fisheries (7/6-9/5)		
Afognak (Hatchery) ^h	6,815,000	1,214,000
Afognak (Natural) ^j	1,834,000	233,000
Westside Kodiak ^k	4,300,000	6,572,000
Alitak ^l	3,376,000	955,000
Eastside/Northend Kodiak ^m	4,500,000	1,334,000
Mainland ⁿ	770,000	727,000
SubTotal	21,595,000	11,035,000

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Table 6. (page 2 of 2)

FISHERY	Projection	1997 HARVEST ^a
		Actual ^b
Chum Salmon Fisheries (6/6-9/5)		
Afognak (Hatchery) ^h	0	11,000
Afognak (Natural) ^j	50,000	9,000
Westside Kodiak ^k	370,000	215,000
Alitak ^l	70,000	86,000
Eastside/Northend Kodiak ^m	130,000	164,000
Mainland ⁿ	<u>80,000</u>	<u>35,000</u>
SubTotal	700,000	520,000
Coho Salmon Fisheries (8/1-10/1)		
Afognak (Hatchery) ^h	143,000	110,000
Afognak (Natural) ^j	25,000	42,000
Westside ^k	86,000	111,000
Alitak ^l	20,000	34,000
Eastside/Northend Kodiak ^m	36,000	75,000
Mainland ⁿ	<u>10,000</u>	<u>9,000</u>
SubTotal	320,000	381,000
GRAND TOTAL	26,133,500^o	14,461,000^p

^a Numbers of fish, rounded to the nearest 1000.

^b Includes the harvest from the Cape Igvak Section.

^c Includes the harvest from the Southwest Afognak Section, Northwest Kodiak District except for Spiridon and Settler Cove Terminal Harvest Areas, Inner and Outer Karluk Sections, and the Surgeon Section.

^d Includes the harvest from the Halibut Bay, and Outer and Inner Ayakulik Sections.

^e Includes the harvest from the Alitak Bay District, separated to stock of origin by scale pattern analysis.

^f Includes the harvest from minor systems on the Southeast Afognak, Inner and Outer Ugak Bay, Perenosa Bay, Big River and Outer Kukak Bay Sections.

^g Includes the harvest from the Waterfall, Foul Bay, and Settler Cove Terminal Harvest Areas.

^h Includes the harvest from the Duck Bay, Izhut Bay and Kitoi Bay Sections.

ⁱ Includes the harvest from the Spiridon Lake Terminal Harvest Area in Telrod Cove, and estimated harvest contribution to westside Kodiak management units (Nelson 1999).

^j Includes the harvest from the Afognak District except for the Duck Bay, Izhut Bay and Kitoi Bay Sections.

^k Includes the harvest from the Southwest Afognak Section, the Northwest Kodiak District except for the North Cape, Anton Larson, Sheratin, Kizhuyak, and part of the Central Section (259-36, -37, and -38), and the Southwest Kodiak District.

^l Includes the harvest from the Alitak Bay District.

^m Includes the harvest from the Eastside Kodiak District, Northeast Kodiak District, and the North Cape, Anton Larson, Sheratin, Kizhuyak, and part of the Central Section (259-36, -37, and -38).

ⁿ Includes the harvest from the Mainland District.

^o Includes 20,000 chinook - projected harvest.

^p Includes 19,000 chinook - actual harvest.

Table 7. Forecasts of supplemental salmon runs and expected harvests in the Kodiak Management Area, 1997. (Table from S. Honnold, ADF&G, Kodiak)

System ^a	Species	Forecast of Run			Expected Harvest ^b
		Estimate	Low	High	
Spiridon Lake	sockeye	164,000	98,000	230,000	164,000
Hidden Lake	sockeye	17,000	10,000	23,000	17,000
L. Waterfall Lake	sockeye	33,000	20,000	46,000	33,000
Crescent Lake	sockeye	14,000	8,000	20,000	14,000
	coho	7,000	3,000	10,000	7,000
Kitoi Bay Area ^c	pink	7,100,000	2,100,000	13,700,000	6,800,000
	chum	23,000	15,000	55,000	0
	coho	146,000	95,000	197,000	143,000
	ER sockeye	23,000	14,000	32,000	23,000
	LR sockeye	36,000	15,000	57,000	21,000
	Total sockeye	59,000	29,000	89,000	44,000
Afognak Lake	sockeye	7,000	4,000	12,000	7,000
Malina Lake	sockeye	12,000	6,000	18,000	0
Pauls/Laura Lake	sockeye	1,600	800	2,500	0
Katmai Lake	coho	1,500	800	2,200	1,500
Totals	pink	7,100,000	2,100,000	13,700,000	6,800,000
	chum	23,000	15,000	55,000	0
	coho	154,500	98,800	209,200	151,500
	sockeye	307,600	175,800	440,500	279,000

^a Spiridon, Hidden, Little Waterfall, Crescent, Katmai, and Little Kitoi area Lakes (Little Kitoi, Ruth, Jennifer) are barriered systems without anadromous salmon runs. Afognak, Malina, and Pauls/Laura Lakes have anadromous salmon runs.

^b Portion of the Kitoi Bay Hatchery salmon runs will not be harvested due to broodstock and/or escapement requirements.

^c Pink, and chum salmon return to Big Kitoi Bay; coho salmon return to Big Kitoi Bay, Little Kitoi Lake, Ruth Lake, and Jennifer Lakes; sockeye salmon return to Little Kitoi Bay and Lake.

Table 8. Escapement summary for systems with fish weirs in the Kodiak Management Area, 1997.

Weir Locations	Dates		Salmon Species Enumerated					Total
	Installed	Removed	Sockeye	Chinook	Pink	Coho	Chum	
1. Karluk	5/19	9/25	564,759	13,443	114,881	29,198	95	772,376
2. Ayakulik	5/23	8/30	308,214	14,357	13,594	8,451	83	344,699
3. Dog Salmon	5/27	9/01	268,328	662	136,608	3,733	5,336	414,667
4. Frazer Lake ^a	6/12	8/05	205,264 ^a	454 ^a	0 ^a	0 ^a	0 ^a	205,718 ^a
5. Upper Station	5/28	9/10	278,448	0	14,920	7,359	5	300,732
6. Akalura	5/26	9/12	18,140	0	25,092	2,409	3	45,644
7. Saltery	6/25	9/06	31,016	1	17,253	57	29	48,356
8. Buskin	5/29 8/15	7/29 10/06	9,840	70	47,396	10,926	52	68,284
9. Litnik	5/20	9/10	132,050	1	19,122	10,908	4	162,085
10. Paul's Bay	6/01	8/28	31,456	0	1,980	8,280	32	41,748
11. Malina	5/13	8/07	9,455	0	0	0	0	9,455
12. Little Kitoi	7/21 9/24	9/04 10/07	298	0	1,514	570	0	2,382
13. Bear Creek (Shuyak)	8/10	9/19	31	0	1,658	3,138	0	4,827
Totals			1,652,035	28,534	394,018	85,029	5,639	2,165,255

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

Table 9. Historical indexed salmon escapements, by species, in the Kodiak Management Area, 1962-1997.

Year ^a	Chinook	Sockeye	Coho	Pink	Chum	TOTAL
1962		922,500		4,600,000	297,900	5,820,400
1963		502,227		1,026,075	75,520	1,603,822
1964		600,346		3,358,074	261,429	4,219,849
1965		561,980		772,874	67,156	1,402,010
1966		652,578		2,100,000	143,700	2,896,278
1967		720,683		698,710	136,079	1,555,472
1968	703	645,612		2,800,000	121,000	3,567,315
1969	7,752	592,020		1,581,335	77,285	2,258,392
1970	3,900	573,603		3,392,577	123,150	4,093,230
1971	4,524	456,197		1,070,173	249,327	1,780,221
1972	3,047	605,491		1,053,391	335,115	1,997,044
1973	4,762	543,111		604,592	258,044	1,410,509
1974	1,622	995,925	20,396	2,041,099	86,383	3,145,425
1975	3,059	704,801	29,634	1,100,555	156,761	1,994,810
1976	8,413	1,075,226	36,083	3,105,320	312,914	4,537,956
1977	13,804	1,269,374	59,095	2,212,488	742,384	4,297,145
1978	14,677	1,000,353	37,479	5,006,273	482,956	6,541,738
1979	14,445	1,410,800	93,940	3,067,647	607,430	5,194,262
1980	5,853	1,831,748	27,290	6,492,822	830,070	9,187,783
1981	15,657	1,391,593	58,729	3,188,869	741,981	5,396,829
1982	10,773	1,603,692	86,402	5,370,049	1,023,923	8,094,839
1983	27,445	1,304,233	101,950	2,090,104	824,754	4,348,486
1984	14,411	1,467,730	123,779	4,520,344	682,936	6,809,200
1985	13,877	2,554,067	191,406	3,204,316	723,390	6,687,056
1986	11,046	2,001,279	170,000	4,068,615	655,817	6,906,757
1987	23,744	1,551,543	153,000	2,978,510	641,579	5,348,376
1988	35,152	1,661,532	96,140	3,236,931	558,531	5,588,286
1989 ^b	26,131	3,022,886	166,622	14,642,587	1,432,609	19,290,835
1990	25,972	2,006,241	151,420	6,024,900	474,620	8,683,153
1991	27,306	2,515,659	259,850	4,317,610	934,336	8,054,761
1992	19,013	1,968,058	289,592	3,515,624	530,128	6,322,415
1993	22,113	1,705,440	159,996	4,291,581	234,381	6,413,511
1994	21,591	2,041,511	206,418	3,994,020	545,391	6,808,931
1995	30,843	1,840,112	231,175	10,498,232	469,856	13,070,218
1996	21,089	1,813,256	189,618	3,351,011	394,784	5,769,758
1997	28,534	1,789,749	234,839	3,253,029	459,293	5,765,444
AVERAGES						
All Years	15,375	1,330,643	132,286	3,573,065	463,692	5,515,061
1988-1997	25,774	2,036,444	198,567	5,712,553	603,393	8,576,731
Odd Year, 1987-1997				6,663,592		
Even Year, 1988-1996				4,024,497		

^a Indexed escapements include peak counts from aerial surveys and foot surveys, plus end of season totals from weired systems. Different streams may have been surveyed in each year; these estimates reflect all streams surveyed in each year.

^b Fisheries were severely restricted in 1989 due to the *M/V Exxon Valdez* oil spill.

Table 10. Board of Fisheries approved fishery management plans for the Kodiak Management Area, 1997.

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 - 10/31
Westside Kodiak Management Plan	1990	N.W. Kodiak District S.W. Kodiak District S.W. Afognak Section	6/9 - 10/31
Crescent Lake Coho Salmon Management Plan	1990	Portion of the Central Section in Vicinity of Port Lions	7/15 - 10/31
North Shelikof Strait Sockeye Salmon Management Plan	1990	S.W. Afognak Section N.W. Afognak Section Shnyak Section Big River Section Hallo Bay Section Inner and Outer Kukak Section Dakavak Section	7/6 - 7/25
Eastside Afognak Management Plan	1993	Kitoy Bay Section Izhut Bay Section Duck Bay Section	6/9 - 10/31
Spiridon Lake Sockeye Salmon Management Plan	1993	Terminal Harvest Area in Spiridon Bay Section	6/9 - 10/31
Eastside Kodiak Salmon Management Plan	1995	N.E. Kodiak District Eastside Kodiak District	6/14 - 10/31
North Afognak / Shuyak Salmon Management Plan	1995	N.E. Afognak Section Perenosa Bay Section Shuyak Island Section N.W. Afognak Section	6/9 - 10/31

Table 11. Commercial salmon buyers and processors, Kodiak Management Area, 1997.

Buyers/Processors ^a	Shorebased Processors			Floating Processors			Product	
	Kodiak City	Kodiak Borough	Other Areas	Kodiak City	Kodiak Borough	Other Areas	Canned	Frozen
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			X
Cook Inlet Processors-Uganik		X					X	
International Seafoods	X							X
Kodiak King Crab, Inc.	X				X		X	X
Kodiak Salmon Packers-Larsen Bay		X					X	X
Western Alaska Seafoods	X							X
Island Seafoods	X							X
Kodiak Smoking & Processing		X						X
Royal Pacific Seafoods			X					X
Favco			X					X
TOTALS	6	5	0	0	2	0	6	10

^a In 1997 only 11 individual companies participated in the Kodiak Management Area commercial salmon fisheries. Two companies operated more than one shorebased processing plant. The total number of salmon processing locations for KMA salmon in 1995 was 13.

Table 12. Commercial salmon harvest and value, by gear type and species, in the Kodiak Management Area, 1997.

Purse Seine	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Total # ^a	16,667	1,470,305	326,259	9,606,730	397,638	11,817,599	81.73
Avg. Wt.	9.97	5.20	7.92	3.31	8.02		
Total Lbs. ^a	166,198	7,643,589	2,583,632	31,795,066	3,187,497	45,375,982	78.50
Avg. \$/Lb. ^b	0.64	0.94	0.57	0.16	0.19		
Exvessel \$	106,200.52	7,215,548.02	1,480,421.14	4,928,235.23	608,811.93	\$14,339,216.83	68.22

# of Permits=	261						
Average Value \$	406.90	27,645.78	5,672.11	18,882.13	2,332.61	\$54,939.53	
Percent	0.74	50.32	10.32	34.37	4.25	100.00	

Beach Seine	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Total # ^a	28	3,169	32	48,104	671	52,004	0.36
Avg. Wt.	0.00	4.88	8.94	3.46	9.22		
Total Lbs. ^a	600	15,468	286	166,212	6,184	188,750	0.33
Avg. \$/Lb. ^b	0.64	0.94	0.57	0.16	0.19		
Exvessel \$	383.40	14,601.79	163.88	25,762.86	1,181.14	\$42,093.07	0.20

# of Permits=	5						
Average Value \$	76.68	2,920.36	32.78	5,152.57	236.23	\$8,418.61	
Percent	0.91	34.69	0.39	61.20	2.81	100.00	

Set Gillnet	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Total # ^a	2,033	1,029,949	54,714	1,380,189	121,955	2,588,840	17.91
Avg. Wt.	8.87	5.33	8.27	3.85	7.92		
Total Lbs. ^a	20,071	5,492,133	452,394	5,311,792	965,333	12,241,723	21.18
Avg. \$/Lb. ^b	0.66	0.98	0.51	0.16	0.18		
Exvessel \$	13,166.58	5,365,813.94	230,268.55	855,198.51	171,829.27	\$6,636,276.85	31.57

# of Permits=	174						
Average Value \$	75.67	30,838.01	1,323.38	4,914.93	987.52	\$38,139.52	
Percent	0.20	80.86	3.47	12.89	2.59	100.00	

Total All Gear	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Total # ^a	18,728	2,503,423	381,005	11,035,023	520,264	14,458,443	100.00
Avg. Wt.	9.98	5.25	7.97	3.38	7.99		
Total Lbs. ^a	186,869	13,151,190	3,036,312	37,273,070	4,159,014	57,806,455	100.00
Avg. \$/Lb. ^b	0.64	0.96	0.56	0.16	0.19		
Exvessel \$	119,750.50	12,595,963.75	1,710,853.56	5,809,196.60	781,822.35	\$21,017,586.75	100.00
% of Total Value	0.57	59.93	8.14	27.64	3.72	100.00	

Test Fishery	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Total # ^a	0	2,362	3	105	65	2,535	0.02
Avg. Wt.	0.00	5.31	0.00	0.00	8.05		
Total Lbs. ^a	0	12,553	9	394	523	13,479	0.02
Avg. \$/Lb. ^b	0.64	0.98	0.51	0.16	0.18		
Exvessel \$	0.00	12,264.28	4.58	63.43	93.09	\$12,425.39	0.06

^a Numbers and pounds of fish are derived from fish ticket summaries. There were 12,861 fish tickets generated in 1997; each ticket represents a landing. Each gear type had the following landings: Purse Seine - 6,391; Beach Seine - 67; Set Gillnet - 6,375; and Test Fishery (ADF&G) - 28.

^b Average price per pound figures are based on Commercial Fisheries Entry Commission data from Processor End of Season reports. These average prices reflect payments made to fishers for iced fish, dock deliveries, and postseason settlements.

Table 13. Salmon average weights and average price per pound, by species, from commercial salmon fisheries of the Kodiak Management Area, 1990-1997.

	Gear Type	Average Price per Pound ^a				
		Chinook	Sockeye	Coho	Pink	Chum
1990						
Avg. Wt. ^b		12.19	5.20	8.23	3.18	7.69
Avg. \$/lb. :	Seine ^c	\$1.06	\$1.55	\$0.75	\$0.34	\$0.51
	Gillnet	\$1.07	\$1.50	\$0.71	\$0.34	\$0.48
1991						
Avg. Wt. ^b		12.14	5.11	7.26	2.92	6.98
Avg. \$/lb. :	Seine ^c	\$0.72	\$0.93	\$0.56	\$0.13	\$0.30
	Gillnet	\$0.72	\$0.91	\$0.46	\$0.14	\$0.28
1992						
Avg. Wt. ^b		14.31	5.68	8.18	3.75	7.25
Avg. \$/lb. :	Seine ^c	\$1.02	\$1.47	\$0.56	\$0.18	\$0.39
	Gillnet	\$1.00	\$1.46	\$0.59	\$0.16	\$0.33
1993						
Avg. Wt. ^b		11.92	5.13	6.72	3.13	5.99
Avg. \$/lb. :	Seine ^c	\$0.78	\$0.88	\$0.47	\$0.16	\$0.28
	Gillnet	\$0.60	\$0.85	\$0.35	\$0.15	\$0.22
1994						
Avg. Wt. ^b		13.95	4.98	8.69	3.81	7.43
Avg. \$/lb. :	Seine ^c	\$0.72	\$1.27	\$0.69	\$0.18	\$0.23
	Gillnet	\$0.58	\$1.26	\$0.70	\$0.17	\$0.23
1995						
Avg. Wt. ^b		13.78	5.11	8.03	3.51	7.49
Avg. \$/lb. :	Seine ^c	\$0.70	\$1.07	\$0.41	\$0.17	\$0.28
	Gillnet	\$0.63	\$1.03	\$0.36	\$0.16	\$0.24
1996						
Avg. Wt. ^b		13.66	5.68	8.16	3.46	8.17
Avg. \$/lb. :	Seine ^c	\$0.65	\$0.89	\$0.43	\$0.07	\$0.15
	Gillnet	\$0.66	\$0.90	\$0.41	\$0.07	\$0.13
1997						
Avg. Wt. ^b		9.98	5.25	7.97	3.38	7.99
Avg. \$/lb. :	Seine ^c	\$0.64	0.94	\$0.57	\$0.16	\$0.19
	Gillnet	\$0.66	\$0.98	\$0.51	\$0.16	\$0.18

^a Average price information is from Commercial Fisheries Entry Commission reports, based on Processor's End of Season Reports (includes bonuses and postseason adjustments).

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

^c CFEC reports DO NOT distinguish price differences between purse seine and beach seine gear.

Table 14. Estimated commercial salmon harvest and value, by gear type, in the Kodiak Management Area, 1970 - 1997.

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	\$38,723,961	\$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	\$52,611,882	\$113,326	\$10,424	\$66,715
1991	23,723,008	\$37,019,293	\$77,511	\$5,257	\$53,817
1992	8,462,464	\$40,498,352	\$98,388	\$5,436	\$41,984
1993	39,341,025	\$38,554,977	\$94,927	\$8,230	\$43,889
1994	12,098,324	\$27,103,339	\$67,545	\$9,392	\$46,189
1995	49,166,896	\$53,921,533	\$135,769	\$14,388	\$66,165
1996	9,215,978	\$27,627,620	\$71,080	\$2,954	\$52,632
1997	14,460,978	\$21,017,587	\$54,940	\$8,419	\$38,140
Average ^d - Previous 10 Years:					
1986-1996	19,719,099	\$45,098,576	\$108,346	\$13,065	\$60,027
Average ^d - Recent Decade:					
1990-1997	21,073,883	\$37,294,323	\$89,186	\$8,063	\$51,191
Average ^d - Previous Decades:					
1970-1979	8,155,238	\$13,043,764	\$31,079	\$8,256	\$11,475
1980-1988	12,984,676	\$34,699,090	\$85,115	\$18,067	\$42,725
Average ^d - Overall					
1970-1997	13,592,797	\$27,447,557	\$66,308	\$11,469	\$33,659

^a Number of fish. Includes commercial harvest, test fisheries, and Kitoi Bay Hatchery cost recovery harvests.

^b Exvessel values for 1970-76 are based on inseason price estimates, and do not include post season adjustments. Values from 1977-88 and 1990-97 are from Commercial Fisheries Entry Commission reports.

^c In 1989 due to the presence of oil from the M/V Exxon Valdez spill there were extensive fishery closures. Harvest figures include actual and projected harvest of wild stocks and actual harvest of hatchery stocks from a supplemental cost recovery fishery. The 1989 exvessel value is estimated by multiplying price information from CFEC records for the limited fisheries that did occur by the projected total harvest had there been no oil spill. The 1989 exvessel value by gear type is estimated by using 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 not included in averages.

Table 15. Subsistence salmon fishery harvest , by species, for the Kodiak Management Area, 1962-1997.

Year	Permits Issued ^a	Permits Returned ^a	Percent Returned	Subsistence Harvest ^a					TOTAL
				Chinook	Sockeye	Coho	Pink	Chum	
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	53	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	658	56	49	12,924	4,029	2,458	484	19,944
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	2,421	1,316	23,852
1988	1,098	706	64	108	10,142	4,291	1,320	366	16,227
1989 ^{b,c}	2,800	716	N/A	43	12,638	4,123	1,553	419	18,776
1990 ^c	2,900	1,181	N/A	131	17,972	8,646	1,605	655	29,009
1991	1,406	1,223	87	177	21,835	8,208	1,743	714	32,677
1992	1,561	1,193	76	318	20,684	8,643	1,646	643	31,934
1993	1,496	914	61	243	19,521	7,188	2,696	838	30,486
1994 ^d	2,550	1,518	60	205	17,962	7,491	1,758	440	27,856
1995	1,949	1,218	62	175	19,416	5,603	1,548	293	27,035
1996	1,567	1,429	91	253	28,287	5,117	1,125	381	35,163
1997	2,120	1,618	76	383	33,056	6,142	1,449	234	41,264
AVERAGES									
All Years, 1962-97				91	10,303	3,842	1,675	519	16,429
Previous 10 Years									
1987-96				175	18,173	6,605	1,742	607	27,302
1977-86				108	13,285	5,373	2,721	592	22,078
1967-76				3	2,232	1,055	1,234	577	5,102

^a Data is compiled from Kodiak Annual Management Reports and subsistence data base. This provides an estimate of reported subsistence harvests, but may not represent the total subsistence salmon harvest.

^b This represents only the harvest for individuals returning permits to ADF&G. In 1989 there was also an Exxon sponsored subsistence fishery in Karluk Lagoon. Harvest totaled an additional 1 chinook, 13,329 sockeye, 523 coho, 47 pink, and 19 chum salmon.

^c Permits were mailed to all previous applicants. Many were returned as undeliverable.

^d Salmon and shellfish subsistence permitting programs were merged.

Table 16. Sport fish salmon harvest in the Kodiak regulatory area of the Kodiak Management Area, 1977-1997.

Year ^a	Chinook ^b	Sockeye ^b	Coho ^b	Pink ^b	Chum ^b	Total ^b
1977	483	1,255	4,716	14,519	1,645	22,618
1978	350	1,776	4,927	17,739	1,287	26,079
1979	752	2,436	11,522	15,871	500	31,081
1980	327	2,178	12,692	18,969	525	34,691
1981	789	1,620	10,584	12,259	637	25,889
1982	1,120	3,055	13,329	18,850	1,324	37,678
1983	729	3,150	7,823	8,936	816	21,454
1984	921	5,385	14,612	12,779	1,321	35,018
1985	762	7,536	13,625	13,423	865	36,211
1986	520	5,259	20,873	14,509	336	41,497
1987	379	4,165	16,912	11,662	560	33,678
1988	1,564	6,222	18,809	19,044	1,546	47,185
1989	1,087	6,789	19,802	17,794	631	46,103
1990	996	6,056	13,728	7,464	191	28,435
1991	2,508	5,049	17,691	12,106	1,517	38,871
1992	2,217	6,240	13,668	5,904	625	28,654
1993	5,092	7,849	21,241	12,324	504	47,010
1994	3,166	12,502	12,406	5,336	290	33,700
1995	2,662	7,994	13,236	11,926	981	36,799
1996	2,407	10,158	16,822	6,917	692	36,996
1997	5,221	8,259	23,763	5,873	235	43,351
AVERAGES						
Previous 10 Years						
1987-1996	2,208	7,302	16,432	11,048	754	37,743
Recent 5 Year Periods						
1993-1997	3,710	9,352	17,494	8,475	540	39,571
1988-1992	1,674	6,071	16,740	12,462	902	37,850
1983-1987	662	5,099	14,769	12,262	780	33,572
All Years						
1977-1997	1,622	5,473	14,418	12,581	811	34,905

^a The Kodiak regulatory area encompasses only the Kodiak Archipelago. Estimated harvests from the Mainland District of the Kodiak Management Area are summarized in Alaska Peninsula/Aleutian Islands regulatory area statistics.

^b Numbers includes harvest from both marine and freshwater fisheries. Harvest data from Howe et al. 1998. Does not include estimated number of salmon caught and released.

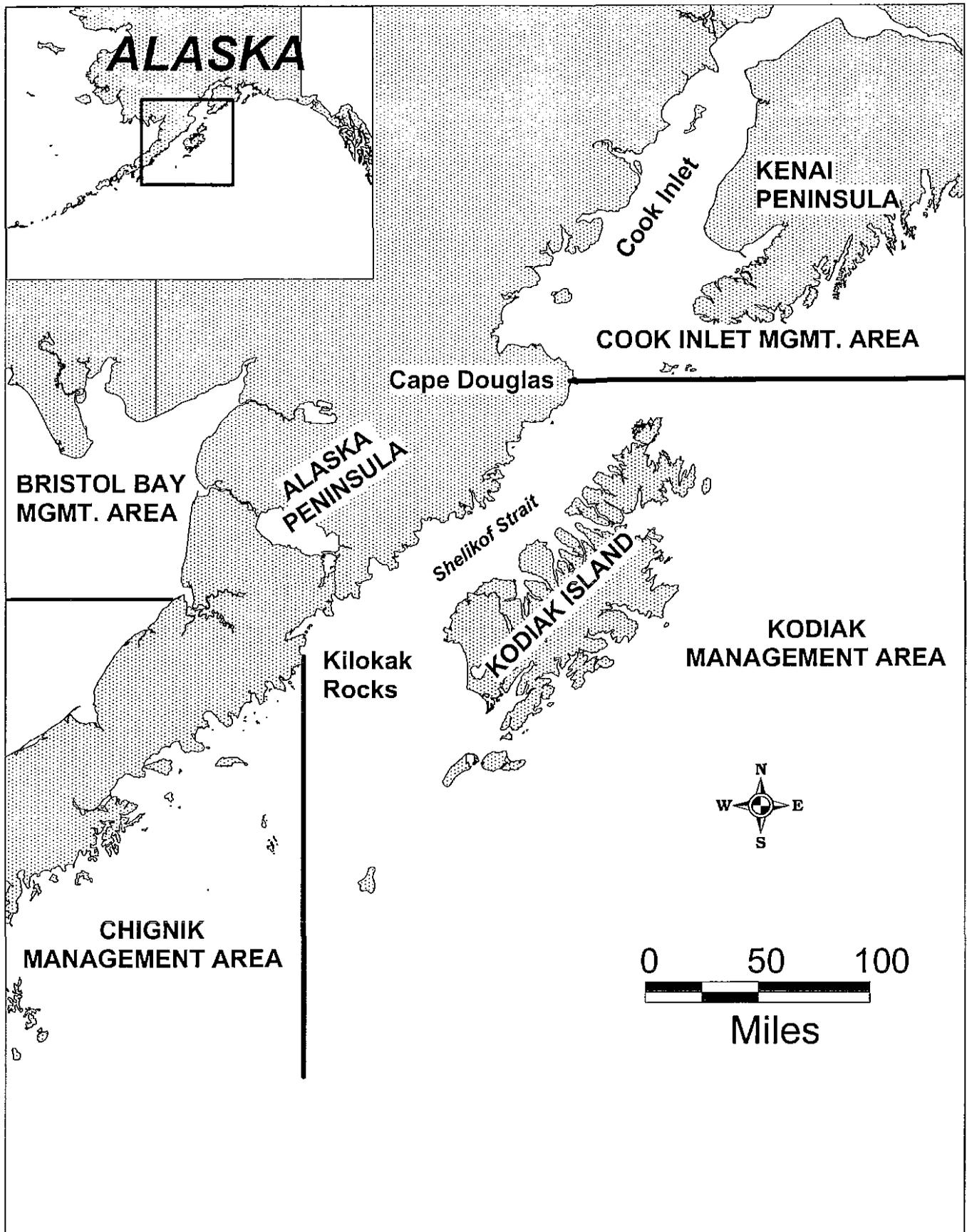


Figure 1. Location of the Kodiak Management Area, 1997.

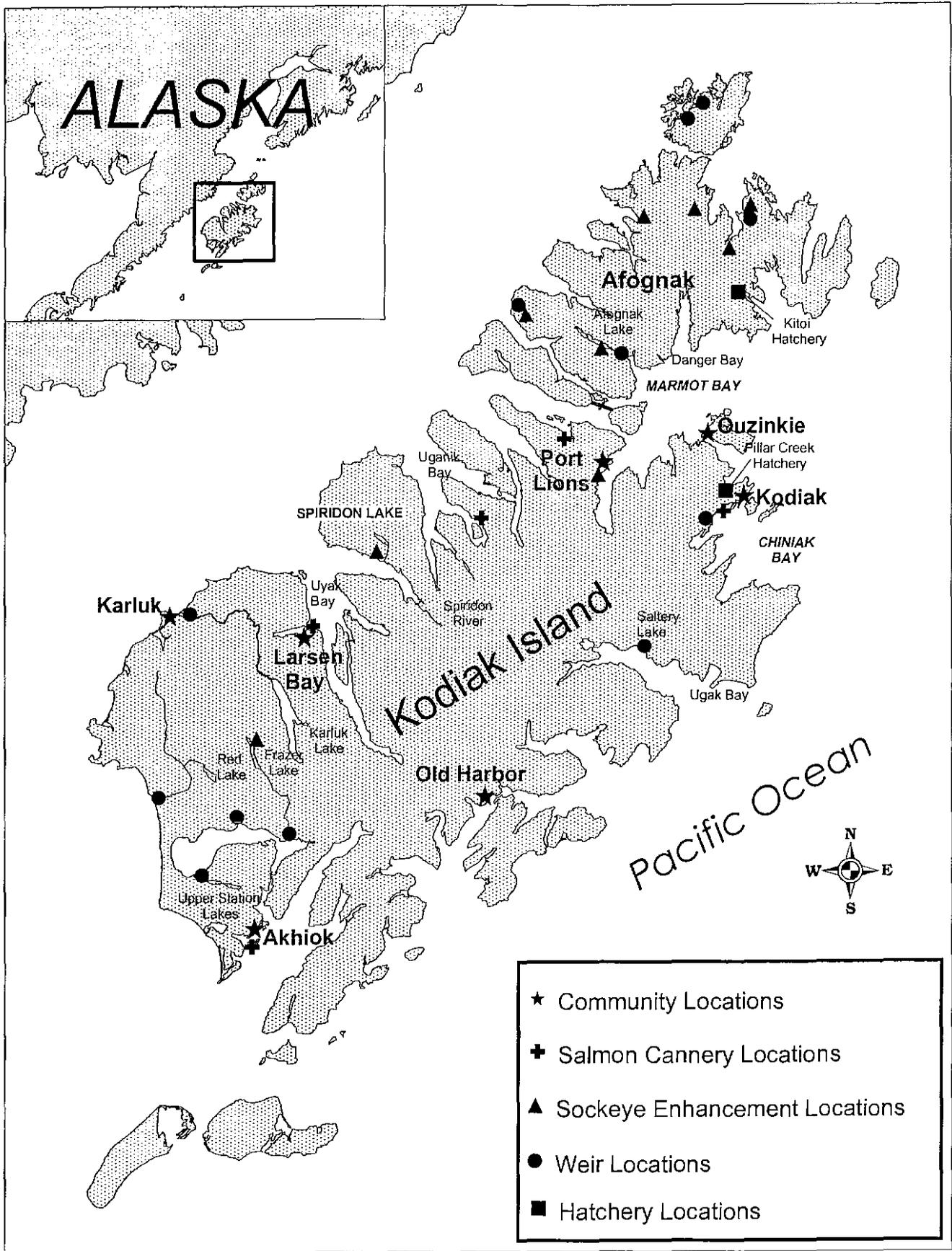


Figure 2. Map of Kodiak Island showing communities, canneries, sockeye salmon enhancement, weir and hatchery locations of the Kodiak Management Area, 1997.

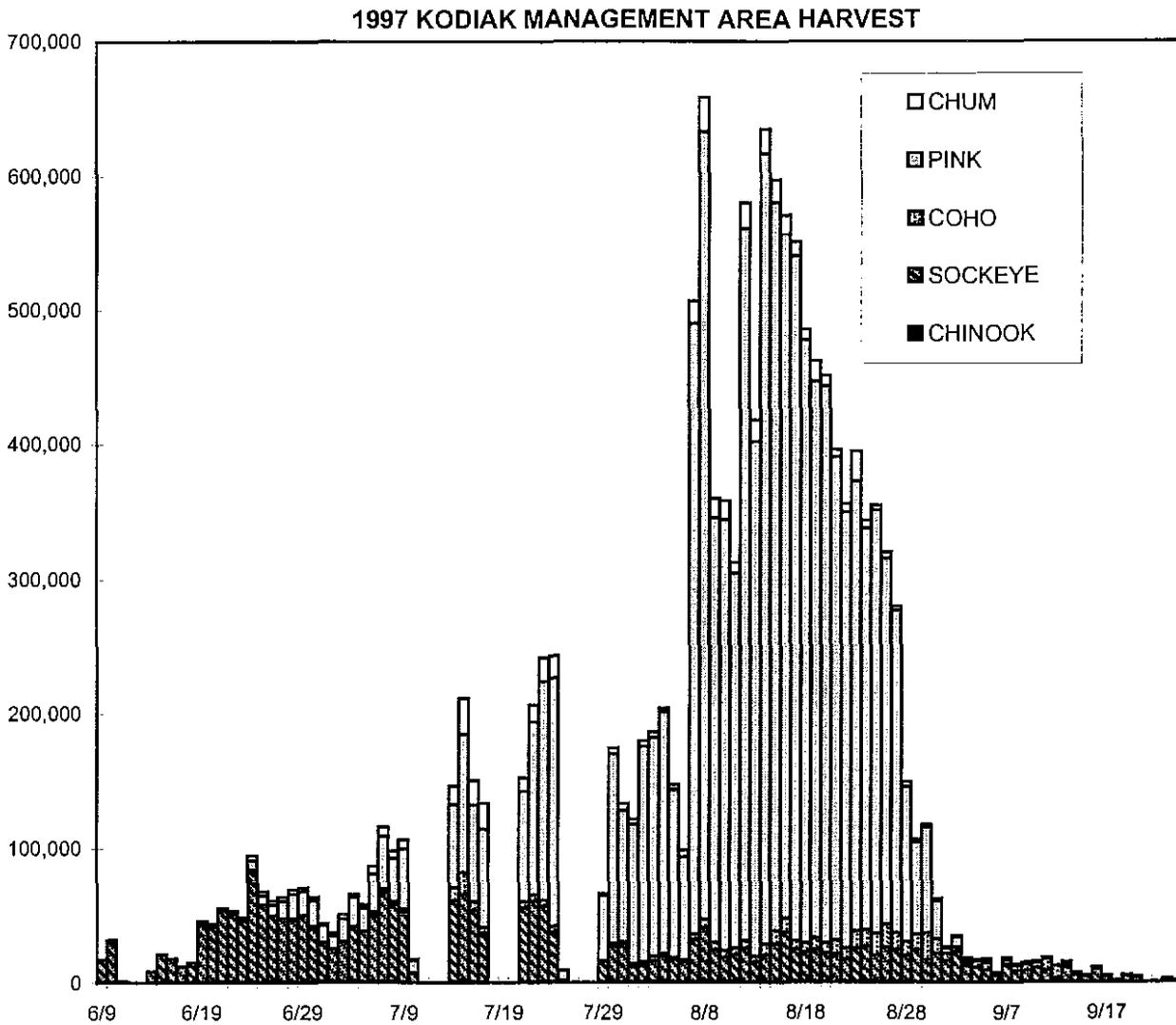
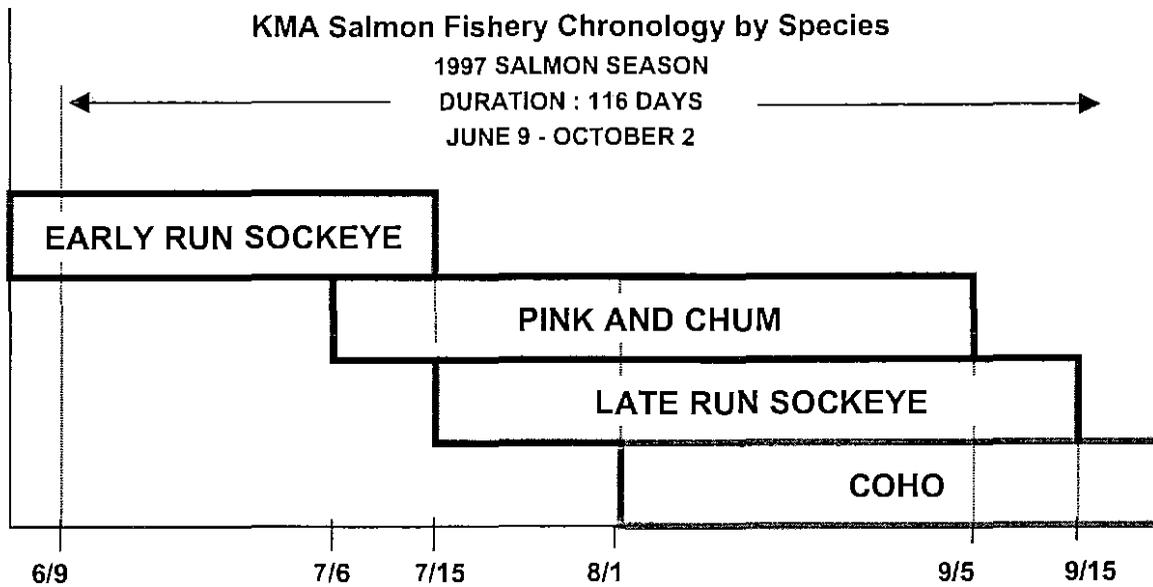
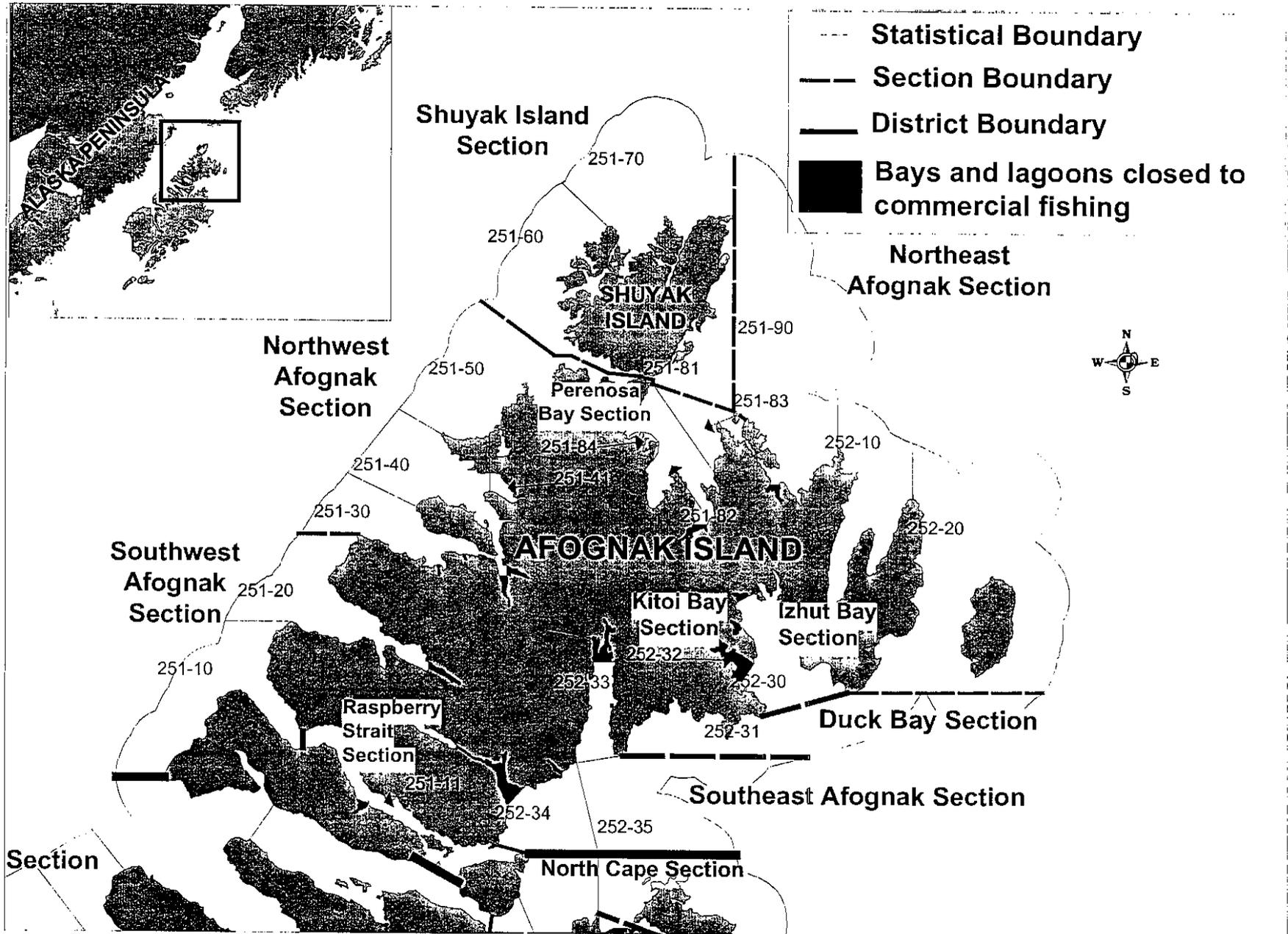


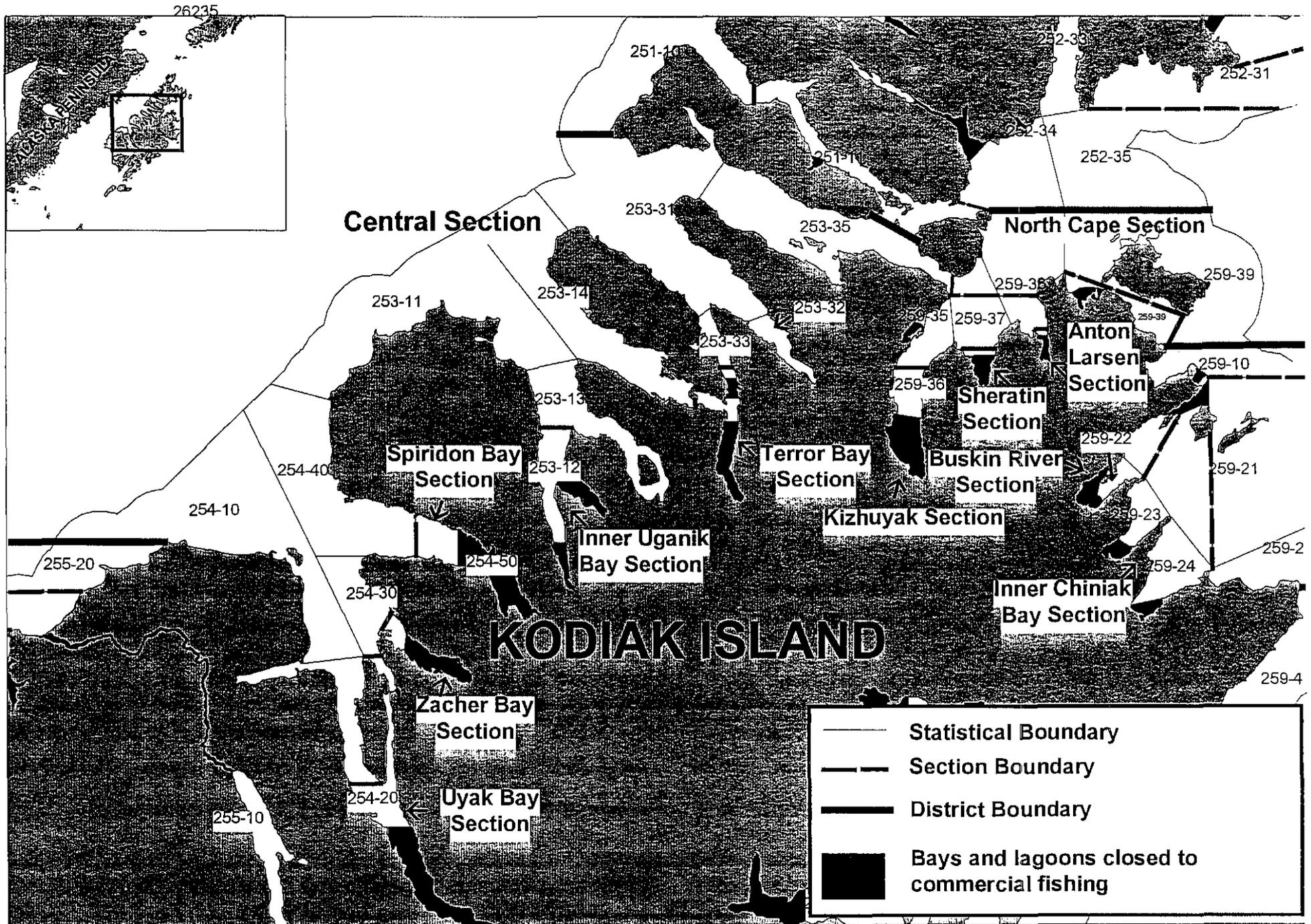
Figure 3. Commercial salmon fishery chronology, by species, in the Kodiak Management Area, 1997.

APPENDIX

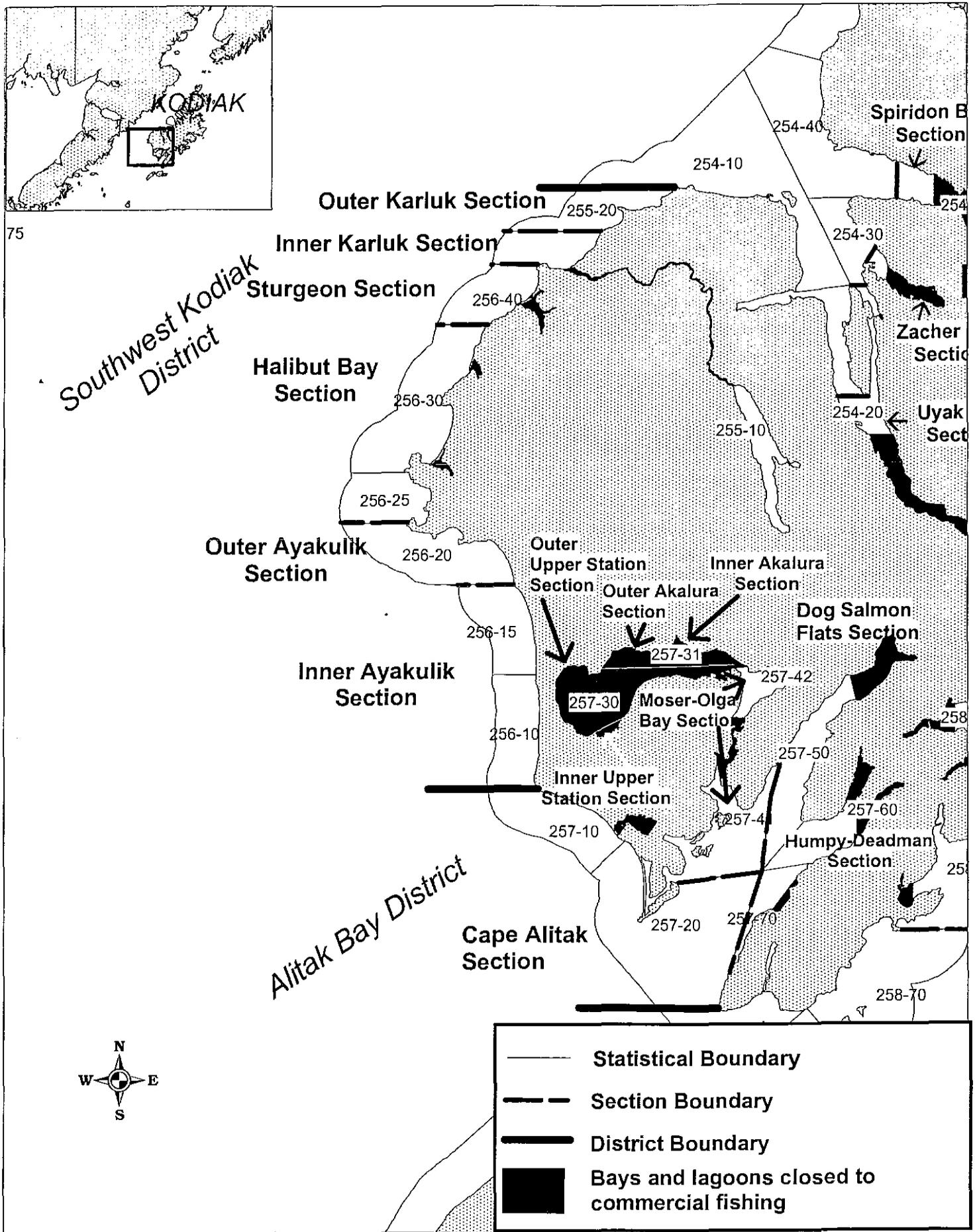
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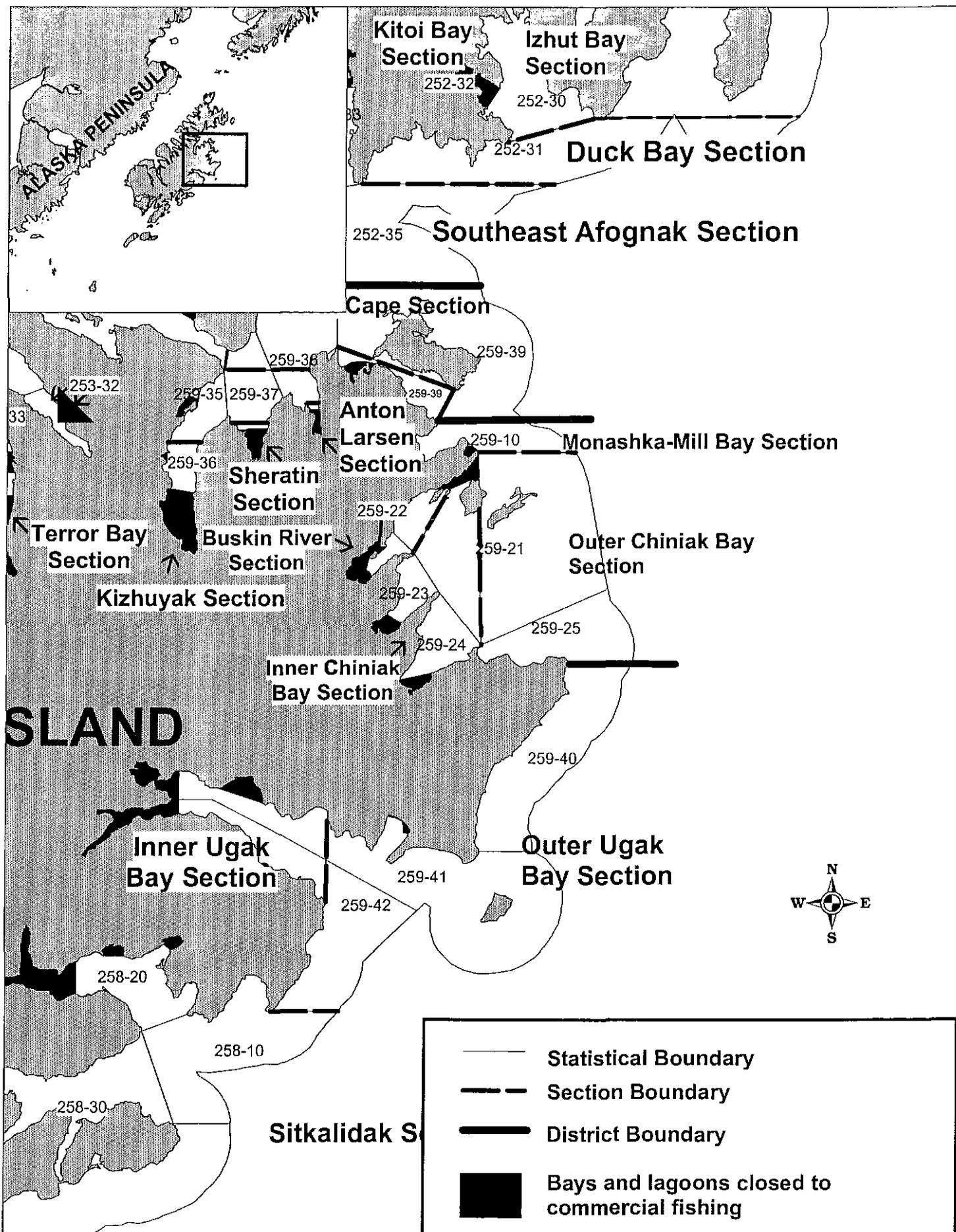
Appendix A.1. Afognak District of the Kodiak Management Area, 1997.



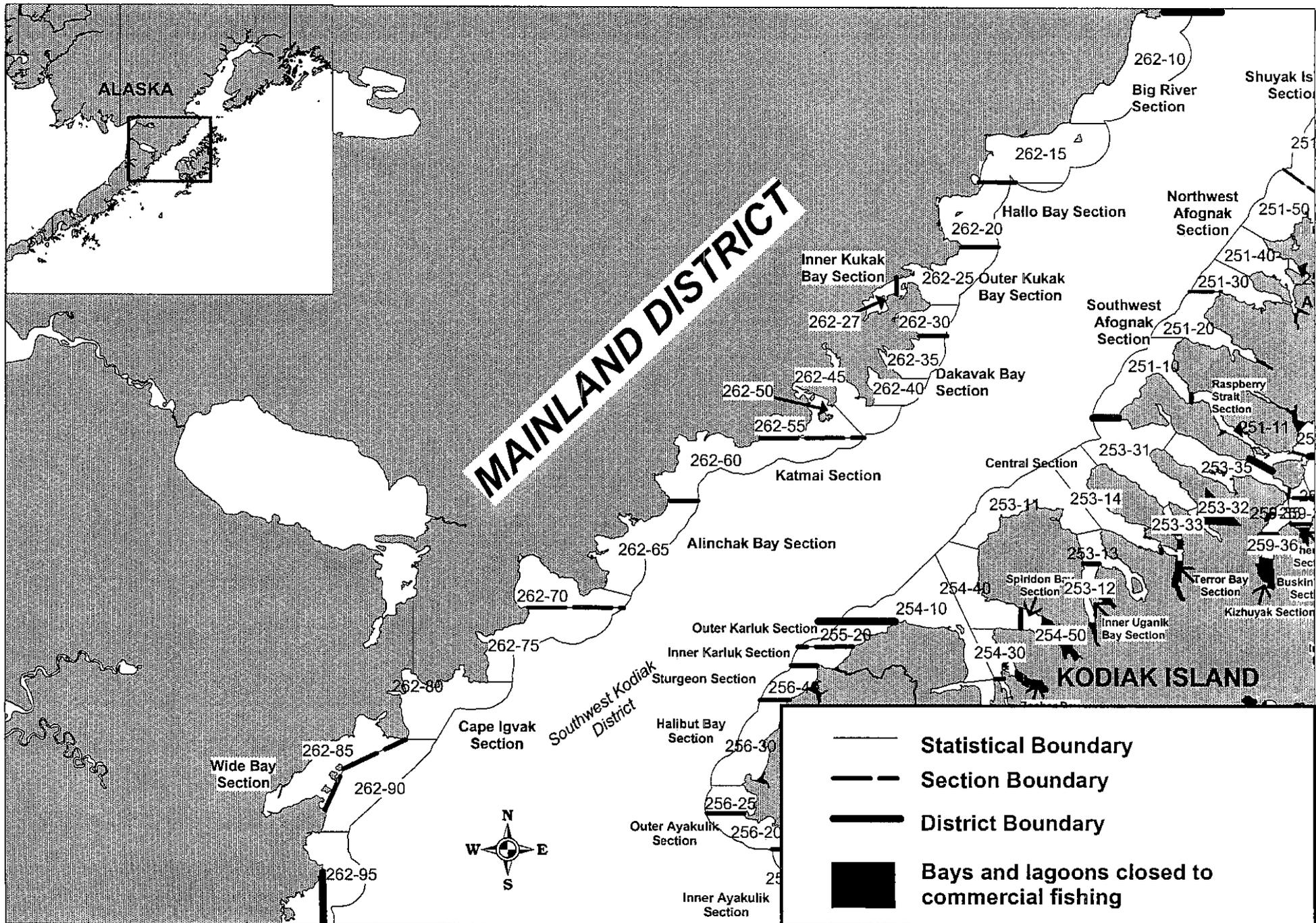
Appendix A.2. Northwest Kodiak District of the Kodiak Management Area, 1997.



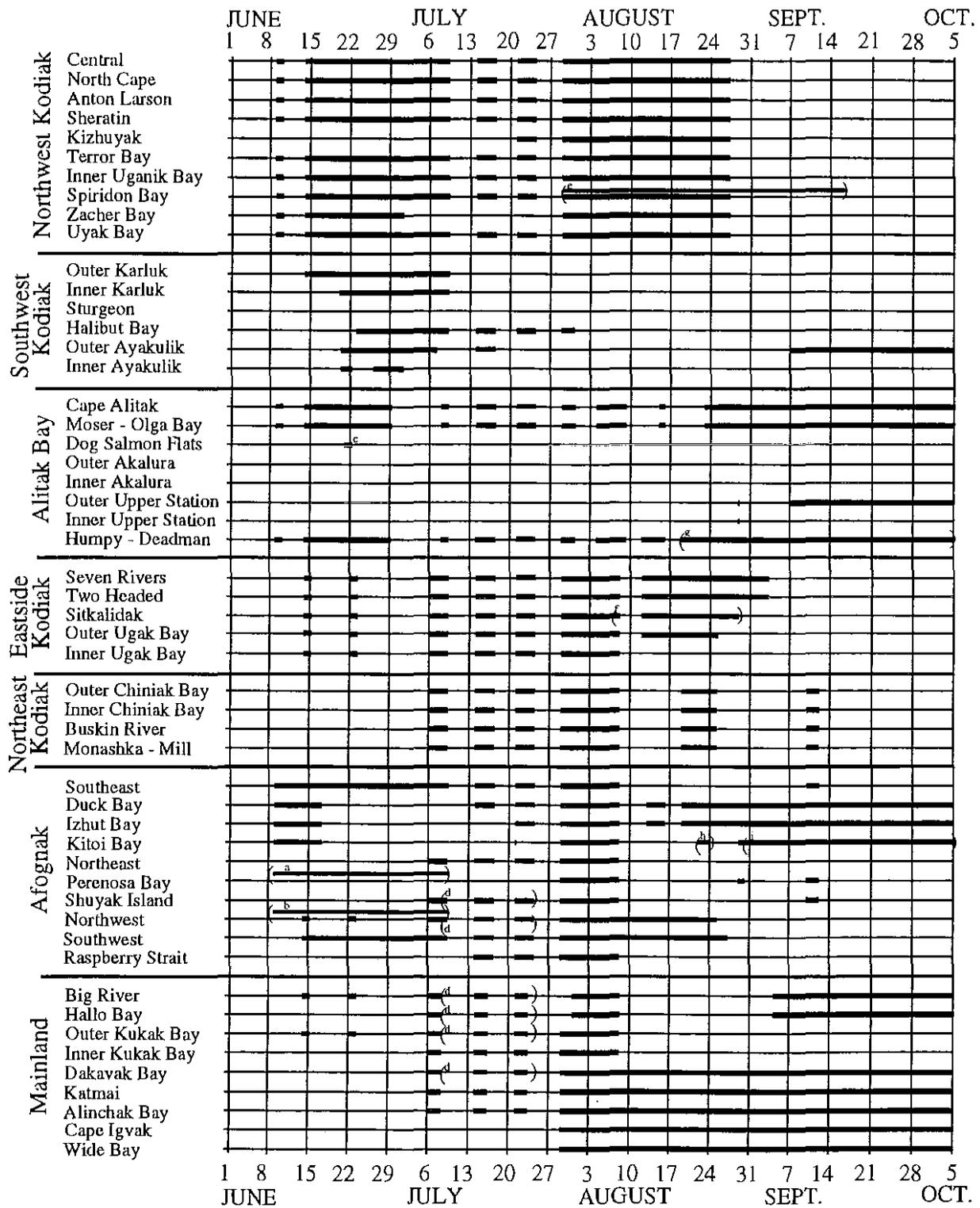
Appendix A.3. Southwest Kodiak and Alitak Bay Districts of the Kodiak Management Area, 1997.



Appendix A.5. Northeast Kodiak District of the Kodiak Management Area, 1997.



Appendix B.1. Commercial salmon fishing time, by district and section, in the Kodiak Management Area, 1997.



- (a) Waterfall Terminal Harvest Area open.
- (b) Four Bay Terminal Harvest Area open.
- (c) Dog Salmon Flats west of 154 W. long. open.
- (d) Seaward Zones closed 5 PM 7/8.
- (e) Spiridon Lake Terminal Harvest Area open.
- (f) Sitkalidak Section in Kiliuda Bay remains closed.
- (g) Portage and Sulna Bays remain closed.
- (h) Kitoi Bay Section west of the Jaws remains closed.
- (i) Kitoi Bay Section west of the Jaws closed after 6PM 8/29.

Appendix B.2. Summary of emergency orders issued for the commercial salmon fishery in the Kodiak Management Area, 1997.

E.O.#	Issued	Effective	Action Taken
1	1:30 PM 6/6/97	12:00 Noon 6/9/97	<p><u>Opening</u> for 33 hours, 12:00 Noon 6/9 to 9:00 PM 6/10</p> <ul style="list-style-type: none"> - Northwest Kodiak District except the Kizhuyak Section - Alitak Bay District <p><u>Opening</u> until further notice, 12:00 Noon 6/9</p> <ul style="list-style-type: none"> - Southeast Afognak, Duck Bay, Izhut Bay, and Kitoi Bay Sections - Foul Bay and Waterfall Bay Terminal Harvest Areas <p><u>Closed water adjustments</u> Reduced in: Afognak Bay, Foul Bay, Little Waterfall Bay, and Kitoi Bay until further notice; Settler Cove until 9:00 PM 6/10.</p>
2	2:30 PM	12:00 Noon 6/14/97	<p><u>Opening</u> for 33 hours, 12:00 Noon 6/14 to 9:00 PM 6/15</p> <ul style="list-style-type: none"> - Northwest and Southwest Afognak Sections - Northwest Kodiak District, except the Kizhuyak Section - Outer Karluk Section - Alitak Bay District - Eastside Kodiak District - Outer Kukak Bay and Big River Sections <p><u>Closed water adjustments</u> Reduced in: Settlers Cove, Saltery Cove, and Kaflia Bay, Until 9:00 PM 6/15</p>
3	10:00 AM 6/14/97	9:00 PM 6/15/97	<p><u>Extension</u> for 72 hours, 9:00 PM 6/15 to 9:00 PM 6/18</p> <ul style="list-style-type: none"> - Alitak Bay District <p><u>Extension</u> until further notice, 9:00 PM 6/15</p> <ul style="list-style-type: none"> - Southwest Afognak Section - Northwest Kodiak District, except the Kizhuyak Section - Outer Karluk Section <p><u>Closed water adjustments</u> Reduced in: Settlers Cove, until further notice</p>
4	2:00 PM 6/16/97	9:00 PM 6/17/97	<p><u>Extension</u> until further notice, 9:00 PM 6/18</p> <ul style="list-style-type: none"> - Alitak Bay District <p><u>Closure</u> at 9:00 PM 6/17</p> <ul style="list-style-type: none"> - Duck Bay, Izhut Bay, and Kitoi Bay Sections <p><u>Closed water adjustments</u> Increased in: Kitoi Bay, at 9:00 PM 6/17</p>

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E.O.#	Issued	Effective	Action Taken
5	1:30 PM 6/18/97	12:00 Noon 6/20/97	<u>Opening</u> until further notice, 12:00 Noon 6/20 - Inner Karluk Section
		9:00 PM 6/20/97	<u>Opening</u> for 48 hours, 9:00 PM 6/20 to 9:00 PM 6/22 - Inner Ayakulik Section (Flare Opening) - Outer Ayakulik Section
6	4:00 PM 6/19/97	12:00 Noon 6/21/97	<u>Opening</u> for 33 hours, 12:00 Noon 6/21 to 9:00 PM 6/22 - Dog Salmon Flats, west of 154° W. long.
		12:00 Noon 6/22/97	<u>Opening</u> for 33 hours, 12:00 Noon 6/22 to 9:00 PM 6/23 - Northwest Afognak Section - Eastside Kodiak District - Outer Kukak Bay and Big River Sections
			<u>Closed water adjustments</u> Reduced in: Saltery Cove and Kaflia Bay until 9:00 PM 6/23
7	9:00 AM 6/22/97	9:00 PM 6/22/97	<u>Extension</u> for 72 hours, 9:00 PM 6/22 to 9:00 PM 6/25 - Outer Ayakulik Section
		12:00 Noon 6/23/97	<u>Opening</u> for 57 hours, 12:00 Noon 6/23 to 9:00 PM 6/25 - Halibut Bay Section
8	11:00 AM 6/25/97	9:00 PM 6/25/97	<u>Extension</u> for 72 hours, 9:00 PM 6/25 to 9:00 PM 6/28 - Halibut Bay Section - Outer Ayakulik Section
		2:00 PM 6/26/97	<u>Opening</u> for 55 hours, 2:00 PM 6/26 to 9:00 PM 6/28 - Inner Ayakulik Section (Flare Opening)
9	11:00 AM 6/27/97	9:00 PM 6/28/97	<u>Extension</u> for 72 hours, 9:00 PM 6/28 to 9:00 PM 7/1 - Halibut Bay Section - Inner Ayakulik Section - Outer Ayakulik Section
		<u>Closure</u> at 9:00 PM 6/29 - Alitak Bay District	
10	1:30 PM 6/30/97	9:00 PM 7/1/97	<u>Extension</u> for 72 hours, 9:00 PM 7/1 to 9:00 PM 7/4 - Halibut Bay Section - Outer Ayakulik Section
		9:00 PM 7/1/97	<u>Closure</u> at 9:00 PM 7/1 - Zachar Bay Section - Inner Ayakulik Section

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E.O.#	Issued	Effective	Action Taken
11	2:30 PM 7/3/97	9:00 PM 7/4/97	<u>Extension</u> for 72 hours, 9:00 PM 7/4 to 9:00 PM 7/7 - Halibut Bay Section - Outer Ayakulik Section
		12:00 Noon 7/6/97	<u>Opening</u> for 81 hours, 12:00 Noon 7/6 to 9:00 PM 7/9 - Northwest Afognak, Shuyak Island, and Northeast Afognak Sections - Eastside Kodiak District - Northeast Kodiak District
		12:00 Noon 7/6/97	<u>Opening</u> for 57 hours, 12:00 Noon 7/6 to 9:00 PM 7/8 - Mainland District, except Cape Igvak and Wide Bay Sections
		9:00 PM 7/9/97	<u>Closure</u> at 9:00 PM 7/9/97 - Foul Bay and Waterfall Bay Terminal Harvest Areas - Southwest and Southeast Afognak Sections - Northwest Kodiak District - Inner and Outer Karluk Sections
			<u>Closed water adjustments</u> Increased in: Settlers Cove, Afognak Bay, Foul Bay and Little Waterfall Bay, 9:00 PM 7/9
12	10:45 AM 7/6/97	9:00 PM 7/7/97	<u>Extension</u> for 48 hours, 9:00 PM 7/7 to 9:00 PM 7/9 - Halibut Bay Section
		12:00 Noon 7/8/97	<u>Opening</u> for 33 hours, 12:00 Noon 7/8 to 9:00 PM 7/9 - Alitak Bay District
		12:00 Noon 7/7/97	<u>Closed water adjustments</u> Reduced in: Saltery Cove, until 9:00 PM 7/9
13	2:00 PM 7/8/97	5:00 PM 7/8/97	<u>Closure</u> at 5:00 PM 7/8 - Seaward Zones of Northwest Afognak, Shuyak Island, Big River, Outer Kukak Bay and Dakavak Bay Sections
14	1:30 PM 7/11/97	12:00 Noon 7/14/97	<u>Opening</u> for 81 hours, 12:00 Noon 7/14 to 9:00 PM 7/17 - "Shoreward Zones" of Northwest Afognak and Shuyak Island Sections - Southwest Afognak, Northeast Afognak, Southeast Afognak, Duck Bay and Raspberry Strait Sections - Northwest Kodiak District, except Kizhuyak and Zachar Bay Sections - Halibut Bay and Outer Ayakulik Sections - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District

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E.O.#	Issued	Effective	Action Taken
14 (Cont.)			<p><u>Opening</u> for 57 hours, 12:00 Noon 7/14 to 9:00 PM 7/16</p> <ul style="list-style-type: none"> - Inner Kukak Bay, Katmai, and Alinchak Sections - "Shoreward Zones" of Big River, Hallo Bay, Outer Kukak Bay, and Dakavak Bay Sections
15	2:00 PM 7/18/97	12:00 Noon 7/21/97	<p><u>Opening</u> for 81 hours, 12:00 Noon 7/21 to 9:00 PM 7/24</p> <ul style="list-style-type: none"> - "Shoreward Zones" of Northwest Afognak and Shuyak Island Sections - Southwest Afognak, Northeast Afognak, Southeast Afognak, Duck Bay, Izhut Bay, and Raspberry Strait Sections - Northwest Kodiak District, except Zachar Bay Section - Halibut Bay Section - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District <p><u>Opening</u> for 57 hours, 12:00 Noon 7/21 to 9:00 PM 7/23</p> <ul style="list-style-type: none"> - Inner Kukak Bay, Katmai, and Alinchak Sections - "Shoreward Zones" of Big River, Hallo Bay, Outer Kukak Bay, and Dakavak Bay Sections <p><u>Opening</u> for 9 hours, 12:00 Noon 7/21 to 9:00 PM 7/21</p> <ul style="list-style-type: none"> - Kitoi Bay Section <p><u>Closed water adjustments</u> Reduced in: Kitoi Bay, until 9:00 PM 7/21</p>
16	2:45 PM 7/25/97	12:00 Noon 7/29/97	<p><u>Opening</u> for 57 hours, 12:00 Noon 7/29 to 9:00 PM 7/31</p> <ul style="list-style-type: none"> - Afognak District, including Kitoi Bay Section - Northwest Kodiak District - Halibut Bay Section - Alitak Bay District - Eastside Kodiak District - Northeast Kodiak District - Mainland District, except for Big River and Hallo Bay Sections <p><u>Opening</u> until further notice, 12:00 Noon 7/29</p> <ul style="list-style-type: none"> - Spiridon Lake Terminal Harvest Area <p><u>Closed water adjustments</u> Reduced in: Kitoi Bay, until 9:00 PM 7/31</p>
17	3:30 PM 7/30/97	12:00 Noon 7/31/97	<p><u>Opening</u> for 57 hours, 12:00 Noon 7/31 to 9:00 PM 8/2</p> <ul style="list-style-type: none"> - Big River and Hallo Bay Sections

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E.O.#	Issued	Effective	Action Taken
17 (Cont.)		9:00 PM 7/31/97	<p><u>Extension</u> for 48 hours, 9:00 PM 7/31 to 9:00 PM 8/2</p> <ul style="list-style-type: none"> - Afognak District, except Kitoi Bay, Izhut Bay, and Duck Bay Sections - Northwest Kodiak District - Eastside Kodiak District - Northeast Kodiak District - Mainland District, except for Big River and Hallo Bay Sections <p><u>Extension</u> until further notice, 9:00 PM 7/31</p> <ul style="list-style-type: none"> - Kitoi Bay, Izhut Bay, and Duck Bay Sections <p><u>Closed water adjustments</u></p> <p>Reduced in: Kitoi Bay, until further notice</p>
18	4:00 PM 8/1/97	9:00 PM 8/2/97	<p><u>Extension</u> for 48 hours, 9:00 PM 8/2 to 9:00 PM 8/4</p> <ul style="list-style-type: none"> - Afognak District, except Kitoi Bay, Izhut Bay, and Duck Bay Sections - Northwest Kodiak District - Eastside Kodiak District - Northeast Kodiak District - Mainland District
		12:00 Noon 8/4/97	<p><u>Opening</u> for 57 hours, 12:00 Noon 8/4 to 9:00 PM 8/6</p> <ul style="list-style-type: none"> - Alitak Bay District
19	10:00 AM 8/3/97	9:00 PM 8/4/97	<p><u>Extension</u> for 48 hours, 9:00 PM 8/4 to 9:00 PM 8/6</p> <ul style="list-style-type: none"> - Afognak District, except Kitoi, Izhut, and Duck Bay Sections - Northwest Kodiak District - Eastside Kodiak District - Northeast Kodiak District - Mainland District
20	4:15 PM 8/5/97	9:00 PM 8/6/97	<p><u>Extension</u> for 48 hours, 9:00 PM 8/6 to 9:00 PM 8/8</p> <ul style="list-style-type: none"> - Afognak District, except Kitoi, Izhut, and Duck Bay Sections - Northwest Kodiak District - Alitak Bay District - Eastside Kodiak District, except that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Northeast Kodiak District - Mainland District
21	4:15 PM 8/7/97	9:00 PM 8/8/97	<p><u>Extension</u> for 24 hours, 9:00 PM 8/8 to 9:00 PM 8/9</p> <ul style="list-style-type: none"> - Alitak Bay District

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E.O.#	Issued	Effective	Action Taken
21 (Cont.)			<p><u>Extension</u> for 96 hours, 9:00 PM 8/8 to 9:00 PM 8/12</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections <p><u>Closure</u> at 9:00 PM 8/8</p> <ul style="list-style-type: none"> - Kitoi Bay, Izhut Bay, and Duck Bay Sections <p><u>Closed water adjustments</u></p> <p>Increased in: Kitoi Bay, at 9:00 PM 8/8</p>
22	10:30 AM 8/10/97	12:00 Noon 8/12/97	<p><u>Opening</u> for 57 hours, 12:00 Noon 8/12 to 9:00 PM 8/14</p> <ul style="list-style-type: none"> - Humpy-Deadman Section - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point
		9:00 PM 8/12/97	<p><u>Extension</u> for 48 hours, 9:00 PM 8/12 to 9:00 PM 8/14</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
23	4:15 PM 8/12/97	12:00 Noon 8/13/97	<p><u>Opening</u> for 57 hours, 12:00 Noon 8/13 to 9:00 PM 8/15</p> <ul style="list-style-type: none"> - Duck Bay and Izhut Bay Sections
		9:00 PM 8/14/97	<p><u>Extension</u> for 24 hours, 9:00 PM 8/14 to 9:00 PM 8/15</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
24	4:00 PM 8/13/97	9:00 PM 8/14/97	<p><u>Extension</u> for 45 hours, 9:00 PM 8/14 to 6:00 PM 8/16</p> <ul style="list-style-type: none"> - Humpy-Deadman Section
		12:00 Noon 8/15/97	<p><u>Opening</u> for 30 hours, 12:00 Noon 8/15 to 6:00 PM 8/16</p> <ul style="list-style-type: none"> - Cape Alitak and Moser-Olga Bay Sections
		9:00 PM 8/15/97	<p><u>Extension</u> for 21 hours, 9:00 PM 8/15 to 6:00 PM 8/16</p> <ul style="list-style-type: none"> - Southwest Afognak, Northwest Afognak, Duck Bay, and Izhut Bay Sections - Northwest Kodiak District

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E.O.#	Issued	Effective	Action Taken
24 (Cont.)			<ul style="list-style-type: none"> - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
25	4:00 PM 8/15/97	6:00 PM 8/16/97	<p><u>Extension</u> for 72 hours, 6:00 PM 8/16 to 6:00 PM 8/19</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
26	3:45 PM 8/18/97	12:00 Noon 8/19/97	<p><u>Opening</u> for 78 hours, 12:00 Noon 8/19 to 6:00 PM 8/22</p> <ul style="list-style-type: none"> - Duck Bay and Izhut Bay Sections - Humpy-Deadman Section, except that portion in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Northeast Kodiak District
		6:00 PM 8/19/97	<p><u>Extension</u> for 120 hours, 6:00 PM 8/19 to 6:00 PM 8/24</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
27	3:45 PM 8/21/97	12:00 Noon 8/22/97	<p><u>Opening</u> until further notice, 12:00 Noon 8/22</p> <ul style="list-style-type: none"> - Kitoi Bay Section east of a line between ADF&G regulatory markers at the "Jaws"
		6:00 PM 8/22/97	<p><u>Extension</u> for 72 hours, 6:00 PM 8/22 to 6:00 PM 8/25</p> <ul style="list-style-type: none"> - Duck Bay and Izhut Bay Sections - Humpy-Deadman Section, except that portion in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Northeast Kodiak District
		12:00 Noon 8/23/97	<p><u>Opening</u> for 54 hours, 12:00 Noon 8/23 to 6:00 PM 8/25</p> <ul style="list-style-type: none"> - Cape Alitak and Moser-Olga Bay Sections
		6:00 PM 8/24/97	<p><u>Extension</u> for 24 hours, 6:00 PM 8/24 to 6:00 PM 8/25</p> <ul style="list-style-type: none"> - Southwest Afognak and Northwest Afognak Sections - Northwest Kodiak District

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E.O.#	Issued	Effective	Action Taken
27 (Cont.)			<ul style="list-style-type: none"> - Eastside Kodiak District, except Inner Ugak Bay Section and that portion of Sitkalidak Section in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
		12:00 Noon 8/22/97	<u>Closed water adjustments</u> Reduced in: Kitoi Bay, until further notice
28	8:30 AM 8/24/97	8:45 AM 8/24/97	<u>Closure</u> , 8:45 AM 8/24 - Kitoi Bay Section
		6:00 PM 8/25/97	<u>Extension</u> for 48 hours, 6:00 PM 8/25 to 6:00 PM 8/27 <ul style="list-style-type: none"> - Southwest Afognak, Duck Bay, and Izhut Bay Sections - Northwest Kodiak District - Alitak Bay District, except that portion of Humpy-Deadman Section in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Seven Rivers, Two-Headed, and Sitkalidak Sections, except that portion in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
		8:45 AM 8/24/97	<u>Closed water adjustments</u> Increased in: Kitoi Bay, at 8:45 AM 8/24
29	1:00 PM 8/26/97	6:00 PM 8/27/97	<u>Extension</u> for 48 hours, 6:00 PM 8/27 to 6:00 PM 8/29 <ul style="list-style-type: none"> - Duck Bay and Izhut Bay Sections - Alitak Bay District, except that portion of Humpy-Deadman Section in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Seven Rivers, Two-Headed, and Sitkalidak Sections, except that portion in Kiliuda Bay west of a line from Left Cape to Pillar Point - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
30	4:15 PM 8/27/97	9:55 AM 8/29/97	<u>Opening</u> for 8:05 hours, 9:55 AM 8/29 to 6:00 PM 8/29 - Outer Upper Station Section
		10:00 AM 8/29/97	<u>Opening</u> for 8 hours, 10:00 AM 8/29 to 6:00 PM 8/29 - Inner Upper Station Section
		12:00 Noon 8/29/97	<u>Opening</u> for 6 hours, 12:00 Noon 8/29 to 6:00 PM 8/29 - That portion of Kitoi Bay Section west of a line between ADF&G regulatory markers located at the "Jaws"

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E.O.#	Issued	Effective	Action Taken
30 (Cont.)		12:00 Noon 8/29/97	<u>Opening</u> for 30 hours, 12:00 Noon 8/29 to 6:00 PM 8/30 - Perenosa Bay Section
		12:00 Noon 8/29/97	<u>Opening</u> until further notice, 12:00 Noon 8/29 - Duck Bay, Izhut Bay, and that portion of Kitoi Bay Section east of a line between ADF&G regulatory markers located at the "Jaws"
		6:00 PM 8/29/97	<u>Extension</u> for 48 hours, 6:00 PM 8/29 to 6:00 PM 8/31 - Alitak Bay District, except that portion of Humpy-Deadman Section in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Seven Rivers and Two-Headed Sections - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
		12:00 Noon 8/29/97	<u>Closed water adjustments</u> Reduced in: Kitoi Bay Section until further notice, and Perenosa Bay until 6:00 PM 8/30
31	10:45 AM 8/30/97	6:00 PM 8/31/97	<u>Extension</u> for 72 hours, 6:00 PM 8/31 to 6:00 PM 9/3 - Alitak Bay District, except that portion of Humpy-Deadman Section in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Seven Rivers and Two-Headed Sections - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
		12:00 Noon 8/31/97	<u>Closed water adjustments</u> Reduced in: Izhut Bay Section in Ruth Bay, until further notice
32	1:30 PM 9/2/97	6:00 PM 9/3/97	<u>Extension</u> until further notice, 6:00 PM 9/3 - Alitak Bay District, except that portion of Humpy-Deadman Section in Portage and Sulua Bays east of a line from Cape Hepburn to Shag Bluff - Wide Bay, Cape Igvak, Alinchak, Katmai, and Dakavak Bay Sections
		12:00 Noon 9/4/97	<u>Opening</u> until further notice, 12:00 Noon 9/4 - Hallo Bay and Big River Sections
33	1:45 PM 9/5/97	12:00 PM 9/7/97	<u>Opening</u> until further notice, 12:00 Noon 9/7 - Outer Ayakulik Section - Outer Upper Station Section

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E.O.#	Issued	Effective	Action Taken
34	3:45 PM 9/8/97	12:00 PM 9/10/97	<p><u>Opening</u> for 54 hours, 12:00 Noon 9/10 to 6:00 PM 9/12</p> <ul style="list-style-type: none"> - Southeast Afognak, Shuyak Island, and Perenosa Bay - Sections Northeast Kodiak District <p><u>Closed water adjustments</u> Reduced in: Afognak Bay and Perenosa Bay until further notice</p>
35	10:00 AM 9/15/97	6:00 PM 9/16/97	<p><u>Closure</u> at 6:00 PM 9/16</p> <ul style="list-style-type: none"> - Spiridon Lake Terminal Harvest Area

Appendix C.1. Narrative account of the Cape Igvak sockeye salmon fishery in the Kodiak Management Area, 1997.

Introduction

Beginning in 1964 a purse seine fishery developed along the capes in the Cape Igvak Section of the Mainland District (Appendix A.6). 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. From 1974 through 1977 this area was managed for "day for day" equal fishing time with Chignik.

In 1978 a specific management plan for the Cape Igvak Section was adopted by the BOF. The Cape Igvak Salmon Management Plan (5 AAC 18.360) 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 stipulates that 80% of the sockeye harvest from the Cape Igvak Section during the June 5 to July 25 period will be considered Chignik bound, and allows the KMA fleet to harvest up to 15 % of the Chignik bound sockeye salmon harvest¹. The Cape Igvak Salmon Management Plan also stipulates strict allocative and biological requirements which must be met prior to any fisheries occurring in the Cape Igvak Section. 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% of the total Chignik sockeye salmon harvest (Appendix C.2.). Only 3 times (1983, 1987 and 1993) has the harvest met the 15% allocation level (Appendix C.3.).

There are two distinct runs of sockeye salmon to the Chignik Lakes System. First run sockeye, bound for Black Lake, predominate in June, and the second run, bound for Chignik Lake, predominate in July and early August. Because of difficulty in evaluating the strength of the second run the management plan states that commercial fishing will be restricted or disallowed in the Cape Igvak Section from June 26 to July 9.

1997 Cape Igvak Salmon Fishery

No commercial salmon fishing time was allowed in the Cape Igvak Section during the June 5 to July 25 timing of the Cape Igvak Salmon Management Plan, in order to comply with the biological and allocative requirements of the plan (assuring escapement goals and minimum harvest levels for Chignik fishers). Both the early Black Lake run and the late Chignik Lake run of sockeye salmon were weak.

Commercial salmon fishing was allowed in the Cape Igvak Section after July 29, targeting local Kodiak Area pink and chum salmon stocks. Eighteen (18) purse seiners participated, harvesting 4 chinook, 375 sockeye, 210,003 pink, 13,457 chum, and 603 coho salmon (Appendix C.4).

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

Appendix C.2. Harvest of sockeye salmon considered by regulation to be Chignik bound, in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries, from 1964 to 1997.

Year	Chignik		Cape Igvak ^a		Southeastern District Mainland ^a		Total
	Catch ^b	Percent	Catch ^b	Percent	Catch ^b	Percent	
1964 ^c	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	429,835

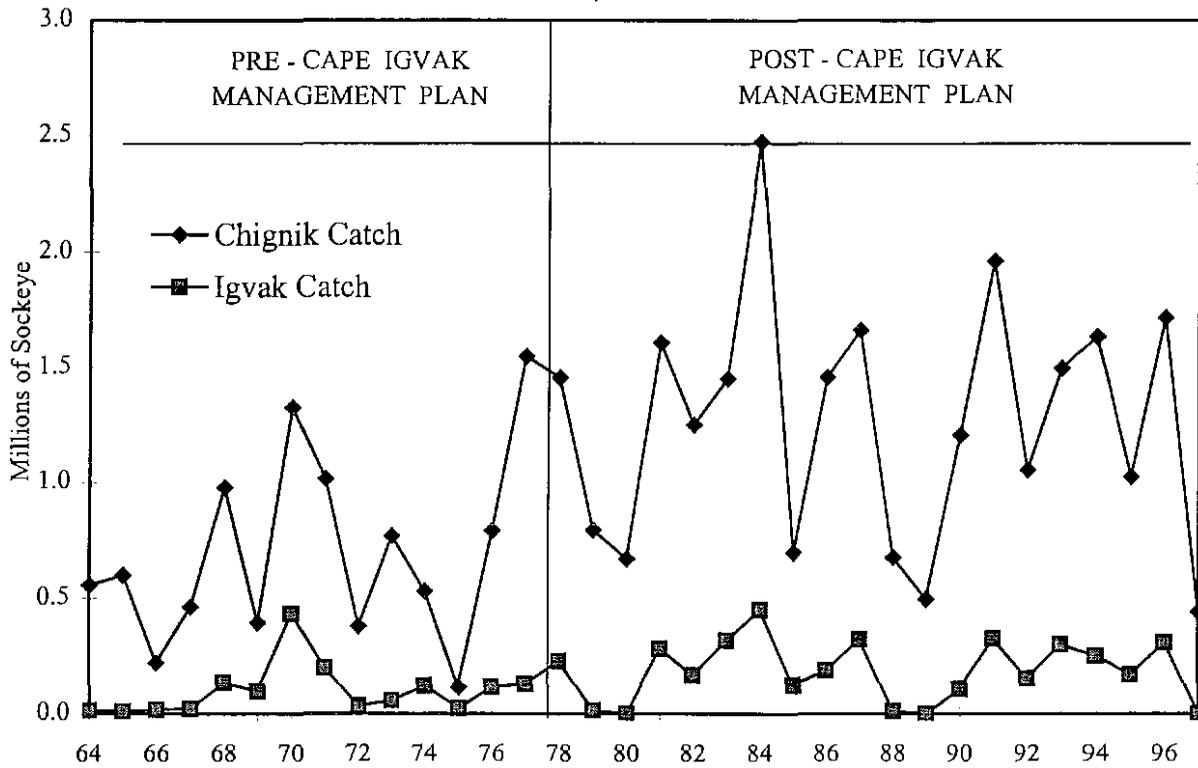
1964 to 1972 catch and percentage figures are totals for the entire season. Catch figures and percentages after 1972 are only through July 25.

1973 ^d	769,258	88.97	57,348	6.63	37,983	4.39	864,589
1974	530,278	73.61	122,071	16.95	68,029	9.44	720,378
1975	115,984	81.78	23,635	16.67	2,205	1.55	141,824
1976	792,024	82.96	117,926	12.35	44,730	4.69	954,680
1977	1,547,285	90.40	128,852	7.53	35,502	2.07	1,711,639
1978 ^{e,f}	1,454,389	85.38	227,014	13.33	22,064	1.30	1,703,467
1979 ^g	794,504	91.81	13,950	1.61	56,878	6.57	865,332
1980	670,001	91.31	32	0.00	63,724	8.68	733,757
1981	1,606,300	79.85	282,727	14.06	122,533	6.09	2,011,560
1982	1,250,768	84.46	167,401	11.30	62,767	4.24	1,480,936
1983	1,450,832	72.68	318,048	15.93	227,392	11.39	1,996,272
1984	2,474,405	73.93	449,372	13.43	423,068	12.64	3,346,845
1985 ^h	696,169	79.91	123,627	14.19	51,421	5.90	871,217
1986	1,456,729	82.64	188,017	10.67	118,006	6.69	1,762,752
1987	1,659,615	77.99	321,506	15.11	146,886	6.90	2,128,007
1988	675,487	95.67	11,218	1.59	19,320	2.74	706,025
1989	496,044	99.10	0	0.00	4,485	0.90	500,529
1990	1,205,575	83.61	107,706	7.47	128,599	8.92	1,441,880
1991 ⁱ	1,958,954	80.42	324,329	13.31	152,714	6.27	2,435,997
1992 ^j	1,054,309	81.07	152,358	11.72	93,845	7.22	1,300,512
1993	1,495,098	77.72	300,055	15.60	128,536	6.68	1,923,689
1994 ^k	1,632,435	80.61	250,230	12.36	142,350	7.03	2,025,015
1995	1,024,785	79.90	169,530	13.22	88,302	6.88	1,282,617
1996 ^l	1,710,249	79.70	308,327	14.37	127,201	5.93	2,145,777
1997	443,892	100.00	0	0.00	0	0.00	443,892

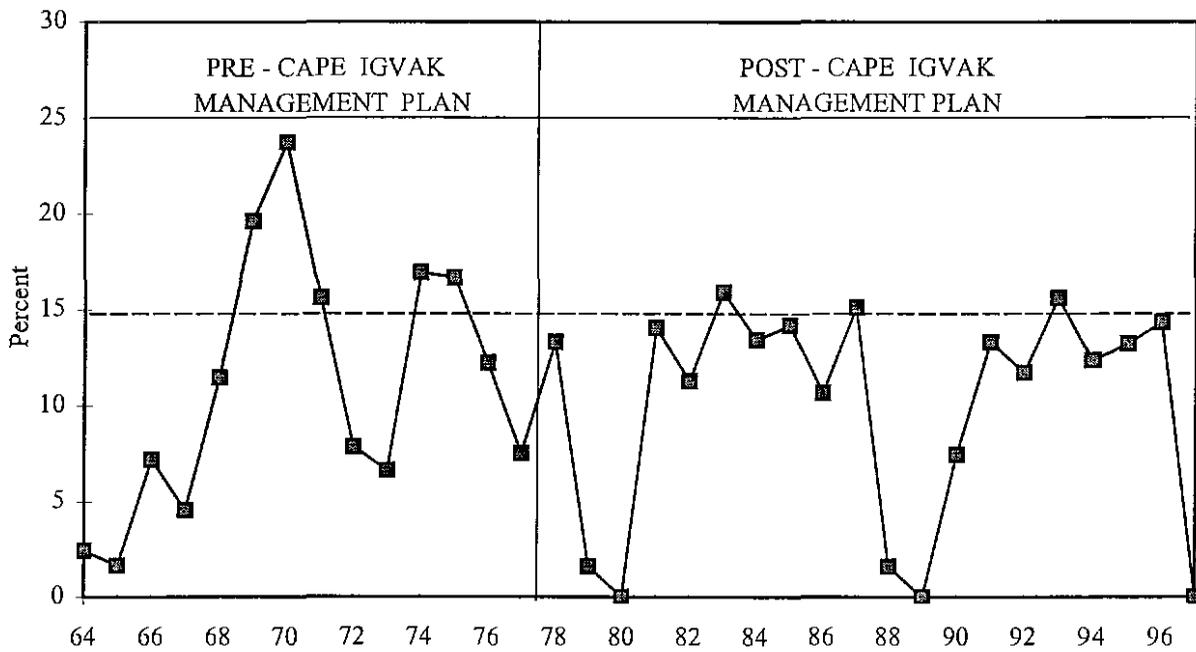
-Continued-

- ^a The Cape Igvak and Southeastern District Mainland figures represent 80% of the total sockeye catch for those areas, based on the premise that only 80% of the sockeye caught in those areas are destined for Chignik (excluding sockeye caught in the Northwest Stepovak Section from 1964 to 1991 and during July 1996, and in Orzinski Bay from 1992 to 1995).
- ^b Catch numbers were last modified from the ADF&G computerized historical fish ticket data base in 1997.
- ^c The data from 1964 to 1972 are based on total yearly catches. Prior to 1973 the Cape Igvak and Southeastern District Mainland fisheries were weekly fishing periods set by regulation, usually 5 days per week. Time modifications were implemented when poor escapements occurred at Chignik.
- ^d From 1974 through 1977 all three fisheries were managed on a day by day basis.
- ^e Beginning in 1978 the Cape Igvak Salmon Management Plan allocated up to 15% of the total catch of Chignik bound sockeye salmon to Kodiak Management Area fishers.
- ^f In 1978 seining prior to July 11 was disallowed in the Southeastern District Mainland. Set gillnet fisheries were allowed for 3 days per week through July 10, after which the fishery was based on local stock abundance.
- ^g From 1979 through 1984 fishing in the Southeastern District Mainland was allowed for 5 days per week prior to July 11, with an estimated ceiling of 60,000 Chignik bound sockeye. If the Chignik Management Area catch was 1,000,000 or more before July 11 then the ceiling was removed.
- ^h Beginning in 1985 the Southeastern District Mainland (excluding the Northwest Stepovak Section and Orzinski Bay) was allowed an allocation of 6.2% of the total harvest of Chignik bound sockeye salmon through July 25. After July 25 the Southeast District Mainland was managed based on local stock abundance. The allocation level changed to 6.0% beginning in 1988, with seining still not allowed prior to July 11.
- ⁱ Includes over escapement of 278,305 sockeye salmon, counted past the Chignik weir during a Chignik Area Seiners boycott (June 23 to July 4).
- ^j Beginning in 1992, after Board of Fisheries review of historical records, the allocation of Chignik bound sockeye to the Southeastern District Mainland fishery (excluding Orzinski Bay) was increased to 7.0%, through July 25.
- ^k Includes over escapement of 208,921 sockeye salmon, counted through the Chignik weir during a Chignik Area Seiners strike (June 2 to June 25).
- ^l In January 1996 the BOF increased the area managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1 the entire Northwest Stepovak Section will be managed by allocation based on Chignik sockeye salmon run strength. Beginning July 1 the Northwest Stepovak Section is managed entirely on local stocks. The BOF also decreased the percentage of Chignik bound sockeye salmon allocated to the Southeastern District Mainland fishery from 7.0 percent to 6.0 percent.
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Harvest Comparison of Chignik Bound Sockeye
June 5 to July 25, 1964 to 1997



Percent Harvest of Chignik Bound Sockeye in the Cape Igvak Fishery
June 5 to July 25, 1964 to 1997



Appendix C.3. Impact of the Cape Igvak Salmon Management Plan, 1964 - 1997.

Appendix C.4. Purse seine daily salmon harvest, by species, for the Cape Igvak Salmon Management Plan units, 1997.

Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First Run (5 June to 25 June): NO FISHING ALLOWED														
Second Run (9 July to 25 July): NO FISHING ALLOWED														
6-Aug	*	*	0	0	0	0	0	0	18,456	55,368	2,525	15,150	20,981	70,518
7-Aug	9	9	1	8	76	353	52	303	40,307	120,928	3,742	25,022	44,178	146,614
8-Aug	5	5	2	33	67	378	30	245	24,029	80,296	591	5,378	24,719	86,330
9-Aug	*	*	0	0	0	0	0	0	8,925	26,778	496	2,977	9,421	29,755
10-Aug	9	9	0	0	63	391	43	431	32,471	97,425	1,536	11,782	34,113	110,029
11-Aug	4	4	0	0	6	25	1	12	11,587	34,763	730	6,466	12,324	41,266
12-Aug	*	*	0	0	1	5	0	0	11,321	37,038	540	5,295	11,862	42,338
13-Aug	5	6	1	33	99	500	244	2,237	22,501	71,806	803	7,626	23,648	82,202
14-Aug	4	4	0	0	63	316	192	1,924	18,219	60,083	635	5,718	19,109	68,041
16-Aug	*	*	0	0	0	0	41	328	4,383	13,150	1,242	7,452	5,666	20,930
17-Aug	*	*	0	0	0	0	0	0	2,377	7,130	541	3,248	2,918	10,378
21-Aug	*	*	0	0	0	0	0	0	15,427	53,997	76	528	15,503	54,525
Cape Igvak Section														
TOTAL	18	48	4	74	375	1,968	603	5,480	210,003	658,762	13,457	96,642	224,442	762,926
Average Weight	-	-	-	18.5	-	5.2	-	9.1	-	3.1	-	7.2	-	-

Appendix D.1. Narrative account of the Alitak Bay District salmon fishery in the Kodiak Management Area, 1997.

Introduction

The salmon fisheries of the Alitak Bay area (Appendix A.3) are some of the oldest in the KMA. Sockeye salmon bound for Upper Station (Olga Lakes) were targeted as early as 1882, and the first cannery was built in this area in 1889 with others soon following. As competition increased, sockeye salmon stocks declined, and pink salmon made up a substantial portion of the harvest from this district after 1924. With statehood came greater control over the fishery, and the Alaska Department of Fish and Game was given the duty 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 1970s the Frazer system has had a self sustaining sockeye salmon stock.

The Alitak Bay District fishery is unique in the KMA, because set gillnet and seine gear can fish in this district, but are segregated in different sections. 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 1980s 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 (SAAC 18.361). This plan details the key species and targeted stocks that are managed for in each section of the district throughout the fishing season. 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 (ADF&G 1996).

1997 Alitak Bay District Fisheries

As scheduled in the 1997 Kodiak Area Commercial Salmon Fishery Harvest Strategy (Prokopowich et al. 1997) the first commercial salmon fishing period for this District began on June 9. Commercial salmon fisheries occurred in Alitak Bay District management units throughout the season, based on run strength of local sockeye, pink and coho stocks. The last Alitak Bay District delivery occurred on September 23. In total, 291 chinook, 687,997 sockeye, 955,358 pink, 85,775 chum, and 33,552 coho salmon were harvested (Appendix D.2.). Ninety one (91) purse seine permit holders fished in the Alitak Bay District fisheries, and harvested 202 chinook (69% of the total chinook harvest), 282,047 sockeye (41%), 815,685 pink (85%), 56,437 chum (66%), and 19,860 coho (59%) salmon (Appendix D.3.). Less than four beach seine permit holders fished in the Alitak Bay District, and harvested 1,002 pink salmon (<1%). Seventy eight (78) gill net permit holders fished in the Alitak Bay District, and harvested 89 chinook (31%), 403,588 sockeye (59%), 138,566 pink (15%), 29,273 chum (34%), and 13,689 coho (41%) salmon. Further, the gill net harvest can be apportioned between the Moser Bay fisheries (statistical area 257-41) and Olga Bay

-Continued-

fisheries (statistical area 257-30,-40, and -42). Seventy (70) Moser Bay gill net fishers harvested 36 chinook, 318,855 sockeye (47% of the total sockeye harvest; Appendix D.4.), 107,092 pink, 20,754 chum, and 11,768 coho salmon, while forty seven (47) gill net fishers harvested 53 chinook, 84,733 sockeye (12% of the total sockeye harvest), 31,474 pink, 8,519 chum, and 1,921 coho salmon in Olga Bay.

The daily salmon harvests, by species and by gear type and management unit, can be found in Appendices D.5. through D.7.

Appendix D.2. Salmon harvest, by gear type and by species, for Alitak Bay District management units, 1997.

Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
PURSE SEINE														
TOTAL	91	779	202	3,582	282,047	1,466,662	19,860	177,982	815,685	2,693,105	56,437	475,933	1,174,231	4,817,264
Average Weight	-			17.7		5.2		9.0		3.3		8.4		
BEACH SEINE														
TOTAL	*	*	0	0	0	0	0	0	1,002	3,508	0	0	1,002	3,508
Average Weight	-			-		-		-		3.5		-		
SET GILLNET														
TOTAL	78	2,303	89	1,715	403,588	2,109,443	13,689	126,641	138,566	531,381	29,273	239,504	585,205	3,008,684
Average Weight	-			19.3		5.2		9.3		3.8		8.2		
ADF&G TEST FISHERY														
TOTAL	*	29	0	0	2,362	12,735	3	9	105	394	65	523	2,535	13,661
Average Weight	-			-		5.4		3.0		3.8		8.0		
ALL GEAR														
TOTAL		3,111	291	5,297	687,997	3,588,840	33,552	304,632	955,358	3,228,388	85,775	715,960	1,762,973	7,843,117
Average Weight	-			18.2		5.2		9.1		3.4		8.3		

Appendix D.3. Commercial salmon harvest, by species, with percent harvest by gear type, in the Alitak Bay District of the Kodiak Management Area, 1954 - 1997.

YEAR	Chinook			Sockeye			Coho			Pink			Chum			TOTAL			
	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	
1954	3	33%	67%	44,448	94%	6%	1,118	93%	7%	490,038	47%	53%	55,788	19%	81%	591,395	48%	52%	
1955	38	74%	26%	56,058	89%	11%	410	68%	32%	1,656,363	15%	85%	100,031	17%	83%	1,812,900	18%	82%	
1956	10	10%	90%	62,673	77%	23%	904	25%	75%	335,669	30%	70%	55,967	11%	89%	455,223	34%	66%	
1957	7	14%	86%	15,365	88%	12%	378	31%	69%	410,620	12%	88%	49,661	27%	73%	476,031	16%	84%	
1958	11	0%	100%	30,542	79%	21%	488	33%	67%	770,851	29%	71%	81,255	8%	92%	883,147	29%	71%	
1959	11	18%	82%	24,888	59%	41%	378	30%	70%	544,592	23%	77%	70,589	8%	92%	640,458	23%	77%	
1960	29	17%	83%	68,472	77%	23%	2,129	77%	23%	1,561,476	25%	75%	102,432	13%	87%	1,734,538	26%	74%	
1961	23	4%	96%	145,781	67%	33%	1,470	49%	51%	1,589,027	14%	86%	60,600	18%	82%	1,796,901	19%	81%	
1962	5	20%	80%	124,496	75%	25%	1,792	79%	21%	1,886,769	23%	77%	54,115	26%	74%	2,067,177	26%	74%	
1963	30	7%	93%	54,992	60%	40%	1,202	31%	69%	1,522,856	14%	86%	42,836	10%	90%	1,621,916	15%	85%	
1964	29	10%	90%	50,167	72%	28%	2,324	76%	24%	1,408,731	46%	54%	34,460	13%	87%	1,495,711	46%	54%	
1965	16	6%	94%	68,876	68%	32%	688	16%	84%	1,129,185	11%	89%	20,604	17%	83%	1,219,369	14%	86%	
1966	2	50%	50%	70,526	91%	9%	585	78%	22%	429,204	40%	60%	33,153	18%	82%	533,470	46%	54%	
1967	6	0%	100%	14,227	82%	18%	50	0%	100%	84,918	66%	34%	17,377	55%	45%	116,578	66%	34%	
1968	16	44%	56%	40,662	86%	14%	3,701	79%	21%	1,046,221	21%	79%	29,450	35%	65%	1,120,050	24%	76%	
1969	27	37%	63%	98,722	54%	46%	7,240	7%	93%	3,768,917	8%	92%	45,134	15%	85%	3,920,040	10%	90%	
1970	8	50%	50%	81,528	76%	24%	4,540	73%	27%	949,488	27%	73%	93,306	15%	85%	1,128,870	30%	70%	
1971	33	30%	70%	124,480	55%	45%	2,261	66%	34%	1,066,180	10%	90%	191,437	7%	93%	1,384,391	14%	86%	
1972	15	40%	60%	22,127	70%	30%	1,270	51%	49%	187,154	17%	83%	93,236	6%	94%	303,802	18%	82%	
1973	4	50%	50%	10,338	62%	38%	125	70%	30%	49,932	35%	65%	24,408	19%	81%	84,807	34%	66%	
1974	19	16%	84%	66,605	52%	48%	1,284	49%	51%	363,389	9%	91%	22,220	9%	91%	453,517	16%	84%	
1975	0	0%	0%	16,515	72%	28%	1,627	3%	97%	235,720	11%	89%	2,855	40%	60%	256,717	15%	85%	
1976	18	28%	72%	96,668	71%	29%	3,518	53%	47%	1,804,003	26%	74%	66,183	14%	86%	1,970,390	28%	72%	
1977	20	40%	60%	78,805	69%	31%	1,343	57%	43%	961,673	23%	77%	70,978	12%	88%	1,112,819	26%	74%	
1978	694	58%	42%	218,165	59%	41%	2,788	52%	48%	4,191,756	12%	88%	72,166	16%	84%	4,485,569	14%	86%	
1979	108	24%	76%	317,906	50%	50%	15,007	54%	46%	1,664,249	7%	93%	22,454	32%	68%	2,019,724	14%	86%	
1980	34	21%	79%	208,200	83%	17%	12,972	34%	66%	2,033,236	12%	88%	67,471	12%	88%	2,321,913	18%	82%	
1981	45	13%	87%	346,073	74%	26%	17,011	55%	45%	2,073,629	13%	87%	61,513	37%	63%	2,498,271	22%	78%	
1982	43	30%	70%	476,862	86%	14%	29,378	40%	60%	519,880	27%	73%	101,543	22%	78%	1,127,706	52%	48%	
1983	159	12%	88%	460,087	59%	41%	28,953	45%	55%	1,318,526	7%	93%	107,786	21%	79%	1,915,511	21%	79%	
1984	290	11%	89%	382,729	67%	33%	25,299	51%	49%	433,806	25%	75%	84,924	24%	76%	927,048	43%	57%	
1985	199	21%	79%	703,186	63%	37%	43,914	48%	52%	1,057,912	14%	86%	84,760	33%	67%	1,889,971	34%	66%	
1986	134	17%	83%	1,247,976	58%	42%	30,548	44%	56%	728,205	17%	83%	75,643	16%	84%	2,082,506	42%	58%	
1987	105	11%	89%	515,410	63%	37%	17,959	53%	47%	916,875	9%	91%	59,723	37%	63%	1,510,072	29%	71%	
1988	624	11%	89%	1,123,474	58%	42%	30,001	38%	62%	385,735	35%	65%	93,391	35%	65%	1,633,225	51%	49%	
1989	*	Harvest data is not comparable due to commercial fishery restrictions in response to the M/V Exxon Valdez oil spill.																	
1990	807	17%	83%	1,435,461	52%	48%	18,176	65%	35%	144,927	13%	87%	50,304	36%	64%	1,649,675	48%	52%	
1991	821	10%	90%	2,062,718	58%	42%	24,601	52%	48%	2,373,516	5%	95%	83,003	24%	76%	4,544,659	30%	70%	
1992	1056	9%	91%	525,158	53%	47%	24,548	55%	45%	59,268	28%	72%	34,580	43%	57%	644,610	50%	50%	
1993	1828	10%	90%	998,751	53%	47%	19,271	40%	60%	3,465,473	6%	94%	53,636	27%	73%	4,538,959	17%	83%	
1994	1946	8%	92%	931,328	54%	46%	32,312	44%	56%	1,120,832	9%	91%	112,191	18%	82%	2,198,609	29%	71%	
1995	848	15%	85%	1,674,169	47%	53%	19,000	47%	53%	7,065,939	6%	94%	105,224	17%	83%	8,865,180	14%	86%	
1996	569	18%	82%	1,458,215	54%	46%	35,529	47%	53%	553,424	39%	61%	65,250	29%	71%	2,112,987	49%	51%	
1997	291	31%	69%	685,635	59%	41%	33,549	41%	59%	955,253	15%	85%	85,710	34%	66%	1,760,438	33%	67%	

Appendix D. 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, 1982-1997.

Year	Gillnet									Seine			All Gear District Harvest ^a
	Moser Bay			Olga Bay			Total District			Total District			
	Permits	Harvest ^a	% ^b	Permits	Harvest ^a	% ^b	Permits	Harvest ^a	% ^b	Permits	Harvest ^a	% ^b	
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	46%	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	38%	35	140,200	14%	76	524,700	53%	115	474,100	47%	998,800
1994	61	364,900	39%	43	135,900	15%	74	500,800	54%	111	429,900	46%	930,700
1995	61	622,800	37%	30	160,200	10%	75	783,000	47%	149	887,000	53%	1,670,000
1996	71	677,400	46%	23	104,800	7%	81	782,200	54%	138	676,000	46%	1,458,200
1997	70	318,900	47%	47	84,700	12%	78	403,600	59%	91	282,000	41%	685,600
Average ^c													
1982-97	66	369,100	38%	47	183,480	19%	78	552,580	57%	130	425,327	43%	977,907

^a Number of sockeye salmon.

^b Percent of the total (all gear) Alitak Bay District sockeye salmon harvest by gear type and/or harvest location.

^c 1989 data are not used in averages. There were extensive fishery closures and unusual harvest patterns due to the *M/V Exxon Valdez* spill.

Appendix D.5. Purse seine daily salmon harvest, by species, for the Alitak Bay District, 1997.

Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
25710	29-Jun	*	*	0	0	69	330	0	0	22	72	16	146	107
	21-Jul	*	*	0	0	726	3,706	0	0	738	2,775	668	5,346	2,132
	23-Jul	*	*	0	0	89	491	2	26	228	799	59	479	378
	TOTAL	4	4	0	0	884	4,527	2	26	988	3,646	743	5,971	2,617
	AVG.WT.				0.0		5.1		13.0		3.7		8.0	
25720	19-Jun	10	10	10	233	9,492	51,425	0	0	39	130	241	2,046	9,782
	20-Jun	7	7	2	34	3,381	18,091	0	0	24	92	92	766	3,499
	21-Jun	5	5	5	76	3,957	19,508	0	0	105	358	121	1,023	4,188
	23-Jun	*	*	1	15	460	2,875	0	0	0	0	31	253	492
	24-Jun	24	24	15	312	6,377	33,300	0	0	521	1,587	712	6,334	7,625
	25-Jun	18	18	36	671	3,500	18,763	0	0	294	860	298	2,549	4,128
	26-Jun	15	15	21	435	3,039	16,117	0	0	503	1,530	356	3,181	3,919
	27-Jun	15	15	15	186	2,857	14,951	0	0	682	2,062	163	1,424	3,717
	28-Jun	11	11	13	214	2,353	12,561	1	5	836	2,523	146	1,379	3,349
	29-Jun	24	25	24	334	4,761	25,555	1	6	1,918	5,695	573	5,138	7,277
	8-Jul	*	*	0	0	310	1,706	0	0	217	868	12	97	539
	9-Jul	10	10	5	101	2,100	11,241	33	227	2,595	10,230	246	2,016	4,979
	14-Jul	6	6	4	79	2,545	13,509	21	115	3,614	14,190	187	1,540	6,371
	15-Jul	*	*	1	5	330	1,583	3	21	407	1,631	30	285	771
	17-Jul	23	23	2	18	5,673	29,054	148	1,031	9,080	31,972	2,514	19,873	17,417
	21-Jul	10	10	3	44	4,337	23,081	19	122	8,071	28,546	541	4,222	12,971
	22-Jul	7	7	1	25	2,716	13,867	13	95	4,827	16,329	257	1,932	7,814
	23-Jul	*	*	0	0	628	3,357	8	61	1,117	4,067	49	411	1,802
	24-Jul	*	*	0	0	132	724	1	10	284	996	100	804	517
	29-Jul	*	*	0	0	483	2,514	4	33	1,112	3,910	10	93	1,609
	30-Jul	5	5	0	0	2,516	11,830	14	123	3,890	14,193	140	1,166	6,560
	31-Jul	14	16	1	16	6,518	32,394	16	129	11,518	44,347	266	2,118	18,319
	7-Aug	8	8	1	17	5,053	26,081	81	655	9,858	34,442	471	3,808	15,464
	8-Aug	10	10	7	128	6,405	32,778	119	926	17,766	66,101	830	7,512	25,127
	9-Aug	11	11	0	0	831	4,055	12	99	4,705	18,249	4,282	43,461	9,830
	15-Aug	14	14	0	0	2,748	16,202	224	1,801	28,196	87,520	1,471	12,807	32,639
	16-Aug	5	5	0	0	3,363	18,085	214	1,664	16,699	51,199	882	6,269	21,158
	25-Aug	4	4	0	0	757	3,947	195	1,837	2,175	6,530	67	579	3,194
	26-Aug	8	8	3	69	7,907	41,169	914	8,311	10,070	30,214	377	3,185	19,271
	27-Aug	10	11	0	0	7,289	37,698	560	5,491	13,723	41,391	438	3,642	22,010

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds		
99	28-Aug	11	13	0	0	10,092	52,255	810	7,188	9,727	36,926	670	5,557	21,299	
	29-Aug	13	13	2	61	9,112	51,148	651	6,044	10,610	40,438	306	2,945	20,681	
	30-Aug	13	13	0	0	10,386	57,289	851	7,880	20,491	75,937	512	4,881	32,240	
	31-Aug	19	19	1	6	11,468	59,606	1,126	8,887	20,211	72,714	758	6,019	33,564	
	1-Sep	11	11	0	0	4,815	24,579	535	4,816	1,641	5,141	166	1,328	7,157	
	2-Sep	23	24	2	40	15,226	77,541	1,638	14,819	5,905	19,183	642	4,998	23,413	
	3-Sep	12	12	1	18	3,362	17,358	871	8,059	195	586	232	2,682	4,661	
	4-Sep	18	18	1	55	3,475	17,505	1,188	10,851	135	407	310	2,758	5,109	
	5-Sep	11	11	0	0	4,312	23,072	1,610	15,700	0	0	601	4,661	6,523	
	6-Sep	7	7	0	0	2,403	12,411	487	4,540	0	0	171	1,494	3,061	
	7-Sep	4	4	0	0	2,981	15,879	467	4,520	0	0	414	3,793	3,862	
	8-Sep	9	9	0	0	4,828	25,993	892	8,443	0	0	581	5,297	6,301	
	9-Sep	5	5	0	0	3,274	15,758	346	2,961	0	0	264	1,878	3,884	
	10-Sep	6	6	0	0	6,745	32,682	510	4,514	0	0	350	2,903	7,605	
	11-Sep	*	*	0	0	387	1,846	137	1,274	0	0	29	190	553	
	12-Sep	4	5	0	0	1,146	5,345	318	3,004	0	0	48	432	1,512	
	13-Sep	4	4	0	0	1,458	6,835	313	2,994	0	0	120	808	1,891	
	14-Sep	6	6	0	0	1,737	8,208	229	2,169	0	0	130	1,123	2,096	
	15-Sep	4	4	1	14	1,086	4,812	226	2,031	0	0	115	736	1,428	
	22-Sep	*	*	0	0	373	1,780	33	349	0	0	27	203	433	
	23-Sep	*	*	0	0	1,827	7,306	207	1,659	0	0	145	870	2,179	
	TOTAL		83	476	178	3,206	203,311	1,057,229	16,046	145,464	223,761	773,094	22,494	195,469	465,790
	AVG.WT.					18.0		5.2		9.1		3.5		8.7	
25740	12-Sep	*	*	0	0	62	252	44	425	0	0	75	737	181	
TOTAL		*	*	0	0	62	252	44	425	0	0	75	737	181	
AVG.WT.					0.0		4.1		9.7		0.0		9.8		
25741	8-Sep	*	*	0	0	128	600	50	440	0	0	60	390	238	
	19-Sep	*	*	0	0	17	65	1	10	0	0	0	0	18	
	20-Sep	*	*	0	0	566	2,797	70	527	0	0	103	604	739	
TOTAL		*	*	0	0	711	3,462	121	977	0	0	163	994	995	
AVG.WT.					0.0		4.9		8.1		0.0		6.1		

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds		
67	25750	21-Jun	*	*	0	0	479	2,391	0	0	6	20	38	357	523
	26-Jun	*	*	0	0	223	1,144	0	0	3	5	12	94	238	
	27-Jun	*	*	1	12	82	412	0	0	21	65	7	70	111	
	29-Jun	*	*	0	0	174	959	0	0	12	50	47	353	233	
	8-Jul	*	*	0	0	143	821	0	0	144	503	13	120	300	
	9-Jul	*	*	0	0	51	263	0	0	134	467	8	77	193	
	15-Jul	*	*	1	12	1,059	5,379	3	30	1,385	4,749	52	497	2,500	
	17-Jul	*	*	0	0	112	578	0	0	178	713	3	27	293	
	22-Jul	4	4	0	0	1,410	7,335	1	4	2,053	7,579	95	763	3,559	
	23-Jul	6	6	0	0	1,162	6,447	1	8	2,629	9,543	119	1,072	3,911	
	24-Jul	*	*	0	0	238	1,294	2	12	476	1,666	54	434	770	
	7-Aug	*	*	0	0	571	2,622	1	4	4,018	14,510	586	4,910	5,176	
	8-Aug	*	*	0	0	1,739	8,974	8	71	12,514	40,973	1,181	8,686	15,442	
	12-Aug	7	7	0	0	996	5,059	29	271	13,307	43,537	244	2,045	14,576	
	13-Aug	8	8	0	0	2,029	10,136	43	323	9,221	29,676	809	6,003	12,102	
	14-Aug	11	12	1	22	2,464	12,356	64	511	32,999	111,113	1,372	11,285	36,900	
	15-Aug	*	*	0	0	72	321	6	49	2,449	8,381	42	420	2,569	
	16-Aug	9	9	0	0	1,259	6,387	46	287	12,246	39,462	558	4,271	14,109	
	19-Aug	*	*	0	0	327	1,898	18	197	3,468	10,405	177	1,422	3,990	
	20-Aug	8	8	0	0	1,587	8,254	40	354	14,138	45,940	323	2,661	16,088	
	21-Aug	8	8	0	0	2,399	12,495	153	1,289	18,517	55,506	658	5,308	21,727	
	22-Aug	4	4	0	0	1,952	10,155	201	1,708	16,430	49,294	593	4,769	19,176	
	23-Aug	13	13	0	0	4,241	22,081	444	3,910	21,191	63,211	1,757	14,164	27,633	
	24-Aug	8	8	1	10	854	4,462	169	1,527	7,934	23,199	845	6,773	9,803	
	25-Aug	*	*	0	0	315	1,639	44	404	681	2,045	10	91	1,050	
	26-Aug	*	*	0	0	190	991	74	593	1,261	3,784	183	1,471	1,708	
	3-Sep	*	*	0	0	55	290	50	460	0	0	30	435	135	
5-Sep	*	*	0	0	236	946	60	476	0	0	81	484	377		
	TOTAL	35	111	4	56	26,419	136,089	1,457	12,488	177,415	566,396	9,897	79,062	215,192	
	AVG.WT.				14.0		5.2		8.6		3.2		8.0		
25760	21-Jun	*	*	0	0	1,605	7,615	0	0	35	110	15	123	1,655	
	24-Jun	*	*	3	58	220	1,132	0	0	71	212	29	206	323	
	25-Jun	*	*	0	0	29	145	0	0	0	0	3	35	32	
	8-Jul	*	*	0	0	1,346	7,404	0	0	1,679	6,719	0	0	3,025	
	9-Jul	5	5	3	67	1,787	9,846	1	13	1,095	4,283	70	581	2,956	

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds		
69	14-Jul	8	8	5	46	4,306	22,783	19	138	6,673	26,297	227	1,843	11,230	
	17-Jul	*	*	0	0	160	814	0	0	276	969	14	102	450	
	21-Jul	4	4	0	0	1,896	9,609	5	30	2,754	9,635	70	586	4,725	
	22-Jul	*	*	1	18	1,455	7,253	0	0	1,972	6,282	45	405	3,473	
	23-Jul	4	4	0	0	514	2,681	0	0	1,280	4,903	54	433	1,848	
	24-Jul	9	9	0	0	1,440	7,248	12	79	6,591	22,059	161	1,411	8,204	
	7-Aug	*	*	0	0	361	1,808	2	16	2,875	10,064	107	863	3,345	
	8-Aug	7	8	0	0	1,288	6,537	16	113	25,720	90,035	1,582	13,789	28,606	
	9-Aug	*	*	0	0	207	1,133	15	121	3,132	10,958	374	3,002	3,728	
	12-Aug	10	10	0	0	1,559	8,242	61	492	46,578	150,394	4,166	34,796	52,364	
	13-Aug	7	7	1	18	1,382	7,339	47	400	24,667	84,522	3,134	29,216	29,231	
	14-Aug	7	7	0	0	462	2,349	29	218	23,594	79,411	2,906	23,138	26,991	
	15-Aug	*	*	0	0	200	1,108	10	82	4,665	14,560	2,684	23,756	7,559	
	16-Aug	11	11	4	61	3,077	16,626	90	699	29,170	89,740	1,577	12,251	33,918	
	19-Aug	12	12	0	0	2,425	12,980	62	523	40,757	122,315	701	5,649	43,945	
	20-Aug	7	7	0	0	1,784	9,314	45	431	27,425	82,235	222	1,762	29,476	
	21-Aug	5	5	0	0	1,331	6,929	114	955	9,767	30,005	229	1,866	11,441	
	22-Aug	*	*	0	0	46	229	6	47	1,025	3,077	3	25	1,080	
	23-Aug	*	*	0	0	738	3,767	125	1,173	9,654	33,244	242	1,856	10,759	
	24-Aug	*	*	0	0	227	1,184	31	251	3,066	9,199	70	566	3,394	
	25-Aug	*	*	0	0	621	3,708	138	1,271	13,342	43,848	131	1,040	14,232	
	4-Sep	*	*	0	0	131	626	45	360	0	0	58	435	234	
	TOTAL		34	121	17	268	30,597	160,409	873	7,412	287,863	935,076	18,874	159,735	338,224
	AVG.WT.					15.8		5.2		8.5		3.3		8.5	
	25770	22-Jun	4	4	1	24	1,517	7,635	0	0	74	212	26	224	1,618
	25-Jun	*	*	0	0	60	332	0	0	3	9	4	45	67	
	26-Jun	*	*	0	0	170	765	0	0	0	0	13	124	183	
	9-Jul	*	*	0	0	600	3,597	5	26	826	2,986	55	429	1,486	
	14-Jul	*	*	0	0	569	3,344	15	81	729	2,789	16	131	1,329	
	23-Jul	*	*	1	7	785	4,117	11	76	5,531	17,340	84	674	6,412	
	24-Jul	*	*	0	0	175	960	3	23	1,950	7,452	30	246	2,158	
	7-Aug	5	7	0	0	2,421	12,538	55	478	17,698	62,284	420	3,411	20,594	
	8-Aug	7	7	0	0	1,204	6,279	54	416	13,894	48,528	1,644	12,731	16,796	
	9-Aug	*	*	0	0	232	1,271	8	90	3,489	12,214	305	2,442	4,034	

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Stat. Area	Date	Permits	LnDgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
	12-Aug	*	*	0	0	451	2,257	9	67	1,355	4,745	41	330	1,856
	14-Aug	5	6	0	0	4,083	20,482	149	997	31,090	106,247	523	4,744	35,845
	15-Aug	*	*	0	0	654	3,919	46	324	6,484	21,622	87	804	7,271
	16-Aug	*	*	0	0	53	270	5	30	537	1,720	81	648	676
	19-Aug	*	*	0	0	261	1,387	5	48	5,525	16,575	33	268	5,824
	20-Aug	*	*	0	0	415	2,301	23	198	2,649	7,951	269	2,167	3,356
	22-Aug	*	*	0	0	990	5,151	71	705	2,472	7,418	54	436	3,587
	24-Aug	6	6	1	21	1,322	6,886	252	2,110	8,961	26,889	262	2,111	10,798
	25-Aug	5	5	0	0	403	2,137	71	637	15,148	45,451	112	914	15,734
	26-Aug	4	4	0	0	1,983	10,322	389	3,513	3,697	11,096	103	825	6,172
	27-Aug	*	*	0	0	858	4,464	56	570	2,816	8,448	6	54	3,736
	29-Aug	*	*	0	0	857	4,280	90	801	730	2,917	23	207	1,700
	TOTAL	30	63	3	52	20,063	104,694	1,317	11,190	125,658	414,893	4,191	33,965	151,232
	AVG.WT.				17.3		5.2		8.5		3.3		8.1	
TOTALS		91	779	202	3,582	282,047	1,466,662	19,860	177,982	815,685	2,693,105	56,437	475,933	1,174,231
					17.73		5.2		8.96		3.3		8.43	

* = Confidential information.

Appendix D.6. Beach seine daily salmon harvest, by species, for the Alitak Bay District, 1997.

Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
25720	2-Sep	*	*	0	0	0	0	0	0	1,002	3,508	0	0	1,002
	TOTAL	*	*	0	0	0	0	0	0	1,002	3,508	0	0	1,002
	AVG.WT.				0.0		0.0		0.0		3.5		0.0	
TOTALS				*	*	0	0	0	0	1,002	3,508	0	0	1,002
							0.0		0.0		3.5		0.0	

* = Confidential information.

Appendix D.7. Gillnet daily salmon harvest, by species, for the Alitak Bay District, 1997.

Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
25730	29-Aug	25	25	0	0	4,558	21,940	99	900	639	1,945	14	34	5,310
	TOTAL	25	25	0	0	4,558	21,940	99	900	639	1,945	14	34	5,310
	AVG.WT.				0.0		4.8		9.1		3.0		2.4	
25740	9-Jun	13	15	10	217	3,945	20,781	0	0	0	0	9	83	3,964
	10-Jun	14	20	14	317	2,564	13,822	0	0	0	0	15	110	2,593
	21-Jun	14	23	3	60	5,646	29,791	0	0	0	0	80	739	5,729
	22-Jun	15	18	6	130	6,396	34,079	0	0	6	24	87	805	6,495
	23-Jun	13	19	1	17	2,845	15,281	0	0	4	8	77	716	2,927
	24-Jun	10	10	0	0	1,299	6,875	0	0	2	6	51	424	1,352
	25-Jun	9	9	0	0	523	2,730	0	0	0	0	55	500	578
	26-Jun	10	10	0	0	371	1,834	0	0	0	0	42	354	413
	27-Jun	11	11	0	0	294	1,372	0	0	6	22	32	264	332
	28-Jun	12	12	0	0	167	844	0	0	6	19	52	541	225
	29-Jun	10	10	0	0	95	446	0	0	9	33	46	437	150
	8-Jul	12	13	0	0	3,472	18,049	0	0	718	2,856	276	2,298	4,466
	9-Jul	13	13	1	9	2,296	11,686	1	7	1,203	4,935	471	4,252	3,972
	14-Jul	13	13	0	0	3,922	20,622	1	10	1,692	6,541	238	2,137	5,853
	15-Jul	13	13	0	0	2,076	10,718	0	0	1,229	4,827	206	1,859	3,511
	16-Jul	12	13	0	0	1,264	6,299	1	8	3,075	11,160	289	2,603	4,629
	17-Jul	12	12	0	0	374	1,841	0	0	1,030	3,985	137	1,179	1,541
	21-Jul	12	12	0	0	2,082	10,916	2	18	2,327	8,988	110	960	4,521
	22-Jul	11	11	1	21	613	3,152	0	0	761	2,935	93	795	1,468
	23-Jul	10	10	0	0	303	1,575	0	0	477	1,877	35	313	815
	24-Jul	9	9	0	0	219	1,100	1	7	812	3,211	61	534	1,093
	30-Jul	*	*	0	0	505	2,830	0	0	507	2,020	11	105	1,023
	31-Jul	*	4	0	0	327	1,730	1	7	382	1,506	5	47	715
	4-Aug	13	16	0	0	3,063	16,971	1	6	1,876	6,548	29	283	4,969
	5-Aug	13	14	0	0	2,632	14,443	0	0	1,377	4,714	21	219	4,030
	6-Aug	10	17	0	0	4,024	21,234	6	46	2,155	8,467	87	835	6,272
	7-Aug	11	16	0	0	2,539	13,160	7	65	2,475	9,622	112	1,193	5,133
	8-Aug	11	12	0	0	885	4,137	6	36	1,449	5,432	82	839	2,422
	9-Aug	10	11	0	0	672	3,144	15	91	1,290	4,948	98	875	2,075
	15-Aug	11	11	0	0	2,753	14,820	85	729	1,682	6,661	56	553	4,576
	16-Aug	13	15	1	9	1,464	7,612	60	573	1,490	6,471	138	1,375	3,153
	23-Aug	11	11	0	0	2,681	14,177	134	1,282	712	2,740	363	3,298	3,890

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
	24-Aug	11	11	0	0	1,427	7,406	121	1,028	662	2,492	343	3,253	2,553
	25-Aug	4	4	0	0	316	1,560	44	371	179	710	135	1,194	674
	26-Aug	7	7	0	0	409	1,958	43	404	194	755	165	1,548	811
	27-Aug	6	6	0	0	219	1,132	50	513	158	603	223	2,129	650
	28-Aug	8	9	0	0	392	1,883	74	676	181	669	420	4,282	1,067
	29-Aug	5	5	0	0	297	1,504	38	368	123	447	92	915	550
	30-Aug	7	7	0	0	313	1,550	49	491	95	359	230	2,209	687
	31-Aug	7	7	0	0	209	1,014	88	860	138	514	375	3,380	810
	1-Sep	8	8	0	0	324	1,692	31	296	72	279	236	2,141	663
	2-Sep	6	6	0	0	359	1,671	52	496	43	165	179	1,812	633
	3-Sep	8	8	0	0	440	2,188	49	490	55	216	141	1,298	685
	4-Sep	8	8	0	0	243	1,199	68	652	5	14	176	1,945	492
	5-Sep	6	6	0	0	387	1,814	115	1,138	67	229	159	1,564	728
	6-Sep	4	4	0	0	60	293	77	691	0	0	233	2,027	370
	7-Sep	8	9	0	0	228	1,107	139	1,321	48	187	158	1,350	573
	8-Sep	4	4	0	0	154	739	119	1,155	0	0	163	1,482	436
	9-Sep	6	7	0	0	300	1,490	140	1,328	60	234	656	6,272	1,156
	10-Sep	4	4	0	0	41	212	24	222	2	8	207	1,882	274
	11-Sep	*	*	0	0	81	399	134	1,292	0	0	391	3,040	606
	13-Sep	*	*	0	0	88	409	8	62	0	0	51	367	147
	14-Sep	*	*	0	0	93	456	9	71	0	0	62	424	164
	15-Sep	*	*	0	0	181	870	22	191	0	0	112	952	315
	16-Sep	*	*	0	0	100	484	6	63	0	0	8	51	114
	TOTAL	26	535	37	780	68,972	361,101	1,821	17,064	30,834	118,437	8,379	77,042	110,043
	AVG.WT.				21.1		5.2		9.4		3.8		9.2	
25741	9-Jun	26	28	4	83	4,491	23,895	0	0	0	0	9	80	4,504
	10-Jun	26	28	2	30	9,219	48,300	0	0	0	0	21	164	9,242
	15-Jun	*	*	0	0	2,623	14,296	0	0	0	0	39	352	2,662
	21-Jun	*	*	0	0	308	1,705	0	0	3	10	7	55	318
	22-Jun	24	27	3	60	6,849	35,972	0	0	21	71	189	1,595	7,062
	23-Jun	30	39	3	63	10,530	54,993	1	7	33	119	158	1,271	10,725
	24-Jun	33	36	2	49	6,392	33,374	1	5	31	110	130	1,073	6,556
	25-Jun	34	42	2	46	5,340	28,253	2	13	48	179	196	1,617	5,588
	26-Jun	29	30	2	26	4,063	21,316	3	24	72	274	240	1,951	4,380
	27-Jun	27	31	3	40	5,412	28,172	2	13	243	881	255	1,964	5,915

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
	15-Jul	29	36	1	16	4,564	24,051	54	336	3,876	14,926	200	1,500	8,695
	16-Jul	31	37	0	0	4,247	22,190	41	308	4,542	16,603	275	2,124	9,105
	17-Jul	34	37	1	17	4,137	21,915	64	472	4,563	16,298	212	1,637	8,977
	21-Jul	16	16	0	0	1,600	8,742	19	137	1,263	4,955	52	414	2,934
	22-Jul	30	31	2	44	3,122	16,891	31	230	2,144	8,685	114	888	5,413
	23-Jul	31	40	1	33	5,011	27,076	33	238	4,824	18,407	175	1,338	10,044
	24-Jul	31	40	0	0	3,510	18,902	56	419	3,864	15,454	104	802	7,534
	29-Jul	15	15	0	0	5,086	26,938	20	156	2,722	10,621	97	782	7,925
	30-Jul	18	25	0	0	9,475	49,100	62	461	4,828	19,237	186	1,560	14,551
	31-Jul	18	24	0	0	7,569	39,308	35	260	4,673	19,090	171	1,306	12,448
	4-Aug	17	17	0	0	4,677	26,811	3	24	4,340	14,454	112	985	9,132
	5-Aug	16	19	0	0	5,781	33,553	4	36	4,414	15,309	84	736	10,283
	6-Aug	26	28	0	0	6,759	35,367	29	221	4,468	17,997	316	2,616	11,572
	7-Aug	34	44	0	0	10,211	53,381	63	465	9,108	35,533	403	3,397	19,785
	8-Aug	32	40	0	0	6,684	34,972	49	358	7,009	27,942	498	4,412	14,240
	9-Aug	29	33	1	25	6,410	33,529	112	848	7,246	29,087	487	4,199	14,256
	15-Aug	24	26	0	0	3,261	17,343	73	590	3,845	15,029	165	1,500	7,344
	16-Aug	30	35	1	43	5,124	27,448	159	1,255	4,957	19,125	266	2,112	10,507
	23-Aug	20	22	0	0	4,134	21,335	307	2,894	1,525	5,799	287	2,223	6,253
	24-Aug	27	33	0	0	11,153	57,725	663	5,863	3,064	11,921	626	5,085	15,506
	25-Aug	32	46	0	0	6,282	32,558	388	3,569	2,218	8,006	575	4,642	9,463
	26-Aug	29	41	1	4	7,073	36,750	664	6,112	1,996	7,463	504	3,903	10,238
	27-Aug	31	36	0	0	5,817	29,753	569	4,953	1,556	5,939	591	4,983	8,533
	28-Aug	28	40	0	0	6,444	32,964	440	4,198	1,424	5,158	440	3,580	8,748
	29-Aug	20	21	0	0	5,726	29,656	391	3,817	1,475	5,627	523	4,461	8,115
	30-Aug	23	31	1	25	4,144	22,160	442	4,179	831	3,118	482	3,780	5,900
	31-Aug	25	36	0	0	5,194	27,256	387	3,647	806	3,151	674	5,668	7,061
	1-Sep	27	36	0	0	8,140	41,669	541	5,181	425	1,601	681	5,428	9,787
	2-Sep	26	37	0	0	5,204	26,206	330	3,057	288	1,098	363	3,035	6,185
	3-Sep	24	29	0	0	7,001	35,818	479	4,562	79	291	426	3,252	7,985
	4-Sep	22	26	0	0	5,476	28,266	279	2,777	210	825	458	3,520	6,423
	5-Sep	24	29	0	0	3,940	20,236	716	6,826	254	956	762	6,323	5,672
	6-Sep	8	9	0	0	1,128	5,675	185	1,706	0	0	271	1,990	1,584
	7-Sep	21	31	0	0	5,785	29,590	743	7,211	222	846	840	6,544	7,590
	8-Sep	9	10	0	0	1,097	5,587	169	1,502	0	0	166	1,131	1,432
	9-Sep	21	24	0	0	3,186	16,330	528	4,944	112	453	651	4,978	4,477

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
74	10-Sep	15	18	0	0	2,265	11,341	262	2,549	37	140	344	2,609	2,908
	11-Sep	16	22	0	0	6,065	31,993	425	4,109	0	0	738	5,239	7,228
	12-Sep	4	4	0	0	719	3,996	45	474	0	0	46	323	810
	13-Sep	16	26	0	0	9,625	47,945	494	4,583	0	0	1,012	7,006	11,131
	14-Sep	16	23	0	0	3,952	19,751	199	1,986	0	0	481	3,178	4,632
	15-Sep	15	20	0	0	3,020	15,439	167	1,681	0	0	396	2,938	3,583
	16-Sep	17	21	0	0	6,434	31,912	252	2,560	0	0	579	3,626	7,265
	17-Sep	11	13	0	0	3,266	17,011	212	1,955	0	0	478	2,789	3,956
	18-Sep	7	7	0	0	1,289	6,327	70	566	0	0	120	648	1,479
	19-Sep	12	13	0	0	4,514	22,424	203	1,989	0	0	481	3,392	5,198
	20-Sep	9	10	0	0	2,958	14,199	82	765	0	0	181	1,152	3,221
	23-Sep	*	*	0	0	692	3,669	84	632	0	0	93	745	869
	2-Oct	*	*	0	0	1,086	5,756	42	315	0	0	116	934	1,244
	TOTAL		70	1,697	36	715	318,855	1,666,320	11,768	108,665	107,092	410,996	20,754	161,094
AVG.WT.					19.9		5.2		9.2		3.8		7.8	
25742	21-Jun	17	18	4	72	6,339	34,292	1	12	0	0	91	901	6,435
	22-Jun	21	28	12	148	4,864	25,790	0	0	1	3	35	433	4,912
	TOTAL	24	46	16	220	11,203	60,082	1	12	1	3	126	1,334	11,347
	AVG.WT.				13.8		5.4		12.0		3.0		10.6	
TOTALS		78	2,303	89	1,715	403,588	2,109,443	13,689	126,641	138,566	531,381	29,273	239,504	585,205
					19.3		5.2		9.3		3.8		8.2	

* = Confidential information.

TEST FISH

25741	30-May	*	*	0	0	36	182	0	0	0	0	0	0	36
	1-Jun	*	*	0	0	83	455	0	0	0	0	0	0	83
	3-Jun	*	*	0	0	64	320	0	0	0	0	0	0	64
	6-Jun	*	*	0	0	206	1,170	0	0	0	0	0	0	206
	8-Jun	*	*	0	0	114	610	0	0	0	0	1	6	115
	9-Jun	*	*	0	0	43	231	0	0	0	0	0	0	43
	11-Jun	*	*	0	0	49	270	0	0	0	0	0	0	49
	12-Jun	*	*	0	0	131	716	0	0	0	0	0	0	131

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Stat. Area	Date	Permits	Lndgs	Chinook		Sockeye		Coho		Pink		Chum		Total		
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds			
	15-Jun	*	*	0	0	205	1,066	0	0	0	0	5	51	210		
	17-Jun	*	*	0	0	169	874	0	0	0	0	3	18	172		
	18-Jun	*	*	0	0	207	1,111	0	0	0	0	6	51	213		
	19-Jun	*	*	0	0	63	345	0	0	0	0	1	6	64		
	21-Jun	*	*	0	0	170	923	0	0	0	0	9	74	179		
	23-Jun	*	*	0	0	18	102	0	0	0	0	0	0	18		
	26-Jun	*	*	0	0	7	36	0	0	0	0	2	16	9		
	28-Jun	*	*	0	0	12	64	0	0	0	0	0	0	12		
	29-Jun	*	*	0	0	6	30	0	0	0	0	0	0	6		
	1-Jul	*	*	0	0	44	250	0	0	0	0	1	6	45		
	2-Jul	*	*	0	0	101	551	0	0	4	20	8	72	113		
	5-Jul	*	*	0	0	88	503	0	0	1	4	1	8	90		
	6-Jul	*	*	0	0	113	615	0	0	12	48	6	44	131		
	8-Jul	*	*	0	0	106	564	0	0	14	55	6	53	126		
	9-Jul	*	*	0	0	6	35	0	0	3	12	1	7	10		
	10-Jul	*	*	0	0	15	82	0	0	1	4	0	0	16		
	13-Jul	*	*	0	0	242	1,292	0	0	48	168	12	84	302		
	14-Jul	*	*	0	0	64	338	3	9	22	83	3	27	92		
	TOTAL	*	29	0	0	2,362	12,735	3	9	105	394	65	523	2,535		
	AVG.WT.				0.0		5.4		3.0		3.8		8.1			
TOTALS				*	29	0	0	2,362	12,735	3	9	105	394	65	523	2,535
							0.0		5.4		3.0		3.8		8.1	

* = Confidential information.

INTRODUCTION

Commercial salmon fisheries along Kodiak Island's westside are the oldest in the KMA. Sockeye salmon returning to the Karluk River drew processors and fishers to Kodiak soon after the Alaska 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 westside Kodiak streams were documented, with sockeye salmon being landed from the Uganik, Little, and Ayakulik Rivers (Appendices A.1. and A.3.).

With increased fishing pressure, sockeye stocks declined. Fisheries spread along the westside of Kodiak to target migrating mixed sockeye, pink, chum, and coho salmon stocks. Fish traps were used heavily 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 rebuilding depressed sockeye salmon stocks.

Management of westside Kodiak fisheries is very complex due to the mixing of various local salmon stocks during inshore migration. Many tagging studies were done along Kodiak Island's westside 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 in part of the westside (the Central Section), and occasional allocative disputes arose. Harvest strategies evolved until 1990, when a specific management plan governing fisheries along the westside of Kodiak and southwest Afognak was adopted into regulation by the Board of Fisheries. It was hoped that placing a management plan in regulation would clarify the management strategy in place to maintain the biological integrity of local salmon stocks and the allocative concerns of local fishers.

Westside Kodiak Management Plan (5 AAC 18.362)

The intent of the Westside Kodiak Management Plan (5 AAC 18.362) is to harvest salmon bound to local systems in "traditional" fisheries located in the westside sections. The Westside Kodiak Management Plan (WKMP) 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. This management plan guides early and late run sockeye fisheries, including the major systems of Ayakulik and Karluk, and the minor systems of Little River, Uganik, and Malina.

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This plan states that the westside management units will be managed in June as mixed stock sockeye fisheries on sockeye bound for Alitak, Ayakulik, Karluk, and local minor systems. The WKMP also guides local pink, chum, and coho salmon fisheries of the Southwest Afognak Section and the Northwest and Southwest Kodiak Districts. These fisheries take place from early July through early October.

1997 Westside Kodiak Fisheries

As scheduled in the 1997 Kodiak Area Commercial Salmon Fishery Harvest Strategy (Prokopowich et al. 1997), the first commercial salmon fishing period began at 12:00 Noon June 9. Commercial salmon fisheries occurred in westside Kodiak management units throughout the season, based on return strength of sockeye, pink, chum, and coho salmon stocks. The last westside salmon delivery occurred on September 10. The total commercial harvest from westside Kodiak management units (Southwest Afognak to Ayakulik¹) was 8,266,487 salmon, including 11,152 chinook, 1,412,061 sockeye, 108,459 coho, 6,520,085 pink, and 214,730 chum salmon from 7,752 landings (Appendix E.2. and E.3.), which represents 57.2 percent of the total KMA salmon harvest. Purse seine fishers made 3,616 landings for 9,180 chinook (82.3%), 783,614 sockeye (55.5%), 67,402 coho (62.1%), 5,232,800 pink (80.3%), and 121,418 chum salmon (56.5%). Beach seine fishers made 64 landings for 28 chinook (0.3%), 2,086 sockeye (0.1%), 32 coho (> 0.1%), 45,662 pink (0.7%), and 630 chum salmon (0.3%). Set Gillnet fishers made 4,072 landings for 1,944 chinook (17.4%), 626,361 sockeye (44.4%), 41,025 coho (37.8%), 1,241,623 pink (19.0%), and 92,682 chum salmon (43.2%). Commercial salmon harvests, by gear type, for westside management units can be found in Appendix E.4. to E.6..

¹ Westside Kodiak salmon harvest totals do not include salmon taken in the Spiridon Lake Terminal Harvest Area. Sockeye salmon from an enhancement project return to this area. It is covered under a separate management plan; see Appendix K for a description of the Spiridon Lake Terminal Harvest Area fishery.

Appendix E.2. Commercial salmon harvest, by species, for Westside management units in the Kodiak Management Area, 1970 - 1997.

Year	Chinook	Sockeye	Coho	Pink	Chum	Total ^a
1970	702	230,424	36,038	3,485,342	135,658	3,888,164
1971	96	66,199	5,596	752,869	128,747	953,507
1972	867	121,203	4,990	608,989	193,569	929,618
1973	145	76,010	1,403	288,568	49,931	416,057
1974	227	181,075	4,919	930,645	34,214	1,151,080
1975	50	75,983	14,439	1,441,658	36,358	1,568,488
1976	253	350,403	10,412	4,786,866	91,524	5,239,458
1977	454	363,690	12,619	2,107,769	115,435	2,599,967
1978	1,352	491,503	20,216	6,245,588	134,794	6,893,453
1979	611	185,363	47,043	3,860,734	59,469	4,153,220
1980	385	411,862	44,639	11,344,424	132,910	11,934,220
1981	899	415,018	36,650	3,183,618	246,825	3,883,010
1982	858	427,454	128,718	5,538,196	450,819	6,546,045
1983	2,344	297,045	49,393	1,728,428	374,187	2,451,397
1984	3,634	925,236	104,347	9,291,637	166,069	10,490,923
1985	4,304	920,015	97,474	1,979,788	226,726	3,228,307
1986	3,728	1,632,227	102,304	9,472,330	584,538	11,795,127
1987	2,268	754,943	855,055	1,643,187	261,601	3,517,054
1988	11,848	998,895	141,115	8,574,478	609,946	10,336,282
1989 ^b	0	3,489	986	1,005	53	5,533
1990	12,090	3,383,351	176,475	3,674,278	218,883	7,465,077
1991	11,780	2,842,802	179,852	5,588,982	346,193	8,969,609
1992	17,238	2,306,791	128,737	1,538,305	302,779	4,293,850
1993	22,189	2,425,370	124,497	10,344,080	300,571	13,216,707
1994	16,930	1,365,227	137,963	3,903,911	329,578	5,753,609
1995	13,819	2,081,175	147,403	21,070,138	722,823	24,035,358
1996	10,472	2,685,573	73,610	1,823,460	367,700	4,960,815
1997	11,152	1,412,061	108,459	6,520,085	214,730	8,266,487
Average ^c 1970-1996	5,367	1,000,571	103,304	4,815,703	254,686	6,179,631
Average ^c 1986-1996	12,236	2,047,635	206,701	6,763,315	404,461	9,434,349

^a Westside Kodiak Management Plan units include the Southwest Afognak Section, the Northwest Kodiak District except for the Spiridon Lake Terminal Harvest Area, and the Southwest Kodiak District.

^b Commercial salmon fisheries were severely restricted in 1989 due to the presence of oil from the *M/V Exxon Valdez* spill.

^c Averages do not include 1989.

Appendix E.3. Commercial salmon harvest, by gear type and species, for Westside Kodiak Management Plan units, 1997.

GEAR TYPE	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total ^a	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
PURSE SEINE	233	3,616	9,180	100,022	783,614	4,041,956	67,402	537,163	5,232,800	17,426,011	121,418	1,000,721	6,214,414	23,105,873
Average Weight -				10.9		5.2		8.0		3.3		8.2		
BEACH SEINE	*	64	28	600	2,086	9,970	32	286	45,662	158,057	630	5,814	48,438	174,727
Average Weight -				21.4		4.8		8.9		3.5		9.2		
SET GILLNET	98	4,072	1,944	18,356	626,361	3,382,690	41,025	325,753	1,241,623	4,780,411	92,682	725,829	2,003,635	9,233,039
Average Weight -				9.4		5.4		7.9		3.9		7.8		
GRAND TOTAL		7,752	11,152	118,978	1,412,061	7,434,616	108,459	863,202	6,520,085	22,364,479	214,730	1,732,364	8,266,487	32,513,639
Average Weight -				10.7		5.3		8.0		3.4		8.1		

* = Confidential information.

^a Westside Kodiak Management Plan units include the Southwest Afognak Section, the Northwest Kodiak District except for the Spiridon Lake Terminal Harvest Area, and the Southwest Kodiak District.

Appendix E.4. Purse seine daily salmon harvest, by species, for Westside Kodiak Management Plan units, 1997.

Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SOUTHWEST AFOGNAK SECTION														
24-Jun	27	27	205	1,826	20,823	109,275	0	0	2,868	9,154	1,541	12,590	25,437	132,845
25-Jun	18	18	83	736	12,515	66,699	0	0	2,009	6,509	791	6,301	15,398	80,245
26-Jun	25	26	84	729	12,203	67,163	0	0	3,344	10,782	1,189	9,947	16,820	88,621
27-Jun	29	29	177	1,720	8,470	46,087	3	23	2,925	9,210	1,191	9,620	12,766	66,660
28-Jun	31	32	216	1,675	12,580	68,889	2	12	6,985	22,092	1,630	12,746	21,413	105,414
29-Jun	20	20	87	504	4,450	23,453	79	667	3,146	9,489	730	4,887	8,492	39,000
30-Jun	22	24	25	179	5,448	29,774	3	27	4,199	13,659	863	6,597	10,538	50,236
1-Jul	8	8	8	56	1,294	7,026	0	0	914	2,798	218	1,512	2,434	11,392
2-Jul	7	7	17	166	1,537	7,606	3	19	1,341	3,837	331	2,414	3,229	14,042
3-Jul	7	7	30	326	1,772	7,626	2	15	1,528	3,700	293	1,865	3,625	13,532
4-Jul	9	9	34	304	2,699	13,408	6	44	2,704	8,285	298	2,104	5,741	24,145
5-Jul	6	6	36	382	957	5,295	1	6	1,435	4,435	70	555	2,499	10,673
6-Jul	6	6	73	1,392	3,417	17,821	4	30	6,148	21,811	321	2,532	9,963	43,586
7-Jul	11	11	75	664	1,090	5,456	4	35	1,580	5,284	193	1,571	2,942	13,010
8-Jul	10	11	42	347	1,939	10,160	42	313	2,876	10,619	619	5,388	5,518	26,827
9-Jul	30	30	74	713	4,298	22,444	62	426	6,482	22,081	994	7,900	11,910	53,564
14-Jul	*	*	0	0	210	905	10	70	790	2,685	76	605	1,086	4,265
15-Jul	4	4	164	1,314	1,051	5,258	55	401	5,234	18,343	674	5,281	7,175	30,597
16-Jul	*	*	0	0	216	1,299	7	47	1,293	4,528	120	725	1,636	6,599
17-Jul	*	*	10	85	192	830	2	18	992	3,026	74	489	1,270	4,448
21-Jul	7	7	156	1,796	1,695	8,966	394	2,781	5,654	19,352	1,007	9,371	8,906	42,266
22-Jul	8	8	74	636	672	3,955	317	2,499	6,552	20,662	1,027	9,864	8,642	37,616
23-Jul	10	10	519	3,137	2,114	11,160	364	3,077	13,578	37,543	2,046	17,361	18,621	72,278
24-Jul	17	17	316	2,226	1,345	7,727	501	4,028	11,737	40,331	1,310	12,019	15,209	66,331
7-Aug	6	6	6	52	214	1,190	101	866	16,569	51,239	102	852	16,992	54,199
8-Aug	5	7	5	82	314	1,597	389	2,769	16,896	54,591	277	1,816	17,881	60,855
9-Aug	10	12	21	253	585	2,976	758	5,641	36,792	117,224	457	3,402	38,613	129,496
10-Aug	10	12	13	230	671	3,393	487	3,948	40,211	118,510	415	2,963	41,797	129,044
11-Aug	9	9	20	251	306	1,709	262	2,278	27,265	70,483	278	2,245	28,131	76,966
12-Aug	10	10	6	164	1,021	4,749	603	5,348	12,244	34,813	278	2,129	14,152	47,203
13-Aug	6	6	3	40	320	1,523	131	1,082	10,088	37,748	137	1,047	10,679	41,440
14-Aug	6	6	11	157	639	3,067	480	4,312	15,909	57,777	297	2,374	17,336	67,687
15-Aug	8	8	11	199	1,631	8,606	975	7,870	19,157	72,698	340	3,093	22,114	92,466
16-Aug	6	7	8	79	1,510	7,342	1,428	11,347	15,223	49,141	672	4,981	18,841	72,890
17-Aug	5	6	9	115	852	4,405	531	4,610	8,315	27,645	99	766	9,806	37,541
18-Aug	6	8	2	17	1,387	6,493	384	2,867	15,849	48,524	239	1,577	17,861	59,478
19-Aug	*	*	1	6	327	1,602	102	745	4,571	11,547	20	134	5,021	14,034
20-Aug	4	5	7	96	1,073	6,158	376	3,332	11,313	41,663	107	864	12,876	52,113
21-Aug	*	*	1	12	474	2,776	259	2,138	5,905	21,949	64	648	6,703	27,523
25-Aug	*	*	2	63	91	426	106	770	2,808	9,006	5	35	3,012	10,300
26-Aug	6	7	28	314	523	2,597	1,712	12,524	17,126	53,055	133	857	19,522	69,347

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SOUTHWEST AFOGNAK SECTION (Cont.)														
27-Aug	*	*	20	207	191	866	1,390	8,345	1,370	4,796	22	158	2,993	14,372
TOTAL	103	439	2,679	23,250	115,116	609,757	12,335	95,330	373,925	1,192,624	21,545	174,185	525,600	2,095,146
AVG.WT.				8.7		5.3		7.7		3.2		8.1		
NORTHWEST KODIAK DISTRICT														
9-Jun	5	5	23	154	1,900	9,235	0	0	0	0	26	222	1,949	9,611
19-Jun	6	6	1	18	3,886	19,103	0	0	92	324	140	993	4,119	20,438
20-Jun	9	9	7	139	5,757	27,244	0	0	251	886	391	2,790	6,406	31,059
21-Jun	4	4	6	44	2,865	15,430	0	0	379	974	128	904	3,378	17,352
22-Jun	5	5	4	86	2,455	12,795	0	0	276	939	211	1,499	2,946	15,319
24-Jun	9	9	25	127	3,534	17,561	0	0	473	1,468	182	1,515	4,214	20,671
25-Jun	7	7	17	176	2,972	13,845	0	0	541	1,625	267	2,018	3,797	17,664
26-Jun	6	6	55	424	2,833	13,057	0	0	254	780	72	560	3,214	14,821
27-Jun	7	7	11	128	422	2,002	0	0	893	3,755	253	1,829	1,579	7,714
28-Jun	4	4	1	5	88	424	0	0	230	677	56	445	375	1,551
29-Jun	4	4	5	30	718	3,085	1	11	206	632	61	528	991	4,286
30-Jun	*	*	0	0	93	400	0	0	62	205	10	80	165	685
1-Jul	7	7	7	71	614	3,171	2	14	1,038	3,372	52	418	1,713	7,046
2-Jul	8	8	7	53	1,148	6,416	3	25	984	3,275	432	3,295	2,574	13,064
3-Jul	10	10	13	119	1,860	9,008	63	430	2,321	6,976	962	7,748	5,219	24,281
4-Jul	5	5	0	0	346	1,743	4	32	1,131	3,510	99	684	1,580	5,969
5-Jul	6	6	38	344	2,760	12,794	130	1,020	2,523	7,572	1,153	7,739	6,604	29,469
6-Jul	*	*	5	39	458	2,283	25	177	701	2,104	203	1,415	1,392	6,018
7-Jul	18	19	130	998	4,150	20,132	100	712	5,321	17,236	1,363	9,442	11,064	48,520
8-Jul	8	8	8	96	1,235	6,757	78	558	1,473	5,029	253	2,215	3,047	14,655
9-Jul	47	48	91	777	4,833	24,651	153	1,150	14,121	46,712	1,969	15,159	21,167	88,449
14-Jul	20	20	43	488	3,038	13,365	91	634	14,726	50,866	659	5,768	18,557	71,121
15-Jul	28	29	205	1,715	5,182	26,065	81	586	33,017	107,143	2,310	17,220	40,795	152,729
16-Jul	18	19	81	711	1,644	8,767	237	1,506	14,924	49,414	1,191	8,669	18,077	69,067
17-Jul	30	30	97	658	1,338	7,375	279	2,050	13,744	47,632	2,642	20,918	18,100	78,633
21-Jul	19	19	244	2,360	1,450	7,436	113	815	18,750	72,161	1,891	17,254	22,448	100,026
22-Jul	28	29	189	1,836	4,664	23,999	274	2,564	36,482	124,567	4,245	38,013	45,854	190,979
23-Jul	36	40	271	2,555	3,813	19,288	439	3,283	47,773	168,350	6,614	58,840	58,910	252,316
24-Jul	69	69	260	2,978	6,018	30,603	675	5,081	73,782	249,869	8,399	73,693	89,134	362,224
29-Jul	5	5	0	0	426	2,201	32	257	13,289	49,943	408	3,486	14,155	55,887
30-Jul	22	22	57	658	3,278	16,698	1,014	7,463	56,814	190,618	1,537	13,332	62,700	228,769
31-Jul	17	18	30	345	3,851	19,735	294	1,822	32,191	112,185	2,350	17,558	38,716	151,645
1-Aug	24	24	62	610	3,167	16,492	1,092	9,150	56,251	196,000	1,542	12,881	62,114	235,133
2-Aug	21	24	89	1,085	2,387	12,067	765	6,667	56,444	200,260	885	7,788	60,570	227,867
3-Aug	24	24	118	1,370	4,684	24,389	1,246	9,297	51,532	174,985	1,307	10,191	58,887	220,232
4-Aug	20	21	0	0	1,692	9,036	307	2,993	35,856	127,943	773	7,112	38,628	147,084

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
NORTHWEST KODIAK DISTRICT (Cont.)															
5-Aug	23	25	12	158	2,689	13,573	774	5,968	71,518	240,051	1,006	8,201	75,999	267,951	
6-Aug	*	*	0	0	243	1,200	39	250	6,328	20,900	24	250	6,634	22,600	
7-Aug	37	39	8	102	2,790	14,707	880	7,638	107,960	348,080	3,163	29,128	114,801	399,655	
8-Aug	46	52	6	106	2,951	16,835	1,420	10,990	119,076	419,571	5,298	47,168	128,751	494,670	
9-Aug	54	64	37	346	3,227	16,717	2,046	14,880	112,625	370,850	3,128	23,091	121,063	425,884	
10-Aug	79	80	29	435	7,434	35,136	2,924	23,061	186,481	630,659	7,600	63,052	204,468	752,343	
11-Aug	66	70	75	807	7,199	37,232	2,260	17,294	178,027	604,984	3,359	27,228	190,920	687,545	
12-Aug	74	82	56	541	10,167	52,268	2,623	21,970	240,518	837,310	4,161	33,728	257,525	945,817	
13-Aug	57	59	42	552	4,068	21,497	1,296	11,192	163,202	557,161	3,573	34,094	172,181	624,496	
14-Aug	66	69	60	690	4,325	22,278	1,760	14,440	236,780	806,827	1,248	9,967	244,173	854,202	
15-Aug	72	74	132	1,174	8,123	44,746	2,282	17,672	265,583	896,215	1,353	11,220	277,473	971,027	
16-Aug	70	75	447	2,319	10,130	52,553	1,269	10,393	261,681	875,925	1,586	13,481	275,113	954,671	
17-Aug	79	83	87	1,024	12,215	61,034	1,981	15,886	283,045	906,952	1,138	8,782	298,466	993,678	
18-Aug	88	98	82	837	9,880	51,404	2,194	17,101	248,913	839,628	1,218	8,977	262,287	917,947	
19-Aug	65	66	146	1,350	8,413	45,231	3,133	24,493	203,626	685,496	840	6,605	216,158	763,175	
20-Aug	58	66	25	323	5,473	29,780	1,380	10,401	188,367	635,067	779	6,041	196,024	681,612	
21-Aug	42	50	19	230	4,508	23,797	1,309	11,462	175,229	528,213	591	4,857	181,656	568,559	
22-Aug	48	52	26	213	5,136	26,714	1,578	14,048	195,913	636,932	632	5,492	203,285	683,399	
23-Aug	50	52	40	557	6,424	34,848	2,195	16,622	189,492	586,488	475	3,799	198,626	642,314	
24-Aug	50	51	54	742	5,889	31,771	2,275	18,290	172,836	601,249	392	3,411	181,446	655,463	
25-Aug	56	60	17	224	4,380	22,871	2,369	19,601	164,028	535,273	353	2,699	171,147	580,668	
26-Aug	53	53	71	695	4,763	23,638	3,538	29,991	132,541	449,338	389	3,135	141,302	506,797	
27-Aug	50	50	34	779	4,751	23,462	3,661	29,899	147,447	500,982	498	3,900	156,391	559,022	
TOTAL	196	1,945	3,705	35,401	226,737	1,161,944	52,684	421,839	4,640,061	15,544,138	87,840	732,527	5,011,027	17,895,849	
AVG.WT.				9.6		5.1		8.0		3.4		8.3			
OUTER KARLUK															
19-Jun	12	12	75	1,436	9,002	43,228	0	0	59	178	152	933	9,288	45,775	
20-Jun	11	11	66	1,185	10,306	47,067	0	0	147	435	251	1,567	10,770	50,254	
21-Jun	5	5	13	133	3,783	18,830	0	0	31	116	45	470	3,872	19,549	
22-Jun	8	9	28	526	4,440	20,301	0	0	69	156	98	653	4,635	21,636	
23-Jun	6	6	11	169	1,913	9,259	0	0	29	87	18	139	1,971	9,654	
24-Jun	13	13	57	816	4,762	21,159	7	70	286	844	84	759	5,196	23,648	
25-Jun	14	14	137	2,356	7,173	35,098	0	0	446	1,409	255	1,790	8,011	40,653	
26-Jun	4	4	29	435	1,335	6,983	0	0	55	169	35	283	1,454	7,870	
27-Jun	8	8	71	896	3,537	16,457	0	0	251	770	122	805	3,981	18,928	
28-Jun	10	10	61	933	3,229	15,413	0	0	259	865	110	752	3,659	17,963	
29-Jun	10	10	41	532	3,534	16,155	0	0	887	3,006	93	673	4,555	20,366	
30-Jun	14	14	29	392	4,625	21,660	1	8	2,843	8,788	190	1,262	7,688	32,110	
1-Jul	6	6	6	98	997	4,481	3	18	696	2,116	46	276	1,748	6,989	
2-Jul	*	*	1	3	198	957	0	0	86	258	6	44	291	1,262	

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OUTER KARLUK (Cont.)														
3-Jul	10	10	1	14	1,659	7,299	2	13	2,540	8,074	52	390	4,254	15,790
4-Jul	*	*	9	105	1,496	6,131	0	0	1,538	4,807	42	308	3,085	11,351
5-Jul	*	*	6	53	1,875	7,909	0	0	871	2,873	63	481	2,815	11,316
6-Jul	5	6	8	118	1,917	8,479	3	26	721	2,434	57	420	2,706	11,477
7-Jul	8	8	6	77	1,951	9,156	4	26	477	1,503	56	386	2,494	11,148
8-Jul	*	*	0	0	80	362	0	0	198	596	3	28	281	986
9-Jul	5	5	0	0	576	3,057	0	0	324	1,089	29	240	929	4,386
TOTAL	43	162	655	10,277	68,388	319,441	20	161	12,813	40,573	1,807	12,659	83,683	383,111
AVG.WT.				15.7		4.7		8.1		3.2		7.0		
INNER KARLUK														
21-Jun	6	6	122	1,795	4,352	22,179	0	0	12	40	29	208	4,515	24,222
23-Jun	*	*	107	1,585	1,264	6,268	2	12	35	70	21	206	1,429	8,141
24-Jun	*	*	42	660	235	1,010	0	0	0	0	12	100	289	1,770
25-Jun	6	6	65	727	1,959	8,984	0	0	229	606	227	1,567	2,480	11,884
26-Jun	*	*	54	759	1,133	5,207	0	0	15	44	22	140	1,224	6,150
27-Jun	7	7	129	2,508	2,527	12,228	0	0	129	427	92	719	2,877	15,882
28-Jun	12	12	118	2,197	4,024	19,626	0	0	567	1,759	208	1,561	4,917	25,143
29-Jun	5	5	22	259	1,223	5,974	1	7	295	929	50	420	1,591	7,589
30-Jun	6	6	27	551	2,187	10,716	0	0	1,117	3,562	153	1,320	3,484	16,149
1-Jul	4	4	16	276	1,136	5,969	1	12	160	333	10	76	1,323	6,666
2-Jul	6	6	20	231	1,178	6,477	0	0	301	778	41	404	1,540	7,890
3-Jul	4	4	10	112	998	5,016	0	0	122	445	27	236	1,157	5,809
4-Jul	4	4	13	268	2,800	14,288	0	0	1,983	6,280	63	470	4,859	21,306
5-Jul	6	6	12	233	1,945	9,818	0	0	737	2,254	66	531	2,760	12,836
7-Jul	*	*	1	22	191	945	0	0	5	19	1	9	198	995
8-Jul	*	*	30	106	554	2,778	0	0	210	632	25	180	819	3,696
9-Jul	*	*	2	25	767	3,843	0	0	605	1,819	66	464	1,440	6,151
10-Jul	*	*	0	0	342	1,883	0	0	604	2,115	14	131	960	4,129
TOTAL	34	79	790	12,314	28,815	143,209	4	31	7,126	22,112	1,127	8,742	37,862	186,408
AVG.WT.				15.6		5.0		7.8		3.1		7.8		
HALIBUT BAY SECTION														
23-Jun	6	6	7	119	4,448	24,244	1	5	385	894	77	777	4,918	26,039
24-Jun	18	22	23	342	9,021	45,765	2	21	731	2,037	200	1,759	9,977	49,924
25-Jun	22	22	19	252	7,957	39,261	0	0	1,112	2,989	394	3,548	9,482	46,050
26-Jun	19	21	32	351	5,553	29,489	1	10	708	2,125	181	1,572	6,475	33,547
27-Jun	19	19	28	293	5,298	25,250	4	20	562	1,778	137	1,066	6,029	28,407
28-Jun	17	17	43	543	6,248	33,018	2	17	1,155	3,658	121	923	7,569	38,159
29-Jun	28	28	50	578	11,881	60,909	2	15	4,650	13,696	346	2,726	16,929	77,924
30-Jun	29	30	44	534	15,431	84,488	12	70	6,420	19,593	565	4,476	22,472	109,161

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
HALIBUT BAY SECTION (Cont.)														
1-Jul	23	24	34	551	6,404	33,937	3	20	3,626	10,779	264	2,080	10,331	47,367
2-Jul	17	18	12	152	4,043	21,716	7	54	1,658	5,090	206	1,494	5,926	28,506
3-Jul	15	17	16	212	4,533	22,712	2	15	2,209	5,602	82	560	6,842	29,101
4-Jul	19	20	18	181	9,328	48,661	0	0	4,135	11,795	213	1,667	13,694	62,304
5-Jul	14	14	26	284	6,111	32,501	0	0	1,988	5,758	159	1,264	8,284	39,807
6-Jul	8	8	17	189	3,874	21,039	3	16	1,300	4,271	105	535	5,299	26,050
7-Jul	11	12	18	209	5,281	28,177	5	31	2,978	8,654	91	702	8,373	37,773
8-Jul	20	22	14	261	10,461	56,995	25	182	5,635	16,904	182	1,452	16,317	75,794
9-Jul	24	26	14	181	13,001	69,897	22	159	7,714	23,154	290	2,252	21,041	95,643
14-Jul	7	7	2	14	1,236	5,899	0	0	1,393	4,190	21	177	2,652	10,280
15-Jul	15	16	22	212	6,873	35,862	39	226	12,663	40,324	229	1,451	19,826	78,075
16-Jul	23	28	22	298	9,896	50,375	42	282	12,159	40,784	361	2,948	22,480	94,687
17-Jul	26	27	43	341	6,478	34,228	33	244	8,495	26,257	158	1,293	15,207	62,363
21-Jul	11	12	4	57	5,057	26,007	148	1,056	6,791	22,522	181	1,503	12,181	51,145
22-Jul	16	16	1	11	7,903	39,293	209	1,616	12,674	41,307	145	1,322	20,932	83,549
23-Jul	17	19	10	104	5,774	30,140	155	1,190	10,000	33,404	238	1,841	16,177	66,679
24-Jul	19	19	6	121	6,307	30,775	130	991	11,358	37,419	251	1,865	18,052	71,171
29-Jul	*	*	0	0	861	4,303	19	170	1,668	5,838	15	135	2,563	10,446
30-Jul	*	*	0	0	437	2,184	12	98	816	2,855	9	79	1,274	5,216
31-Jul	*	8	0	0	3,758	19,505	88	853	6,791	23,769	49	448	10,686	44,575
TOTAL	103	481	525	6,390	183,453	956,630	966	7,361	131,774	417,446	5,270	41,915	321,988	1,429,742
AVG.WT.				12.2		5.2		7.6		3.2		8.0		
OUTER AYAKULIK SECTION														
20-Jun	*	4	0	0	3,210	16,698	0	0	0	0	0	0	3,210	16,698
21-Jun	7	7	5	104	4,701	23,762	0	0	22	80	29	222	4,757	24,168
22-Jun	7	7	42	875	2,611	13,968	0	0	158	483	92	637	2,903	15,963
23-Jun	8	8	59	1,190	1,081	5,453	0	0	148	493	37	263	1,325	7,399
24-Jun	25	25	144	2,448	6,787	33,849	0	0	613	1,993	185	1,357	7,729	39,647
25-Jun	16	16	83	1,459	4,028	22,018	0	0	521	1,581	134	781	4,766	25,839
26-Jun	25	25	63	798	5,019	26,492	0	0	1,295	3,077	202	1,338	6,579	31,705
27-Jun	43	45	82	1,437	7,373	39,548	0	0	5,376	14,477	273	2,393	13,104	57,855
28-Jun	21	21	18	221	5,057	26,401	1	8	5,686	13,768	171	1,560	10,933	41,958
29-Jun	17	17	38	484	7,039	35,724	2	13	3,738	10,017	99	828	10,916	47,066
30-Jun	20	21	32	338	6,420	33,040	0	0	2,076	6,236	139	1,051	8,667	40,665
1-Jul	47	47	52	549	13,784	74,972	4	27	3,795	11,927	256	2,062	17,891	89,537
2-Jul	40	40	19	211	8,578	45,557	1	7	1,306	4,210	71	574	9,975	50,559
3-Jul	30	30	27	410	9,111	47,130	3	19	1,448	4,691	118	963	10,707	53,213
4-Jul	38	38	28	363	14,700	79,910	6	40	3,556	11,687	368	2,982	18,658	94,982
5-Jul	31	32	35	378	12,557	66,553	5	39	3,417	10,343	243	1,970	16,257	79,283
6-Jul	28	29	13	165	10,620	58,390	10	71	2,667	9,312	245	1,739	13,555	69,677

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
OUTER AYAKULIK SECTION (Cont.)														
7-Jul	29	31	23	303	14,611	80,340	51	371	4,971	15,641	284	2,200	19,940	98,855
14-Jul	10	10	0	0	2,396	12,670	10	71	3,587	12,700	422	3,752	6,415	29,193
15-Jul	14	14	45	339	9,924	47,852	33	272	8,073	27,563	194	1,761	18,269	77,787
16-Jul	10	11	13	228	4,501	23,023	40	256	7,648	25,501	95	837	12,297	49,845
17-Jul	18	18	0	0	4,811	26,551	50	356	6,978	23,293	130	1,040	11,969	51,240
8-Sep	4	4	0	0	255	1,318	553	5,463	0	0	8	77	816	6,858
9-Sep	*	*	0	0	45	227	11	88	0	0	0	0	56	315
10-Sep	7	7	1	21	1,605	8,044	613	5,340	0	0	33	300	2,252	13,705
TOTAL	122	508	822	12,321	160,824	849,490	1,393	12,441	67,079	209,073	3,828	30,687	233,946	1,114,012
AVG.WT.				15.0		5.3		8.9		3.1		8.0		
INNER AYAKULIK SECTION														
26-Jun	*	*	4	69	281	1,485	0	0	22	45	1	6	308	1,605
TOTAL	*	*	4	69	281	1,485	0	0	22	45	1	6	308	1,605
AVG.WT.				17.3		5.3		0.0		2.1		6.0		

* = Confidential information.

Appendix E.5. Beach seine daily salmon harvest, by species, for Westside Kodiak Management Plan units, 1997.

Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
NORTHWEST KODIAK DISTRICT															
19-Jun	*	*	0	0	400	1,751	0	0	0	0	0	0	400	1,751	
20-Jun	*	*	0	0	1,065	5,325	0	0	0	0	0	0	1,065	5,325	
24-Jun	*	*	0	0	43	211	0	0	74	199	1	7	118	417	
25-Jun	*	*	0	0	6	26	0	0	85	215	1	8	92	249	
26-Jun	*	*	0	0	0	0	0	0	50	136	0	0	50	136	
28-Jun	*	*	0	0	3	13	0	0	242	677	0	0	245	690	
1-Jul	*	*	0	0	2	10	0	0	92	298	2	17	96	325	
2-Jul	*	*	0	0	0	0	0	0	23	88	1	8	24	96	
6-Jul	*	*	2	54	2	11	0	0	211	728	4	40	219	833	
7-Jul	*	*	1	39	0	0	0	0	126	360	3	24	130	423	
8-Jul	*	*	1	31	2	10	0	0	258	820	0	0	261	861	
14-Jul	*	*	1	22	13	59	0	0	1,135	3,811	11	108	1,160	4,000	
15-Jul	*	*	1	22	3	17	0	0	45	152	1	10	50	201	
17-Jul	*	*	0	0	1	5	0	0	528	2,015	17	184	546	2,204	
21-Jul	*	*	16	221	46	208	1	8	2,035	7,922	82	733	2,180	9,092	
22-Jul	*	*	1	48	13	65	0	0	2,153	7,923	108	918	2,275	8,954	
23-Jul	*	*	0	0	7	32	0	0	316	1,041	12	119	335	1,192	
24-Jul	*	*	3	84	11	48	0	0	1,521	5,738	71	723	1,606	6,593	
29-Jul	*	*	1	55	75	348	3	30	3,197	11,345	29	288	3,305	12,066	
30-Jul	*	*	1	24	57	266	2	18	1,343	4,491	21	201	1,424	5,000	
31-Jul	*	*	0	0	14	67	0	0	2,128	7,305	22	236	2,164	7,608	
1-Aug	*	*	0	0	12	53	0	0	2,980	10,618	34	308	3,026	10,979	
2-Aug	*	*	0	0	33	142	0	0	2,493	8,668	11	78	2,537	8,888	
4-Aug	*	*	0	0	50	195	1	9	3,304	11,567	20	189	3,375	11,960	
5-Aug	*	*	0	0	14	70	0	0	785	2,986	27	262	826	3,318	
7-Aug	*	*	0	0	15	64	2	20	3,086	10,596	48	420	3,151	11,100	
8-Aug	*	*	0	0	3	13	1	6	982	3,358	19	172	1,005	3,549	
9-Aug	*	*	0	0	3	10	0	0	1,168	3,897	19	177	1,190	4,084	
10-Aug	*	*	0	0	3	15	0	0	65	200	1	8	69	223	
12-Aug	*	*	0	0	6	25	0	0	1,600	5,474	8	81	1,614	5,580	
13-Aug	*	*	0	0	3	13	0	0	1,585	5,482	9	89	1,597	5,584	
14-Aug	*	*	0	0	3	14	0	0	193	601	3	26	199	641	
15-Aug	*	*	0	0	21	103	5	47	2,111	7,394	10	98	2,147	7,642	
16-Aug	*	*	0	0	19	82	4	38	698	2,336	1	9	722	2,465	
17-Aug	*	*	0	0	46	230	3	22	1,478	4,835	9	74	1,536	5,161	
18-Aug	*	*	0	0	45	235	1	10	2,683	8,701	5	38	2,734	8,984	
19-Aug	*	*	0	0	40	199	8	68	2,309	7,503	6	47	2,363	7,817	
20-Aug	*	*	0	0	2	11	0	0	1,669	5,559	10	80	1,681	5,650	
21-Aug	*	*	0	0	1	5	0	0	873	2,905	3	24	877	2,934	
22-Aug	*	*	0	0	4	19	1	10	38	113	1	10	44	152	
TOTAL	*	64	28	600	2,086	9,970	32	286	45,662	158,057	630	5,814	48,438	174,727	
AVG.WT.				21.4		4.8		8.9		3.5		9.2			

* = Confidential information.

Appendix E.6. Gillnet daily salmon harvest, by species, for Westside Kodiak Management Plan units, 1997.

Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
NORTHWEST KODIAK DISTRICT															
9-Jun	23	23	10	142	7,206	39,348	0	0	10	39	70	527	7,296	40,056	
10-Jun	25	30	30	410	17,714	93,617	0	0	18	69	177	1,384	17,939	95,480	
14-Jun	24	24	31	366	8,440	44,247	0	0	29	91	108	766	8,608	45,470	
15-Jun	27	30	74	806	17,078	90,003	0	0	62	197	287	2,033	17,501	93,039	
16-Jun	15	23	30	366	10,697	55,832	1	7	30	106	231	1,605	10,989	57,916	
17-Jun	9	9	6	84	12,029	62,175	0	0	8	30	177	1,232	12,220	63,521	
18-Jun	15	16	11	140	14,813	78,588	0	0	10	33	205	1,466	15,039	80,227	
19-Jun	21	21	16	206	17,958	94,924	0	0	49	188	201	1,430	18,224	96,748	
20-Jun	30	32	10	107	12,899	68,432	0	0	130	515	167	1,261	13,206	70,315	
21-Jun	42	44	24	320	17,508	92,729	0	0	317	1,176	423	3,185	18,272	97,410	
22-Jun	52	65	81	640	19,180	102,366	1	6	544	1,736	559	4,221	20,365	108,969	
23-Jun	66	84	64	646	15,140	80,017	1	5	812	2,948	512	3,958	16,529	87,574	
24-Jun	67	78	97	815	17,465	92,817	4	28	1,006	3,760	764	5,788	19,336	103,208	
25-Jun	69	83	96	644	9,921	52,733	5	31	1,219	4,534	611	4,484	11,852	62,426	
26-Jun	66	74	83	524	9,185	48,698	3	19	1,356	4,986	651	4,872	11,278	59,099	
27-Jun	67	80	69	582	9,578	51,358	5	36	1,473	5,245	689	4,897	11,814	62,118	
28-Jun	67	74	78	639	7,378	39,388	7	52	1,885	6,728	438	3,319	9,786	50,126	
29-Jun	65	72	57	508	9,034	47,344	7	45	2,579	9,291	524	3,892	12,201	61,080	
30-Jun	69	75	43	395	7,225	39,987	7	42	2,412	8,911	650	4,845	10,337	54,180	
1-Jul	62	63	51	455	5,307	29,636	7	49	2,149	8,095	673	4,879	8,187	43,114	
2-Jul	63	72	97	753	6,743	36,916	15	93	3,246	12,189	931	6,914	11,032	56,865	
3-Jul	64	72	70	416	6,728	36,857	32	223	3,952	14,804	739	5,605	11,521	57,905	
4-Jul	64	70	54	480	8,833	47,761	55	363	5,361	20,470	757	5,693	15,060	74,767	
5-Jul	69	81	94	840	11,671	63,197	47	307	5,978	22,220	1,188	8,872	18,978	95,436	
6-Jul	70	77	48	430	13,543	73,553	38	267	7,966	29,737	1,525	10,899	23,120	114,886	
7-Jul	72	107	47	424	13,123	71,597	77	562	9,801	38,717	2,033	14,517	25,081	125,817	
8-Jul	61	75	49	496	10,831	59,656	101	666	9,169	35,381	1,584	11,832	21,734	108,031	
9-Jul	61	70	20	239	9,816	54,102	130	880	10,151	39,037	1,209	8,991	21,326	103,249	
14-Jul	63	63	20	185	8,476	47,027	56	408	10,196	39,928	1,036	8,001	19,784	95,549	
15-Jul	72	76	45	468	10,749	60,379	294	2,065	22,122	86,221	2,323	18,142	35,533	167,275	
16-Jul	73	82	53	734	6,838	38,615	312	2,198	14,597	57,093	1,813	14,487	23,613	113,127	
17-Jul	63	66	109	912	5,901	33,368	372	2,577	15,522	60,806	3,296	26,015	25,200	123,678	
21-Jul	58	59	33	305	7,402	40,510	149	1,132	12,464	50,003	1,585	12,747	21,633	104,697	
22-Jul	70	81	77	619	17,496	94,254	489	3,712	31,458	120,150	4,112	35,121	53,632	253,856	
23-Jul	71	97	37	370	18,535	101,097	523	3,922	37,652	143,689	4,380	37,687	61,127	286,765	
24-Jul	75	93	16	165	14,245	78,019	615	4,634	39,378	153,875	3,353	28,736	57,607	265,429	
29-Jul	32	33	2	55	5,091	28,333	199	1,462	14,499	56,143	905	7,036	20,696	93,029	
30-Jul	37	45	12	173	8,956	48,826	944	7,012	36,332	137,207	2,349	18,720	48,593	211,938	
31-Jul	40	47	2	15	7,815	42,972	854	6,164	28,781	109,152	2,137	15,951	39,589	174,254	

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Year	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
NORTHWEST KODIAK DISTRICT (Cont.)														
1-Aug	44	47	6	88	6,364	34,743	1,023	7,231	25,131	95,147	2,575	19,335	35,099	156,544
2-Aug	45	48	0	0	7,409	40,262	1,065	7,494	30,665	115,677	2,766	20,135	41,905	183,568
3-Aug	41	55	7	106	10,225	56,100	1,421	9,807	40,526	151,744	2,469	18,540	54,648	236,297
4-Aug	40	47	2	15	9,205	50,305	679	5,449	30,167	116,110	1,543	12,687	41,596	184,566
5-Aug	45	52	2	48	5,584	30,911	854	6,402	27,139	105,505	2,520	19,990	36,099	162,856
6-Aug	60	61	4	64	4,548	24,729	971	7,659	30,651	120,168	2,109	17,239	38,283	169,859
7-Aug	66	87	2	30	6,310	35,524	1,617	12,972	46,604	183,340	3,032	24,600	57,565	256,466
8-Aug	63	77	1	12	6,204	34,131	1,563	12,546	36,750	144,852	2,931	23,095	47,449	214,636
9-Aug	60	76	9	132	6,612	36,637	1,425	11,357	34,939	137,659	2,862	23,219	45,847	209,004
10-Aug	64	73	6	77	8,251	45,895	1,328	10,676	38,136	150,117	2,956	23,385	50,677	230,150
11-Aug	59	67	6	105	8,417	46,304	1,288	10,024	31,142	122,286	2,224	17,563	43,077	196,282
12-Aug	57	66	9	93	8,685	47,511	1,245	10,042	39,448	155,223	2,315	18,481	51,702	231,350
13-Aug	61	68	9	165	6,812	37,489	895	7,267	39,133	153,723	1,921	14,882	48,770	213,526
14-Aug	61	77	0	0	5,569	30,827	1,559	12,604	51,089	200,236	2,356	18,867	60,573	262,534
15-Aug	61	68	1	7	7,247	39,953	1,124	8,953	46,336	181,330	1,414	11,067	56,122	241,310
16-Aug	59	69	5	55	7,953	43,753	1,173	9,622	42,226	161,727	1,525	11,961	52,882	227,118
17-Aug	60	69	6	123	8,254	45,389	1,385	11,167	40,522	156,611	1,452	11,166	51,619	224,456
18-Aug	59	68	2	34	7,897	43,138	1,268	10,451	35,012	135,796	1,000	7,940	45,179	197,359
19-Aug	60	67	2	18	9,632	52,172	1,347	11,399	33,587	129,935	1,131	8,693	45,699	202,217
20-Aug	59	65	3	35	9,982	53,458	1,208	10,124	37,217	143,403	1,127	8,802	49,537	215,822
21-Aug	60	64	2	29	8,404	44,349	1,004	8,487	32,261	122,167	934	7,021	42,605	182,053
22-Aug	54	59	0	0	6,547	34,374	1,432	11,925	25,832	97,659	984	7,258	34,795	151,216
23-Aug	55	62	2	30	6,104	32,286	2,023	16,945	26,332	98,628	785	6,071	35,246	153,960
24-Aug	52	56	2	31	5,181	27,041	1,524	12,332	22,943	84,732	609	4,458	30,259	128,594
25-Aug	53	57	5	78	4,419	22,839	1,871	15,070	24,614	90,764	690	5,294	31,599	134,045
26-Aug	50	52	4	95	2,123	11,010	1,676	14,158	17,181	62,617	531	3,807	21,515	91,687
27-Aug	44	49	1	12	3,876	20,282	1,707	14,623	21,317	77,755	549	4,263	27,450	116,935
TOTAL	98	4,072	1,944	18,356	626,361	3,382,690	41,025	325,753	1,241,623	4,780,411	92,682	725,829	2,003,635	9,233,039
AVG.WT.				9.4		5.4		7.9		3.9		7.8		

* = Confidential information.

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 (Appendices A.1 and A.6.). 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 run 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.

The North Shelikof Strait Sockeye Salmon Management Plan (NSSSSMP) limits purse seine fishing opportunities in those sections of the Kodiak Area which border the north Shelikof Strait (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). The plan covers the time period from July 6 through July 25 and establishes two specific sockeye salmon harvest "triggers" for defined management units within the affected zone. These "triggers" were established to protect Cook Inlet bound sockeye salmon which migrate through the Shelikof Strait. The Southwest Afognak management unit, comprised of the entire Southwest Afognak Section, and the North Shelikof management unit, comprised of the Dakavak Bay, Outer Kukak Bay, Hallo Bay, and Big River Sections of the Mainland District and the Shuyak Island and Northwest Afognak Sections of the Afognak District, have separate sockeye harvest triggers. If the sockeye harvest within either of these units reaches an established level then commercial fishing opportunities within that unit are severely restricted.

By regulation "Seaward Zones" are established in each management unit; these zones are comprised of all waters seaward of a baseline which is drawn from cape to cape¹. The Seaward Zone of the Southwest Afognak Unit will close to fishing if 50,000 sockeye salmon are harvested between July 6 through July 25. The Seaward Zone of the North Shelikof Unit will close to fishing if 15,000 sockeye salmon are harvested between July 6 through July 25. If a Seaward Zone closure occurs, only the inshore "Shoreward Zone" (all waters inside the baseline) will remain open to commercial fishing during normal fishing periods.

Permit holders who intend to fish in management units covered by this plan were advised in the 1997 Kodiak Area Commercial Salmon Fishery Harvest Strategy (Prokopowich et al. 1997) that in-period closures of the Seaward Zones might occur. In order to provide for orderly in-period closures, permit holders were notified that such closures would be announced on SSB channel 4125 MHz, at 8:00 AM, 10:00 AM, 2:00 PM, or 6:00 PM daily, with the effective closure time occurring in as little as three hours following the initial announcement.

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¹ In 1993 the "seaward zone" boundary of the Southwest Afognak unit was modified by the Alaska board of Fisheries. The "seaward zone" boundary was moved 1/2 mile offshore of the baseline running cape to cape, in order to allow for traditional harvest opportunities of pink salmon.

In the six years this plan has been in effect, seaward zone closures occurred in the Southwest Afognak Unit in 1992 and 1993, and seaward zone closures occurred in the North Shelikof Unit in 1990, 1992 through 1997 (Appendix F.2.).

1997 North Shelikof Strait Salmon Fishery

Length and timing of commercial salmon fishing periods in the areas covered by this plan during July are based on the Kodiak pink and chum salmon harvest strategy. These areas have traditionally been opened during this time to allow for the harvest of bright, high quality pink and chum salmon migrating down the Shelikof Strait towards the major spawning systems of the west and south sides of Kodiak, or to local systems of Afognak and the Alaska Peninsula. Weekly fishing periods are scheduled preseason based on the forecasted return strength of pink salmon.

In 1997, during the July 6 to 25 time period of the North Shelikof Management Plan, three (3) fishing periods were scheduled preseason. For both the Southwest Afognak management unit and that portion of the North Shelikof management unit along Afognak Island (the Northwest Afognak and Shuyak Islands Sections), fishing was to be opened 12:00 noon July 6 through 9:00 PM July 9 (3½ days), 12:00 noon July 14 through 9:00 PM July 18 (4½ days), and 12:00 noon July 21 through 9:00 PM July 25 (4½ days). For that portion of the North Shelikof management unit in the Mainland District (Big River to Dakavak Sections), fishing was to be opened 12:00 noon July 6 through 9:00 PM July 8 (2½ days), 12:00 noon July 14 through 9:00 PM July 16 (2½ days), and 12:00 noon July 21 through 9:00 PM July 23 (2½ days).

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. Harvest estimates were also made from daily verbal catch reports by processors to the ADF&G management staff in Kodiak.

In the Southwest Afognak management unit (50,000 sockeye salmon trigger), the Seaward Zone remained open during normal fishing periods from July 6 to 25. The total commercial salmon harvest from 62 permit holders was 1,503 chinook, 18,239 sockeye, 1,762 coho, 62,916 pink, and 8,448 chum salmon (Appendix F.2.and F.3.).

In the North Shelikof management units (15,000 sockeye trigger), the Seaward Zones were closed by emergency order on July 8 at 5:00 PM. At the time of the closure, approximately 19,850 sockeye salmon had been taken, based on harvest estimates from catcher vessels and processors (Appendix F.2.). The Shoreward Zones of the North Shelikof Unit remained open during normal fishing periods through July 25. The total 1997 North Shelikof Unit harvest for the time period July 6 through July 25 (based on post season fish ticket totals) included 1,938 chinook, 59,142 sockeye, 38,185 pink, 4,550 chum, and 1,840 coho salmon, with 80 vessels participating (Appendix F.2.and F.4.).

Appendix F.2. Summary of fishing time, zone closures, effort, and harvest by species, for management units affected by the North Shelikof Strait Sockeye Salmon Management Plan for the Kodiak Management Area, 1990 - 1997

North Shelikof Units (15,000 Sockeye Harvest Cap) ^{a/}														
YEAR	MAINLAND		N. AFOGNAK		Zone Closure		Sockeye Harvest at Time of Zone Closure	Number of Vessels	Total Harvest By Species July 6 through July 25					Upper Cook Inlet Sockeye Harvest
	# of days open to Fishing	# of days Seaward zone Closed	# of days open to fishing	# of days Seaward zone Closed	Date	Time			CHINOOK	SOCKEYE	COHO	PINK	CHUM	
1990	7.1	2.4	9.1	4.4	7/15	9pm	36,800	69	140	57,700	3,900	18,600	19,400	3.6 MILLION
1991	7.1	0	13.1	0	none	none	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	1pm	13,500	77	900	128,400	3,100	24,300	12,000	8.9 MILLION
1993	7.1	4.7	13.8	8.9	7/10	5pm	15,220	89	1,200	78,400	2,000	75,600	4,200	4.7 MILLION
1994	7.1	2.8	9.1	4.8	7/14	11am	22,830	58	165	38,800	2,400	52,000	10,500	3.5 MILLION
1995	7.1	3.3	13.3	8.5	7/13	10pm	15,770	77	150	37,400	1,260	178,800	16,590	2.9 MILLION
1996	7.1	4.3	7.1	4.3	7/15	10pm	11,675	77	260	73,720	1,820	30,050	14,590	3.9 MILLION
1997	7.1	4.9	10.1	7.9	7/8	5pm	19,850	80	1,940	59,140	1,840	38,190	4,550	4.1 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.

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Southwest Afognak Section (50,000 Sockeye Harvest Cap) ^{b/}														
YEAR	# of Days Open to Fishing	# of Days Seaward zone Closed	Zone Closure		Sockeye Harvest at Time of Zone Closure	Number of Vessels	Total Harvest By Species July 6 through July 25					Upper Cook Inlet Sockeye Harvest		
			Date	Time			CHINOOK	SOCKEYE	COHO	PINK	CHUM			
1990	9.1	0	none	none	n/a	64	300	22,900	3,600	53,800	6,000	3.6 MILLION		
1991	13.1	0	none	none	n/a	55	300	34,200	3,600	100,700	4,000	2.2 MILLION		
1992	9.1	4.7	7/14	1pm	48,200	84	300	50,600	600	30,000	6,800	8.9 MILLION		
1993	13.1	7.7	7/14	1pm	45,900	87	860	74,000	7,100	243,000	7,400	4.7 MILLION		
1994	9.1	0	none	none	n/a	45	360	13,600	1,000	64,300	3,100	3.5 MILLION		
1995	13.3	0	none	none	n/a	64	760	21,360	1,750	490,510	22,220	2.9 MILLION		
1996	7.1	0	none	none	n/a	32	185	10,510	800	79,210	10,790	3.9 MILLION		
1997	10.1	0	none	none	n/a	62	1,500	18,240	1,760	62,920	8,460	4.1 MILLION		

^{b/} In 1988, from 7/6 - 7/25, with 11.1 days open to fishing 86,000 sockeye were harvested in the "Southwest Afognak Unit". In Upper Cook Inlet 6,800,000 sockeye were harvested.

Appendix F.3. Daily salmon harvest by section and species for the Southwest Afognak management unit of the North Shelikof Strait
Sockeye Salmon Management Plan, 1997.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
<u>SOUTHWEST AFOGNAK SECTION</u>														
<u>FIRST PERIOD (7/6-7/9)</u>														
6-Jul	6	6	73	1,392	3,417	17,821	4	30	6,148	21,811	321	2,532	9,963	43,586
7-Jul	11	11	75	664	1,090	5,456	4	35	1,580	5,284	193	1,571	2,942	13,010
8-Jul	10	11	42	347	1,939	10,160	42	313	2,876	10,619	619	5,388	5,518	26,827
9-Jul	30	30	74	713	4,298	22,444	62	426	6,482	22,081	994	7,900	11,910	53,564
TOTAL	37	58	264	3,116	10,744	55,881	112	804	17,086	59,795	2,127	17,391	30,333	136,987
AVG.WT.				11.8		5.2		7.2		3.5		8.2		
<u>SECOND PERIOD (7/14-7/17)</u>														
14-Jul	*	*	0	0	210	905	10	70	790	2,685	76	605	1,086	4,265
15-Jul	4	4	164	1,314	1,051	5,258	55	401	5,234	18,343	671	5,281	7,175	30,597
16-Jul	*	*	0	0	216	1,299	7	47	1,293	4,528	120	725	1,636	6,599
17-Jul	*	*	10	85	192	830	2	18	992	3,026	74	489	1,270	4,448
TOTAL	8	9	174	1,399	1,669	8,292	74	536	8,309	28,582	941	7,100	11,167	45,909
AVG.WT.				8.0		5.0		7.2		3.4		7.6		
<u>THIRD PERIOD (7/21-7/24)</u>														
21-Jul	7	7	156	1,796	1,695	8,966	394	2,781	5,654	19,352	1,007	9,371	8,906	42,266
22-Jul	8	8	74	636	672	3,955	317	2,499	6,552	20,662	1,027	9,864	8,642	37,616
23-Jul	10	10	519	3,137	2,114	11,160	364	3,077	13,578	37,543	2,046	17,361	18,621	72,278
24-Jul	17	17	316	2,226	1,345	7,727	501	4,028	11,737	40,331	1,310	12,019	15,209	66,331
TOTAL	31	42	1,065	7,795	5,826	31,808	1,576	12,385	37,521	117,888	5,390	48,615	51,378	218,491
AVG.WT.				7.3		5.5		7.9		3.1		9.0		
<u>SOUTHWEST AFOGNAK MANAGEMENT UNIT, JULY 6-25</u>														
TOTALS	62	109	1,503	12,310	18,239	95,981	1,762	13,725	62,916	206,265	8,458	73,106	92,878	401,387
AVG.WT.				8.2		5.3		7.8		3.3		8.6		

Appendix F.4. Daily salmon harvest by section and species for the North Shelikof management units of the North Shelikof Strait
Sockeye Salmon Management Plan, 1997.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
<u>FIRST PERIOD (7/6-7/9)</u>														
NORTHWEST AFOGNAK SECTION														
6-Jul	4	4	38	300	925	4,848	5	45	906	2,866	71	590	1,945	8,649
7-Jul	*	*	36	243	1,038	4,884	3	24	411	1,536	29	248	1,517	6,935
8-Jul	*	*	7	50	198	1,156	0	0	265	807	45	505	515	2,518
9-Jul	*	*	0	0	395	2,174	0	0	830	2,753	27	198	1,252	5,125
TOTAL	7	10	81	593	2,556	13,062	8	69	2,412	7,962	172	1,541	5,229	23,227
AVG.WT.				7.3		5.1		8.6		3.3		9.0		
DAKAVAK BAY SECTION														
6-Jul	11	11	708	4,003	2,836	19,706	29	168	1,284	4,612	159	1,175	5,016	29,664
7-Jul	15	15	262	2,776	5,952	38,687	30	185	2,153	7,794	358	2,773	8,755	52,215
8-Jul	19	20	409	4,702	9,393	59,234	45	340	2,973	9,504	795	6,703	13,615	80,483
TOTAL	31	46	1,379	11,481	18,181	117,627	104	693	6,410	21,910	1,312	10,651	27,386	162,362
AVG.WT.				8.3		6.5		6.7		3.4		8.1		
<u>SECOND PERIOD (7/14-7/17)</u>														
DAKAVAK BAY SECTION														
14-Jul	9	9	72	581	4,160	24,973	61	484	1,992	6,664	227	1,716	6,512	34,418
15-Jul	7	8	48	392	2,700	15,463	47	322	2,217	7,222	177	1,344	5,189	24,743
16-Jul	26	26	295	2,992	14,581	78,779	291	1,918	6,139	18,580	618	5,236	21,924	107,505
TOTAL	36	43	415	3,965	21,441	119,215	399	2,724	10,348	32,466	1,022	8,296	33,625	166,666
AVG.WT.				9.6		5.6		6.8		3.1		8.1		
<u>THIRD PERIOD (7/21-7/24)</u>														
NORTHWEST AFOGNAK SECTION														
22-Jul	*	*	0	0	627	2,943	106	901	1,458	5,004	232	2,144	2,423	10,992
23-Jul	4	4	21	203	513	2,609	162	964	4,567	15,573	824	5,132	6,087	24,481
24-Jul	*	*	0	0	75	317	10	86	450	1,556	40	370	575	2,329
TOTAL	7	8	21	203	1,215	5,869	278	1,951	6,475	22,133	1,096	7,646	9,085	37,802
AVG.WT.				9.7		4.8		7.0		3.4		7.0		
HALLO BAY SECTION														
21-Jul	*	*	0	0	241	1,628	57	376	49	200	17	178	364	2,382
22-Jul	*	*	0	0	635	3,717	16	126	476	1,432	43	401	1,170	5,676
TOTAL	4	4	0	0	876	5,345	73	502	525	1,632	60	579	1,534	8,058
AVG.WT.				0.0		6.1		6.9		3.1		9.7		

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Appendix F.4. (page 2 of 2)

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
DAKAVAK BAY SECTION														
21-Jul	9	9	16	68	4,483	28,018	305	2,920	4,334	13,348	312	2,673	9,450	47,027
22-Jul	12	13	5	39	5,818	33,735	411	3,592	4,151	11,041	284	2,614	10,669	51,021
23-Jul	9	10	21	184	4,572	24,973	262	2,624	3,530	9,479	292	2,960	8,677	40,220
TOTAL	24	32	42	291	14,873	86,726	978	9,136	12,015	33,868	888	8,247	28,796	138,268
AVG.WT.				6.9		5.8		9.3		2.8		9.3		
NORTH SHELIKOF MANAGEMENT UNITS HARVEST, JULY 6-25, 1997														
6-Jul	15	15	746	4,303	3,761	24,554	34	213	2,190	7,478	230	1,765	6,961	38,313
7-Jul	18	18	298	3,019	6,990	43,571	33	209	2,564	9,330	387	3,021	10,272	59,150
8-Jul	20	21	416	4,752	9,591	60,390	45	340	3,238	10,311	840	7,208	14,130	83,001
9-Jul	*	*	0	0	395	2,174	0	0	830	2,753	27	198	1,252	5,125
14-Jul	9	9	72	581	4,160	24,973	61	484	1,992	6,664	227	1,716	6,512	34,418
15-Jul	7	8	48	392	2,700	15,463	47	322	2,217	7,222	177	1,344	5,189	24,743
16-Jul	26	26	295	2,992	14,581	78,779	291	1,918	6,139	18,580	618	5,236	21,924	107,505
21-Jul	10	10	16	68	4,724	29,646	362	3,296	4,383	13,548	329	2,851	9,814	49,409
22-Jul	18	19	5	39	7,080	40,395	533	4,619	6,085	17,477	559	5,159	14,262	67,689
23-Jul	13	14	42	387	5,085	27,582	424	3,588	8,097	25,052	1,116	8,092	14,764	64,701
24-Jul	*	*	0	0	75	317	10	86	450	1,556	40	370	575	2,329
TOTAL	80	143	1,938	16,533	59,142	347,844	1,840	15,075	38,185	119,971	4,550	36,960	105,655	536,383
AVG.WT.				8.5		5.9		8.2		3.1		8.1		

* = Confidential information.

INTRODUCTION

The eastside Afognak District (Appendix A.1) fishery is unique in the KMA. The Kitoi Bay Hatchery on the eastside of Afognak Island produces significant returns of pink and coho salmon. In 1990 the Board of Fisheries approved a regulatory management plan to govern the fisheries in the vicinity of the hatchery, the Eastside Afognak Management Plan (5AAC 18.365). This plan details the key species and targeted stocks which are managed in each of these section throughout the fishing season. Although occasionally modified, the plan has essentially 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 (ADF&G 1996).

Within the Southeast Afognak Section, the Afognak Lake system produces significant runs of sockeye, pink, and coho salmon. This system has been fertilized yearly, and has had sockeye salmon juveniles planted in the lake. Since 1994, large returns of sockeye have occurred to this system, with escapements surpassing the upper goals despite extended fishing time. Though no formal forecast is prepared for this system it was felt that the 1997 return could again be well in excess of escapement requirements. From June 9 to July 5 management is based on the sockeye salmon returning to the Afognak Lake system. The initial opening for this system is normally scheduled for the time of the second 33 hour "commercial test fishery", on June 14. However, in the 1997 Harvest Strategy (Prokopowich et al. 1997) it was stated that this section might open as early as June 9, depending on sockeye escapement and build up.

The fisheries associated with the Kitoi Bay Hatchery mainly target pink salmon. However, Kitoi Bay Hatchery also produces early chum and sockeye, and late returns of sockeye and coho. The management unit closest to the hatchery, the Kitoi Bay Section, is normally closed to allow buildup and collection of fish for hatchery broodstock. The initial openings in July for pink salmon fisheries around Kitoi are scheduled to coincide with general KMA pink salmon fisheries. Early July fisheries may be allowed if broodstock requirements are met for early chum and sockeye salmon, and fisheries may be limited from late July to late August until pink salmon broodstock requirements are met. In the 1997 Harvest Strategy (Prokopowich et al. 1997) it was stated that an opening in the Duck Bay, Izhut Bay, and the normally closed Kitoi Bay Section would be allowed June 9 to harvest a forecasted early return of sockeye salmon. Also, the initial opening of the Kitoi Bay Section during pink salmon fisheries was listed as July 28, the time of the fourth general opening, if it appeared broodstock requirements were being met.

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1997 East Afognak Fisheries

A total of 84 commercial salmon landings were made from the Southeast Afognak Section in 1997, with the first was made on June 15 and the final landing made on August 9. During that time 43 permit holders harvested 64 chinook, 20,195 sockeye, 96,000 pink, 4,415 chum, and 1,423 coho salmon (Appendix G.2.).

The final estimated salmon harvest from fisheries associated with the Kitoi Bay Hatchery, in the Duck Bay, Izhut Bay, and Kitoi Bay Sections, was 127 chinook, 50,115 sockeye, 1,213,615 pink, 11,029 chum, and 110,344 coho salmon (Appendix G.3.).

Appendix G.2. Daily salmon harvest, by species, for the Southeast Afognak Section management unit of the East Afognak Management Plan, 1997.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SOUTHEAST AFOGNAK SECTION														
15-Jun	*	*	0	0	925	4,161	0	0	0	0	0	0	925	4,161
22-Jun	*	*	0	0	207	837	0	0	0	0	0	0	207	837
24-Jun	4	4	1	22	1,542	6,256	0	0	8	21	3	18	1,554	6,317
25-Jun	5	5	3	52	863	3,821	1	7	46	142	65	457	978	4,479
26-Jun	8	8	6	67	2,802	11,054	0	0	225	453	150	908	3,183	12,482
27-Jun	6	6	0	0	532	2,456	0	0	18	38	0	0	550	2,494
28-Jun	6	6	0	0	941	3,672	0	0	8	25	1	9	950	3,706
29-Jun	5	5	0	0	723	3,030	0	0	31	115	13	94	767	3,239
30-Jun	*	*	0	0	324	1,293	0	0	3	12	0	0	327	1,305
1-Jul	*	*	0	0	333	1,336	0	0	4	12	0	0	337	1,348
2-Jul	5	5	8	76	1,197	5,267	15	111	713	1,938	317	2,115	2,250	9,507
3-Jul	5	5	20	199	3,026	14,182	86	630	2,642	7,555	965	7,203	6,739	29,769
4-Jul	*	*	2	13	1,391	6,137	41	305	1,041	3,123	440	2,818	2,915	12,396
6-Jul	*	*	15	110	846	4,234	65	457	1,293	3,880	583	4,083	2,802	12,764
9-Jul	*	*	3	60	1,435	7,243	12	126	254	765	57	447	1,761	8,641
15-Jul	*	*	0	0	786	4,096	177	1,426	1,318	4,712	366	3,731	2,647	13,965
16-Jul	*	*	0	0	50	231	21	130	84	387	50	442	205	1,190
17-Jul	4	4	3	15	924	5,008	261	1,768	2,068	6,311	937	6,405	4,193	19,507
22-Jul	*	*	0	0	880	3,517	7	55	401	1,203	33	198	1,321	4,973
23-Jul	*	*	1	39	93	470	76	536	1,828	5,598	89	654	2,087	7,297
24-Jul	*	*	0	0	60	303	28	226	899	3,096	86	787	1,073	4,412
7-Aug	*	*	1	10	9	35	14	111	6,773	20,320	7	40	6,804	20,516
8-Aug	6	6	0	0	81	428	172	1,247	28,128	86,671	67	503	28,448	88,849
9-Aug	8	8	1	42	225	1,102	447	3,227	48,215	145,685	186	1,257	49,074	151,313
TOTAL	43	62	64	705	20,195	90,169	1,423	10,362	96,000	292,062	4,415	32,169	122,097	425,467
Average Weight				11.0		4.5		7.3		3.0		7.3		

* = Confidential information.

Appendix G.3. Daily salmon harvest, by section and species, for the Izhut, Duck, and Kitoi Bay Section management units of the East Afognak Management Plan, 1997.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
IZHUT BAY SECTION															
21-Jul	*	*	0	0	130	624	0	0	17	57	119	940	266	1,621	
22-Jul	*	*	0	0	658	2,633	5	47	669	2,008	64	388	1,396	5,076	
23-Jul	*	*	0	0	122	602	20	151	933	3,212	33	249	1,108	4,214	
24-Jul	7	7	23	190	1,447	6,328	94	720	8,009	25,479	350	2,481	9,923	35,198	
7-Aug	8	8	0	0	177	964	298	2,196	34,101	103,871	27	193	34,603	107,224	
8-Aug	7	7	0	0	234	1,012	539	4,556	27,558	90,249	98	709	28,429	96,526	
13-Aug	11	12	0	0	225	1,051	566	4,306	18,910	58,973	98	758	19,799	65,088	
14-Aug	14	14	1	12	404	1,729	1,144	8,663	26,921	91,269	137	846	28,607	102,519	
15-Aug	6	6	2	25	202	953	922	6,773	12,591	40,452	23	152	13,740	48,355	
16-Aug	9	10	0	0	503	1,970	2,525	19,366	31,733	98,622	17	107	34,778	120,065	
19-Aug	6	6	0	0	236	924	1,176	10,439	7,456	22,370	15	104	8,883	33,837	
20-Aug	7	7	0	0	93	413	597	5,178	4,478	14,244	0	0	5,168	19,835	
21-Aug	6	6	0	0	44	160	466	4,028	2,605	7,831	0	0	3,115	12,019	
22-Aug	11	13	0	0	227	1,069	2,891	23,873	11,395	40,117	10	65	14,523	65,124	
23-Aug	9	9	0	0	141	668	2,331	19,954	21,971	63,025	4	31	24,447	83,678	
24-Aug	6	6	0	0	130	507	1,533	13,387	2,892	9,751	11	87	4,566	23,732	
25-Aug	8	8	0	0	179	712	4,425	32,118	4,857	16,465	1	5	9,462	49,300	
26-Aug	8	8	0	0	111	423	3,276	26,662	2,504	8,850	16	113	5,907	36,048	
27-Aug	9	9	0	0	42	128	1,080	10,018	1,723	5,999	0	0	2,845	16,145	
28-Aug	4	4	0	0	45	210	1,745	10,882	2,420	8,597	0	0	4,210	19,689	
29-Aug	7	7	0	0	33	99	1,587	15,641	717	2,354	1	8	2,338	18,102	
30-Aug	9	9	0	0	34	128	2,155	18,850	3,419	11,858	1	8	5,609	30,844	
31-Aug	11	11	0	0	44	166	3,489	29,225	1,501	4,697	2	13	5,036	34,101	
1-Sep	11	11	0	0	35	132	3,032	25,286	1,381	4,168	0	0	4,448	29,586	
2-Sep	*	*	0	0	16	81	375	2,755	0	0	0	0	391	2,836	
3-Sep	4	4	0	0	80	275	1,396	11,696	1,404	4,635	2	14	2,882	16,620	
4-Sep	5	5	0	0	49	215	2,931	22,132	166	600	0	0	3,146	22,947	
5-Sep	*	*	0	0	0	0	599	4,349	0	0	0	0	599	4,349	
7-Sep	*	*	0	0	58	164	1,566	14,693	0	0	0	0	1,624	14,857	
8-Sep	*	*	0	0	27	89	1,416	13,732	616	2,107	1	9	2,060	15,937	
9-Sep	*	*	0	0	21	72	1,950	16,427	0	0	0	0	1,971	16,499	
10-Sep	*	*	0	0	0	0	1,065	7,990	0	0	0	0	1,065	7,990	
11-Sep	*	*	0	0	22	61	1,828	14,462	0	0	0	0	1,850	14,523	
13-Sep	*	*	0	0	5	23	1,930	12,591	0	0	2	16	1,937	12,630	
14-Sep	*	*	0	0	0	0	657	5,125	0	0	0	0	657	5,125	
TOTAL	80	207	26	227	5,774	24,585	51,609	418,271	232,947	741,860	1,032	7,296	291,388	1,192,239	
Average Weight				8.7		4.3		8.1		3.2		7.1			

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Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
DUCK BAY SECTION														
15-Jul	*	*	1	7	90	452	9	64	310	932	61	427	471	1,882
16-Jul	*	*	6	67	1,016	5,075	249	1,756	1,965	5,237	612	4,380	3,848	16,515
17-Jul	8	8	13	128	2,074	11,291	694	4,780	4,495	14,909	1,806	14,230	9,082	45,338
22-Jul	10	11	4	27	1,223	5,815	298	2,551	9,499	33,648	476	3,942	11,500	45,983
23-Jul	14	15	1	42	4,466	21,097	669	4,969	18,475	64,972	1,615	10,586	25,226	101,666
24-Jul	16	16	5	71	1,779	8,852	294	2,289	14,901	50,004	512	4,230	17,491	65,446
1-Aug	*	*	3	36	51	274	93	701	2,926	10,244	50	401	3,123	11,656
2-Aug	4	4	4	44	146	783	318	2,404	12,498	43,750	169	1,362	13,135	48,343
3-Aug	6	6	4	39	278	1,488	669	5,040	25,983	90,950	338	2,727	27,272	100,244
4-Aug	8	8	3	31	188	1,010	796	5,996	33,512	117,305	330	2,669	34,829	127,011
5-Aug	4	4	0	0	63	344	161	1,217	10,707	37,479	71	584	11,002	39,624
6-Aug	*	*	0	0	12	66	29	218	2,207	7,726	10	84	2,258	8,094
7-Aug	6	6	1	28	139	774	393	2,969	27,869	90,527	79	638	28,481	94,936
8-Aug	16	17	1	18	393	2,057	667	5,035	79,196	252,562	114	954	80,371	260,626
13-Aug	*	*	0	0	53	219	142	1,265	6,278	26,215	17	121	6,490	27,820
14-Aug	14	14	7	83	400	1,945	1,596	11,273	43,341	139,190	480	3,595	45,824	156,086
15-Aug	12	12	8	106	748	3,828	2,147	15,625	46,003	140,436	287	2,030	49,193	162,025
16-Aug	10	11	1	7	485	2,253	3,258	23,521	37,359	115,058	116	797	41,219	141,636
19-Aug	8	8	1	37	118	510	1,627	12,569	8,401	26,182	3	20	10,150	39,318
20-Aug	13	14	1	18	231	1,128	3,115	25,612	23,520	76,763	42	308	26,909	103,829
21-Aug	14	14	1	33	422	1,789	5,104	37,453	31,836	95,623	37	258	37,400	135,156
22-Aug	*	*	0	0	93	320	624	5,117	6,092	19,237	2	6	6,811	24,680
23-Aug	6	6	0	0	195	805	2,374	17,781	13,558	42,510	18	127	16,145	61,223
24-Aug	6	6	0	0	173	709	2,566	21,244	14,586	44,943	10	75	17,335	66,971
25-Aug	8	8	1	14	429	1,763	4,460	36,236	17,952	57,892	65	466	22,907	96,371
26-Aug	8	8	1	25	243	990	3,998	34,326	16,495	53,680	70	446	20,807	89,467
27-Aug	9	9	0	0	246	1,047	4,507	33,918	18,650	58,237	70	488	23,473	93,690
28-Aug	14	16	0	0	189	831	4,229	35,131	19,243	61,382	22	152	23,683	97,496
29-Aug	5	5	0	0	31	136	359	3,638	1,211	3,806	7	40	1,608	7,620
30-Aug	9	9	3	24	73	293	2,522	20,824	6,934	21,673	7	40	9,539	42,854
31-Aug	*	*	0	0	21	108	1,384	9,698	1,578	4,737	2	17	2,985	14,560
1-Sep	*	*	0	0	3	9	575	4,603	413	1,241	0	0	991	5,853
2-Sep	*	*	0	0	2	8	108	867	215	646	0	0	325	1,521
5-Sep	*	*	0	0	13	42	1,325	10,700	1,118	3,087	0	0	2,456	13,829
7-Sep	*	*	0	0	14	52	557	5,443	0	0	0	0	571	5,495
9-Sep	*	*	0	0	0	0	583	4,376	0	0	0	0	583	4,376
10-Sep	*	*	0	0	6	35	226	1,702	0	0	0	0	232	1,737
15-Sep	*	*	0	0	0	0	70	531	0	0	0	0	70	531
TOTAL	96	258	70	885	16,106	78,198	52,795	413,442	559,326	1,812,783	7,498	56,200	635,795	2,361,508
Average Weight				12.6		4.9		7.8		3.2		7.5		

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Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
KITOI BAY SECTION														
16-Jun	*	*	0	0	842	4,212	0	0	0	0	0	0	842	4,212
21-Jul	24	24	31	304	18,757	81,360	278	2,205	10,448	19,854	2,015	15,491	31,529	119,214
29-Jul	*	*	0	0	111	678	0	0	6,663	26,527	0	0	6,774	27,205
30-Jul	5	5	0	0	1,699	8,407	0	0	36,327	105,860	4	28	38,030	114,295
31-Jul	4	5	0	0	1,105	5,403	43	300	11,233	37,433	41	300	12,422	43,436
1-Aug	5	5	0	0	825	4,324	5	40	16,630	57,484	33	256	17,493	62,104
2-Aug	15	15	0	0	1,799	9,389	100	719	58,555	204,969	161	1,292	60,615	216,369
3-Aug	12	12	0	0	833	3,781	8	67	44,587	151,244	64	485	45,492	155,577
4-Aug	16	19	0	0	946	5,066	49	384	70,404	244,782	58	500	71,457	250,732
5-Aug	*	*	0	0	81	435	1	7	9,012	31,546	12	93	9,106	32,081
6-Aug	*	*	0	0	69	376	3	21	8,581	30,040	2	23	8,655	30,460
7-Aug	10	10	0	0	279	1,341	154	1,181	39,982	127,351	12	111	40,427	129,984
8-Aug	14	17	0	0	473	2,027	131	972	58,592	177,679	34	247	59,230	180,925
22-Aug	*	*	0	0	33	116	201	2,409	5,943	20,802	0	0	6,177	23,327
23-Aug	*	*	0	0	55	278	974	7,128	13,691	38,708	63	457	14,783	46,571
29-Aug	5	5	0	0	40	140	1,129	10,964	4,653	15,180	0	0	5,822	26,284
30-Aug	*	*	0	0	272	1,375	976	6,834	25,589	63,965	0	0	26,837	72,174
31-Aug	*	*	0	0	4	12	279	2,588	400	1,283	0	0	683	3,883
1-Sep	*	*	0	0	3	9	7	64	52	191	0	0	62	264
2-Sep	*	*	0	0	0	0	286	2,152	0	0	0	0	286	2,152
9-Sep	*	*	0	0	9	48	1,017	7,120	0	0	0	0	1,026	7,168
19-Sep	*	*	0	0	0	0	299	2,336	0	0	0	0	299	2,336
TOTAL	62	138	31	304	28,235	128,777	5,940	47,491	421,342	1,354,898	2,499	19,283	458,047	1,550,753
Average Weight				9.8		4.6		8.0		3.2		7.7		
KITOI HATCHERY SALMON HARVEST														
TOTAL		603	127	1,416	50,115	231,560	110,344	879,204	1,213,615	3,909,541	11,029	82,779	1,385,230	5,104,500
Average Weight				11.1		4.6		8.0		3.2		7.5		

INTRODUCTION

Within the Northwest Kodiak District, sockeye salmon fry have been stocked into Spiridon Lake since 1989 (Appendix A.3). The return of adult salmon to the lake is prevented by a large set of barrier falls in the river. There is no suitable spawning habitat for sockeye salmon in Telrod Cove (the cove into which Spiridon Lake drains). The Spiridon Lake salmon stocking is a put-and-take project, with the intent of harvesting returning sockeye salmon in the existing fisheries along Kodiak's westside. The Spiridon Lake Sockeye Salmon Management Plan (5AAC 18.366) was adopted by the Board of Fisheries in January of 1993, and slight modifications were made by the BOF in 1995. 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. This plan provides for a terminal harvest area and a strategy to harvest sockeye salmon which may escape the fishery and return to the river mouth (ADF&G 1996).

1997 Spiridon Bound Sockeye Salmon Fisheries

A significant return of approximately 164,000 sockeye salmon was expected in 1997 (Table 6.). Sockeye salmon stocked into Spiridon Lake were from the late run Upper Station (Olga Lakes) stock, and the timing of the return was supposed to coincide with the pink salmon and late sockeye salmon fisheries in the Northwest Kodiak District. Peak harvest timing was expected to be mid August, based on past timing. It was hoped the majority of the returning sockeye would be harvested in the Central Section of the Northwest Kodiak District during the planned general pink salmon fisheries occurring along Kodiak's westside, or during fisheries targeting late run Karluk sockeye salmon. If there was a harvestable surplus within the terminal harvest area, fishing periods were to be 24 hours per day, coordinated when possible with openings in the Northwest Kodiak District.

During early to mid July there were no special openings in the Spiridon Lake Terminal Harvest Area (THA). Weekly openings were allowed along the westside of Kodiak and Afognak Islands, to harvest pink salmon. Because of the seemingly poor pink salmon run, in late July these fishing periods were reduced to from 4 ½ days to 2 ½ days per week. The long closed period each week allowed Spiridon sockeye to bypass the traditional fishing areas along the westside. ADF&G employee's stationed in Spiridon Bay surveyed the bay daily. Surveys were conducted from a skiff to assess the presence of enhancement project sockeye which escaped the traditional commercial fishery areas. By the third week of July the ADF&G crew stationed in Spiridon Bay reported enhancement project sockeye salmon were building up within Telrod Cove.

On July 29 the Spiridon Lake THA in Telrod Cove was opened until further notice to allow harvest of enhancement project sockeye salmon, and remained open until September 16. From ADF&G Fish Ticket reports, 31 seiners were shown to have harvested 2 chinook, 64,483 sockeye, 52,293 pink,

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578 chum, and 2,892 coho salmon from the Spiridon Terminal Harvest Area (Appendix H.2.). Additional catches may have been delivered and reported in other areas. Also, many seine and gillnet fishers operated along the westside of Kodiak in traditional fishing areas during fisheries directed at westside pink and chum, and late run Karluk sockeye salmon, and caught some Spiridon bound sockeye salmon. An analysis of commercial catch samples from westside Kodiak fisheries was conducted to determine the total contribution of Spiridon enhancement project sockeye salmon (Nelson 1999) The post season estimate of the Spiridon contribution to westside fisheries in Southwest Afognak, Uganik, and Uyak, was 80,763 sockeye salmon. The total estimated 1997 harvest of Spiridon enhancement project sockeye salmon was 145,245, with approximately 44.4% (64,483) harvested within the terminal harvest area, 30.2% (43,918) harvested in the Uyak area, 23.1% (33,497) harvested in the Uganik area, and 2.3% (3,348) harvested in the Southwest Afognak area (Appendix H.3.). These are considered minimum estimates.

Appendix H.2. Daily salmon harvest, by species and gear type, for the Spiridon Lake Terminal Harvest Area, 1997.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
PURSE SEINE														
29-Jul	7	8	0	0	2,117	11,083	4	23	4,512	14,807	25	243	6,658	26,156
30-Jul	*	*	0	0	130	711	1	7	175	598	0	0	306	1,316
7-Aug	*	*	0	0	347	1,740	0	0	713	2,498	7	60	1,067	4,298
8-Aug	*	*	0	0	532	2,667	0	0	1,895	7,105	8	78	2,435	9,850
9-Aug	4	4	1	35	437	2,194	25	176	4,371	13,118	110	776	4,944	16,299
10-Aug	4	4	0	0	445	2,321	0	0	2,459	8,175	111	1,017	3,015	11,513
11-Aug	*	*	0	0	350	1,750	0	0	1,033	3,099	8	56	1,391	4,905
12-Aug	4	4	0	0	1,350	7,000	3	28	3,330	11,173	191	1,888	4,874	20,089
13-Aug	*	*	0	0	108	488	0	0	550	1,835	8	64	666	2,387
14-Aug	*	*	0	0	778	3,893	0	0	1,357	4,074	16	119	2,151	8,086
15-Aug	*	*	0	0	391	1,957	0	0	484	1,453	1	7	876	3,417
16-Aug	*	*	0	0	1,351	6,761	1	10	1,361	4,085	5	36	2,718	10,892
17-Aug	*	*	0	0	1,896	9,485	0	0	481	1,445	1	6	2,378	10,936
18-Aug	4	5	0	0	1,918	9,596	1	10	2,931	8,796	4	30	4,854	18,432
19-Aug	4	4	0	0	1,927	9,638	2	13	1,758	5,712	1	7	3,688	15,370
20-Aug	4	4	0	0	829	4,365	10	69	1,541	4,653	3	21	2,383	9,108
21-Aug	8	8	0	0	2,788	14,174	19	142	4,847	14,545	9	70	7,663	28,931
22-Aug	5	5	0	0	1,820	8,875	38	276	2,466	8,046	2	19	4,326	17,216
23-Aug	*	*	0	0	763	3,820	80	570	1,213	3,643	1	7	2,057	8,040
24-Aug	*	*	0	0	477	2,388	17	122	464	1,393	1	7	959	3,910
25-Aug	*	*	0	0	1,960	9,805	41	292	3,510	10,532	4	27	5,515	20,656
26-Aug	*	*	0	0	561	2,814	2	21	736	2,210	1	10	1,300	5,055
27-Aug	5	5	1	12	1,934	9,680	67	484	1,356	4,077	1	5	3,359	14,258
28-Aug	4	4	0	0	1,634	8,177	91	638	1,163	3,492	0	0	2,888	12,307
29-Aug	6	6	0	0	3,610	18,064	256	1,802	3,415	10,254	5	35	7,286	30,155
30-Aug	5	5	0	0	1,756	8,793	30	221	1,153	3,462	2	14	2,941	12,490
31-Aug	6	6	0	0	4,861	24,309	73	522	1,349	4,050	0	0	6,283	28,881
1-Sep	6	6	0	0	3,024	15,129	378	2,657	0	0	4	29	3,406	17,815
2-Sep	5	5	0	0	2,163	10,822	391	2,747	0	0	0	0	2,554	13,569
3-Sep	*	*	0	0	1,715	8,428	17	189	0	0	0	0	1,732	8,617
4-Sep	*	*	0	0	1,854	9,296	33	391	0	0	0	0	1,887	9,687
5-Sep	*	*	0	0	509	2,535	13	137	0	0	0	0	522	2,672
6-Sep	*	*	0	0	1,905	9,486	290	3,319	0	0	0	0	2,195	12,805

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Appendix H.2. (page 2 of 2)

Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
PURSE SEINE															
7-Sep	7	7	0	0	4,063	17,818	192	1,846	0	0	1	9	4,256	19,673	
8-Sep	*	*	0	0	2,453	9,809	0	0	0	0	0	0	2,453	9,809	
9-Sep	*	4	0	0	1,928	9,604	68	741	0	0	2	15	1,998	10,360	
10-Sep	*	*	0	0	99	499	1	13	0	0	0	0	100	512	
11-Sep	*	*	0	0	2,363	12,528	257	1,933	0	0	5	47	2,625	14,508	
12-Sep	*	*	0	0	1,080	4,324	44	351	0	0	0	0	1,124	4,675	
16-Sep	*	*	0	0	3,174	15,017	447	3,796	176	619	0	0	3,797	19,432	
TOTAL	30	129	2	47	63,400	311,843	2,892	23,546	50,799	158,949	537	4,702	117,630	499,087	
Average Weight -				23.5		4.9		8.1		3.1		8.8			
BEACH SEINE															
11-Aug	*	*	0	0	545	2,807	0	0	975	3,250	35	323	1,555	6,380	
16-Aug	*	*	0	0	538	2,691	0	0	465	1,397	6	47	1,009	4,135	
TOTAL	*	*	0	0	1,083	5,498	0	0	1,440	4,647	41	370	2,564	10,515	
Average Weight -				-		5.1		-		3.2		9.0			
ALL GEAR															
TOTAL		131	2	47	64,483	317,341	2,892	23,546	52,239	163,596	578	5,072	120,194	509,602	
Average Weight -				23.5		4.9		8.1		3.1		8.8			

* = Confidential information.

Appendix H.3. Estimated commercial harvest of Spiridon Lake enhancement project sockeye salmon, by area, by week, in the Kodiak Management Area, 1997 (data from Nelson 1999).

Date	Southwest Afognak ^a	Uganik Bay Complex ^b	Uyak Bay Complex ^c	Telrod Cove ^d	WESTSIDE TOTAL
7/12 - 7/18	0	0	0	0	0
7/19 - 7/25	815	6,630	4,656	0	12,101
7/26 - 8/01	0	2,539	3,758	2,247	8,544
8/02 - 8/08	93	4,640	6,146	879	11,758
8/09 - 8/15	1,017	6,019	9,912	4,404	21,352
8/16 - 8/22	1,423	8,282	12,785	13,067	35,557
8/23 - 8/29	0	5,387	6,661	10,939	22,987
8/30 - 9/05	0	0	0	15,882	15,882
9/06 - 9/12	0	0	0	13,891	13,891
9/13 - 9/19	0	0	0	3,174	3,174
TOTAL	3,348	33,497	43,918	64,483	145,245
Percent	2.3%	23.1%	30.2%	44.4%	

^a Statistical Area 251-10 and 251-20.

^b Statistical Area 253-11 through 253-35.

^c Statistical Area 254-10 through 254-40.

^d Statistical Area 254-50.

INTRODUCTION

The streams of the eastside of Kodiak Island support sockeye, pink, chum, and coho salmon runs. Plus, mixed stocks of salmon, moving toward their natal streams after feeding in the Gulf of Alaska and North Pacific, pass along the east side of the Kodiak Island Archipelago. Salmon fisheries along Kodiak Island's east side are likely as old as human habitation. Many native villages and the first Russian settlements were located on the eastside of Kodiak Island, and both the City of Kodiak and the village of Old Harbor are still there. Though no regulatory management plan was in effect, the commercial fisheries of the area followed a framework developed by fishery managers beginning in the early 1970s, with this harvest strategy remaining basically unchanged after the mid 1980s. In November of 1995 the Board of Fisheries put the Eastside Kodiak Salmon Management Plan (5AAC 18.367) into regulation, governing the commercial salmon fisheries of the Eastside Kodiak and Northeast Kodiak Districts. The goal of this plan is to achieve escapement and harvest objectives for sockeye, pink, chum, and coho salmon returning to spawning systems located in the Northeast Kodiak and Eastside Kodiak Districts (Appendices A.4 and A.5). This plan details the key species and targeted stocks which are managed in each of these sections throughout the fishing season (ADF&G 1996). This plan was first in effect during the 1996 season.

For the Northeast Kodiak District, all sections are to remain closed to commercial salmon fishing until July 6, when the general pink salmon fishery begins for most of the KMA. Fishing opportunities through August 24 are to be based on the abundance of local and mixed pink and chum salmon, except that in the Buskin River Section from July 6 to 10 fishing may be allowed based on local pink and Buskin River (stream # 259-211) sockeye salmon. From August 25 to September 5, fishing periods are based on the abundance of local pink and coho salmon, and after September 5, on local coho salmon.

For the Eastside Kodiak District, in the southern sections, the Seven Rivers, Two Headed, and Sitkalidak Sections, not more than two 33 hour fishing periods may occur from June 14 to July 5, to harvest local and mixed sockeye salmon. In the Inner and Outer Ugak Bay Sections not more than two 33 hour fishing periods may occur from June 14 to June 22, to harvest local and mixed sockeye salmon, then from June 23 to July 5 fishing opportunities are to be based on sockeye salmon bound to either the Pasagshak River (stream # 259-411) in Outer Ugak or the Saltery River (stream # 259-415) in Inner Ugak. From July 6 through August 24 fishing opportunities in all sections is to be based on the abundance of local and mixed pink and chum salmon, except that in Inner Ugak Saltery sockeye salmon must be considered through July 10. From August 25 to September 5 fishing periods are based on the abundance of local pink, chum, and coho salmon, and after September 5 on local coho salmon.

As mentioned, within the Buskin River Section of the Northeast Kodiak District, the Buskin Lake system produces a significant run of sockeye salmon. Within the Inner Ugak Section of the Eastside Kodiak District the Saltery Lake system also produces a significant run of sockeye salmon.

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Both these systems are weired for accurate escapement enumeration. Other minor sockeye systems are present in the Eastside Kodiak District, including Pasagshak, Miam (stream # 259-412), and Ocean Beach (stream # 258-401).

1997 Eastside Kodiak Fisheries

Commercial salmon fishery landings from Eastside Kodiak management units in 1997 began on June 23, with the last landing occurring on September 12 (Appendix I.2.) The total commercial harvest from Eastside Kodiak management units (Northeast and Eastside Kodiak Districts) was 1,639,240 salmon, including 2,309 chinook, 63,729 sockeye, 74,710 coho, 1,334,167 pink, and 164,325 chum salmon from 619 landings.

Appendix I. 2. Daily commercial salmon harvest, by species, for Eastside Kodiak Management Plan units, 1997.

Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
NORTHEAST KODIAK DISTRICT														
6-Jul	*	*	12	216	250	1,304	16	114	211	740	782	6,258	1,271	8,632
7-Jul	*	*	2	21	152	607	16	125	158	473	92	552	420	1,778
8-Jul	*	*	0	0	128	644	5	29	91	273	49	272	273	1,218
14-Jul	*	*	4	42	451	2,690	245	1,718	162	568	537	4,567	1,399	9,585
15-Jul	12	12	227	1,878	4,181	20,574	3,410	22,684	3,179	9,927	10,662	72,358	21,659	127,421
16-Jul	5	6	162	1,254	1,263	5,213	1,010	7,810	1,372	4,128	8,209	52,376	12,016	70,781
17-Jul	9	9	163	1,107	1,336	7,532	1,492	10,919	2,537	7,633	5,925	45,247	11,453	72,438
22-Jul	*	*	0	0	146	587	106	773	810	2,742	151	1,047	1,213	5,149
24-Jul	12	12	16	164	275	1,397	218	1,682	6,984	24,112	2,181	15,124	9,674	42,479
8-Aug	*	*	8	101	7	27	244	1,948	4,050	12,418	687	4,869	4,996	19,363
19-Aug	*	*	5	80	12	55	108	1,216	1,715	5,832	9	62	1,849	7,245
21-Aug	*	*	9	127	17	69	432	3,459	4,490	14,123	89	631	5,037	18,409
22-Aug	*	*	1	33	6	25	85	652	524	1,752	2	17	618	2,479
23-Aug	*	*	10	241	1	6	137	961	317	951	142	999	607	3,158
24-Aug	*	*	1	17	1	5	58	411	457	1,373	10	76	527	1,882
25-Aug	*	*	2	38	25	114	403	2,496	4,814	16,679	210	1,477	5,454	20,804
10-Sep	*	*	0	0	0	0	635	5,033	0	0	0	0	635	5,033
11-Sep	*	*	0	0	0	0	1,308	9,975	0	0	0	0	1,308	9,975
12-Sep	5	5	1	16	1	7	5,411	38,356	0	0	4	31	5,417	38,410
TOTAL	40	70	623	5,335	8,252	40,856	15,339	110,361	31,871	103,724	29,741	205,963	85,826	466,239
Average Weight -				8.6		5.0		7.2		3.3		6.9		
EASTSIDE KODIAK DISTRICT														
23-Jun	*	*	1	14	912	5,742	0	0	336	1,172	206	1,798	1,455	8,726
6-Jul	33	33	232	2,646	8,687	51,532	2,009	13,858	4,026	15,291	1,599	12,453	16,553	95,780
7-Jul	33	34	288	2,600	8,181	50,279	2,497	17,111	3,623	12,385	1,910	14,287	16,499	96,662
8-Jul	24	24	107	1,280	4,140	24,549	1,718	12,276	1,279	4,870	915	6,866	8,159	49,841
9-Jul	27	27	76	1,172	7,124	41,699	2,396	17,396	2,511	8,705	1,399	11,348	13,506	80,320
14-Jul	22	23	258	2,504	7,354	45,651	8,439	60,982	3,434	12,270	9,062	72,087	28,547	193,494
15-Jul	25	28	294	4,230	8,857	49,056	10,834	72,079	5,189	17,249	7,503	57,402	32,677	200,016
16-Jul	11	11	136	1,034	2,436	15,797	3,814	28,531	1,414	4,884	3,686	30,339	11,486	80,585
17-Jul	11	11	48	512	1,349	7,548	507	3,793	1,737	6,284	986	6,720	4,627	24,857
21-Jul	11	11	34	341	703	3,732	2,942	20,628	3,628	12,466	1,047	8,490	8,354	45,657
22-Jul	13	13	28	352	621	3,319	1,756	14,752	3,650	13,637	495	4,227	6,550	36,287
23-Jul	5	5	40	593	367	1,957	930	6,871	3,697	15,471	577	5,429	5,611	30,321
24-Jul	11	11	27	270	473	2,420	1,662	15,113	7,812	28,905	654	6,361	10,628	53,069
6-Aug	*	*	0	0	1	9	1	9	3,850	15,990	8	73	3,860	16,081
7-Aug	8	9	0	0	230	1,077	82	693	48,757	170,317	3,979	38,733	53,048	210,820
8-Aug	15	17	2	57	491	2,739	263	2,279	62,444	213,027	7,961	63,980	71,161	282,082
9-Aug	*	*	2	26	89	357	128	961	9,250	32,375	430	3,438	9,899	37,157

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Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
EASTSIDE KODIAK DISTRICT (Cont.)														
12-Aug	19	19	6	80	154	702	406	2,939	67,732	227,859	4,689	45,319	72,987	276,899
13-Aug	15	15	7	86	56	275	802	7,320	53,506	190,792	4,796	38,054	59,167	236,527
14-Aug	20	20	16	201	134	681	480	4,577	60,452	203,193	7,612	66,858	68,694	275,510
15-Aug	18	18	18	188	258	1,287	1,347	11,718	74,511	243,148	7,259	55,949	83,393	312,290
16-Aug	13	15	5	62	209	1,043	572	4,821	41,211	152,189	5,214	38,502	47,211	196,617
17-Aug	22	22	16	197	309	1,483	1,846	14,524	113,639	405,822	5,178	46,755	120,988	468,781
18-Aug	22	23	13	137	346	1,787	1,523	11,982	112,598	352,310	5,215	39,403	119,695	405,619
19-Aug	23	24	20	213	236	1,198	1,101	8,984	89,838	292,047	12,481	89,139	103,676	391,581
20-Aug	21	24	2	59	375	1,874	579	5,112	80,471	285,060	4,985	41,687	86,412	333,792
21-Aug	16	16	1	21	168	826	1,105	7,679	52,607	182,248	2,542	22,501	56,423	213,275
22-Aug	13	14	0	0	133	725	587	5,850	50,992	178,653	3,571	29,220	55,283	214,448
23-Aug	10	12	3	71	65	281	538	5,173	24,340	79,313	17,776	141,426	42,722	226,264
24-Aug	9	11	1	18	69	367	1,510	12,908	37,785	129,051	2,930	20,814	42,295	163,158
25-Aug	10	12	0	0	257	1,292	1,165	9,544	52,170	192,480	1,394	12,999	54,986	216,315
26-Aug	7	8	0	0	200	972	1,112	8,882	51,109	180,296	1,851	15,997	54,272	206,147
27-Aug	8	10	0	0	143	716	792	5,788	50,508	161,237	1,003	7,558	52,446	175,299
28-Aug	9	11	0	0	179	829	1,092	10,111	60,265	202,990	1,933	15,511	63,469	229,441
29-Aug	10	10	4	94	165	839	1,473	12,896	49,860	163,564	1,693	13,321	53,195	190,714
30-Aug	*	*	1	26	6	27	1,187	13,388	12,065	35,879	0	0	13,259	49,320
3-Sep	*	*	0	0	0	0	176	1,421	0	0	45	246	221	1,667
TOTAL	100	549	1,686	19,084	55,477	324,667	59,371	452,949	1,302,296	4,443,429	134,584	1,085,290	1,553,414	6,325,419
Average Weight -				11.3		5.9		7.6		3.4		8.1		
EASTSIDE KODIAK MANAGEMENT PLAN UNITS														
GRAND TOTAL		619	2,309	24,419	63,729	365,523	74,710	563,310	1,334,167	4,547,153	164,325	1,291,253	1,639,240	6,791,658
Average Weight -				10.6		5.7		7.5		3.4		7.9		

* = Confidential information.

INTRODUCTION

The salmon fisheries of the north end of the Kodiak Archipelago (Appendix A.1) have unique characteristics. In Perenosa Bay several systems have been the site of salmon enhancement and rehabilitation work for many years. Sockeye salmon were stocked into the Pauls and Laura Lake system (stream # 251-831) and the Portage Lake system (stream # 251-825) beginning in the 1930s. Fish passes were built on some small systems to allow salmon to move further up, increasing spawning area and subsequent returns. The Little Waterfall system (stream # 251-822) has been the site of extensive recent enhancement work, with fish pass remodeling and stocking, with the intent of increasing pink, sockeye, and coho salmon returns. Hidden Lake (stream # 251-406) in the Northwest Afognak Section has also been the site of coho and sockeye salmon stocking. Much of Shuyak Island is a State Park and the myriad deep bays, lagoons, small streams and lakes support early, strong coho returns. Shuyak fisheries have been important to smaller local fishing operations, though there has been more interest in these fisheries in recent years. State Park personnel operate small weirs on two systems to enumerate coho salmon escapement. ADF&G personnel operate a weir on the Pauls Lake system. Aerial surveys are flown by ADF&G biologists to monitor escapement into area streams. However, dense forest cover limits upstream aerial surveys. Escapement counts through the Pauls Bay and Shuyak weirs are used as indicators of escapement to the small salmon streams of the North Afognak/Shuyak area.

In 1990 the State of Alaska Board of Fisheries (BOF) passed the North Shelikof Strait Sockeye Salmon Management Plan (5 AAC 18.363). This management plan governs the harvest of sockeye salmon in sections bordering the north Shelikof Strait, including the Northwest Afognak and Shuyak Island Sections. The plan is only in effect from July 6 to 25, with the specific intent of limiting the harvest of migrating sockeye which may be bound for Cook Inlet (see Appendix F for a description of the North Shelikof Strait Sockeye Salmon Management Plan).

In November of 1995 the Board of Fisheries put into regulation the North Afognak/Shuyak Island Salmon Management Plan (5AAC 18.368) governing all commercial salmon fisheries on the north end of the Kodiak Archipelago. Though no comprehensive regulatory management plan was in effect prior to that date, the commercial fisheries of the area had followed a framework developed by fishery managers beginning in the early 1970s, with the harvest strategy remaining basically unchanged after 1987. The goal of this plan is to achieve escapement and harvest objectives for sockeye, pink, and coho salmon returning to spawning systems located in the Northeast Afognak, Perenosa Bay, Shuyak Island, and Northwest Afognak Sections of the Afognak District (Appendix A.1). This plan details the key species and targeted stocks that are managed in each of these sections throughout the fishing season (ADF&G 1996.). This plan was first in effect during the 1996 season.

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For the Northeast Afognak and Shuyak Island Sections commercial salmon fishing is to remain closed until July 6, when the general pink salmon fishery begins for most of the KMA. Fishing opportunities in the Northeast Afognak Section are to be based on the abundance of local and mixed pink salmon through August 24, then management switches toward local pink and coho salmon through September 5, then to local coho salmon after September 5. Fishing opportunities in the Shuyak Island Section are to be based on the abundance of local and mixed pink salmon through August 20, then is based on local coho salmon through the end of the season. From July 6 to 25 the Shuyak Island Section is also managed in accordance with the North Shelikof management plan.

For the Perenosa Bay Section, from June 9 to July 5 fishing opportunities are to be based on sockeye salmon returning to the Pauls Bay and Portage Lake systems. Additional fishing time may be allowed to harvest enhanced sockeye salmon bound for the Little Waterfall system, but only inside the defined Waterfall Bay Terminal Harvest Area (all waters within 1 nautical mile of Little Waterfall Creek, stream # 251-822; 5 AAC 18.376). From July 6 to 20 management for the Perenosa Bay Section is based on local and mixed pink salmon and Pauls and Portage sockeye salmon. From July 21 to August 20 it is based on the abundance of local and mixed pinks, from August 21 to September 5 on local pink and coho salmon, and after September 5 fishing opportunities are to be based on the abundance of local coho salmon.

Finally, for the Northwest Afognak Section, from June 9 to July 5 fishing opportunities are to be based on sockeye salmon bound to the minor systems at Thorsheim (stream # 251-302) and Long Lagoon (stream # 251-301) though there may be no more than two 33-hour fishing periods. Additional fishing time may be allowed to harvest enhanced sockeye salmon bound for the Hidden Lake system, but only in the defined Foul Bay Terminal Harvest Area (all waters of Foul Bay east of 152° 47.20' West Longitude up to the mouth and estuary of Hidden Creek, stream # 251-406; 5 AAC 18.375). From July 6 to August 24 management is to be based on the abundance of local and mixed pink salmon, and after August 24 fishing periods are based on the abundance of local coho salmon. Additional fishing time may be allowed to harvest enhancement project coho salmon bound for the Hidden Lake system, but again only in the Foul Bay Terminal Harvest Area. From July 6 to 25 the Northwest Afognak Section is also managed in accordance with the North Shelikof management plan.

As mentioned, within the Perenosa Section the Pauls Lake and Portage Lake systems produce significant runs of sockeye salmon, and the Little Waterfall system is stocked with sockeye salmon. The Pauls Lake system is weired for accurate escapement enumeration. Within the Northwest Afognak Section the Thorsheim and Long Lagoon systems also produce minor runs of sockeye salmon, and the Hidden Lake system is stocked with sockeye salmon.

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1997 North Afognak/Shuyak Island Fisheries

The first commercial salmon fishing period for the North Afognak/Shuyak Island management units began June 9, limited to the Foul Bay and Waterfall Bay Terminal Harvest Areas. The last landing from the North Afognak/Shuyak Island management units (Northwest Afognak, Perenosa Bay, Shuyak Islands, and Northeast Afognak Sections) was on September 12. Fifty nine (59) permit holders harvested 235,795 salmon, including 1,378 chinook, 53,320 sockeye, 40,512 coho, 136,036 pink, and 4,549 chum salmon in 163 landings (Appendix J.2.).

Based on ADF&G Fish Ticket reports, from the Waterfall Terminal Harvest Area, 11 fishers made 24 landings, and harvested 27,873 sockeye salmon. From the Foul Bay Terminal Harvest Area, 6 fishers made 13 landings, and harvested 13,751 sockeye salmon (Appendix J.2.). Harvest estimates made by ADF&G field crews monitoring these fisheries were slightly higher, estimating that perhaps 5,000 additional sockeye may have been taken from each of these THAs. Some early June harvests may have been reported as coming from other nearby management units.

Appendix J.2. Daily salmon harvest, by species, for North Afognak/Shuyak Island management units, 1997.

Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
NORTHWEST AFOGNAK SECTION (excluding the Foul Bay THA)														
6-Jul	4	4	38	300	925	4,848	5	45	906	2,866	71	590	1,945	8,649
7-Jul	*	*	36	243	1,038	4,884	3	24	411	1,536	29	248	1,517	6,935
8-Jul	*	*	7	50	198	1,156	0	0	265	807	45	505	515	2,518
9-Jul	*	*	0	0	395	2,174	0	0	830	2,753	27	198	1,252	5,125
22-Jul	*	*	0	0	627	2,943	106	901	1,458	5,004	232	2,144	2,423	10,992
23-Jul	4	4	21	203	513	2,609	162	964	4,567	15,573	824	5,132	6,087	24,481
24-Jul	*	*	0	0	75	317	10	86	450	1,556	40	370	575	2,329
7-Aug	*	*	0	0	96	426	166	1,076	3,091	11,935	4	30	3,357	13,467
8-Aug	*	*	0	0	5	25	0	0	845	3,536	6	52	856	3,613
9-Aug	*	4	2	22	7	39	168	1,214	1,923	5,802	21	152	2,121	7,229
10-Aug	*	6	3	18	169	853	372	2,599	2,991	10,258	123	736	3,658	14,464
11-Aug	*	*	2	10	36	240	266	2,437	13,919	28,376	31	267	14,254	31,330
12-Aug	*	6	2	15	275	1,480	288	2,014	3,899	13,647	107	639	4,571	17,795
13-Aug	*	*	0	0	78	465	87	608	1,434	5,733	14	147	1,613	6,953
14-Aug	*	*	0	0	757	4,252	693	5,959	13,313	53,386	231	2,252	14,994	65,849
15-Aug	*	*	1	23	375	1,867	825	6,624	15,479	52,704	68	682	16,748	61,900
16-Aug	4	7	0	0	550	2,389	464	3,307	7,854	26,657	107	658	8,975	33,011
17-Aug	7	7	3	45	573	3,068	579	4,144	10,944	36,520	111	943	12,210	44,720
18-Aug	8	8	2	46	766	4,461	1,299	9,894	16,054	56,724	80	897	18,201	72,022
19-Aug	*	*	0	0	400	1,975	79	805	4,702	18,814	20	246	5,201	21,840
20-Aug	*	*	0	0	203	1,206	45	449	2,393	8,706	24	193	2,665	10,554
21-Aug	5	5	0	0	732	3,882	297	2,707	4,006	13,433	180	1,444	5,215	21,466
22-Aug	*	*	0	0	93	466	740	5,178	1,072	3,221	3	22	1,908	8,887
23-Aug	*	*	1	12	111	558	999	6,996	1,662	4,987	12	85	2,785	12,638
24-Aug	*	*	0	0	125	630	1,149	8,047	2,336	7,012	15	113	3,625	15,802
25-Aug	*	*	0	0	56	281	343	2,406	433	1,300	2	20	834	4,007
TOTAL	22	88	118	987	9,178	47,494	9,145	68,484	117,237	392,846	2,427	18,765	138,105	528,576
Average Weight	-	-	-	8.4	-	5.2	-	7.5	-	3.4	-	7.7	-	-
FOUL BAY TERMINAL HARVEST AREA														
21-Jun	*	*	0	0	1,484	6,411	0	0	0	0	0	0	1,484	6,411
22-Jun	*	*	0	0	2,388	9,553	0	0	0	0	0	0	2,388	9,553
23-Jun	4	4	0	0	5,256	24,172	0	0	0	0	0	0	5,256	24,172
24-Jun	*	4	0	0	3,030	14,454	0	0	5	15	2	12	3,037	14,481
25-Jun	*	*	0	0	867	4,249	0	0	0	0	0	0	867	4,249
26-Jun	*	*	0	0	580	2,657	0	0	0	0	0	0	580	2,657
29-Jun	*	*	0	0	146	596	0	0	0	0	0	0	146	596
TOTAL	6	13	0	0	13,751	62,092	0	0	5	15	2	12	13,758	62,119
Average Weight	-	-	-	-	-	4.5	-	-	-	3.0	-	6.0	-	-

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Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
PERENOSA BAY SECTION (excluding the Waterfall Bay THA)														
7-Aug	*	*	0	0	5	35	21	185	7,876	26,779	0	0	7,902	26,999
29-Aug	9	9	0	0	0	0	5,197	47,037	1,574	3,709	0	0	6,771	50,746
30-Aug	11	11	0	0	27	127	14,137	108,220	3,444	10,007	6	43	17,614	118,397
12-Sep	*	*	0	0	0	0	2,408	19,394	0	0	0	0	2,408	19,394
TOTAL	22	24	0	0	32	162	21,763	174,836	12,894	40,495	6	43	34,695	215,536
Average Weight	-	-	-	-	-	5.1	-	8.0	-	3.1	-	7.2	-	-
WATERFALL BAY TERMINAL HARVEST AREA														
10-Jun	*	*	0	0	3,557	20,983	0	0	0	0	0	0	3,557	20,983
15-Jun	*	*	0	0	150	650	0	0	0	0	0	0	150	650
16-Jun	*	*	0	0	6,265	31,329	0	0	0	0	0	0	6,265	31,329
19-Jun	*	*	0	0	3,382	17,249	0	0	0	0	0	0	3,382	17,249
20-Jun	*	*	0	0	6,758	34,327	0	0	0	0	0	0	6,758	34,327
21-Jun	*	*	0	0	276	1,222	0	0	0	0	0	0	276	1,222
23-Jun	*	*	0	0	1,773	7,118	0	0	0	0	0	0	1,773	7,118
24-Jun	*	*	3	43	2,027	8,590	0	0	0	0	0	0	2,030	8,633
26-Jun	*	*	0	0	829	3,815	0	0	0	0	0	0	829	3,815
27-Jun	*	*	0	0	1,031	4,777	0	0	0	0	0	0	1,031	4,777
29-Jun	*	*	0	0	351	1,404	0	0	0	0	0	0	351	1,404
30-Jun	*	*	0	0	351	1,404	0	0	0	0	0	0	351	1,404
2-Jul	*	*	0	0	36	181	0	0	44	131	4	20	84	332
3-Jul	*	*	0	0	580	2,905	0	0	0	0	0	0	580	2,905
7-Jul	*	*	8	81	502	2,007	1	4	182	547	30	181	723	2,820
31-Aug	*	*	0	0	5	27	1,307	9,151	689	2,067	0	0	2,001	11,245
TOTAL	11	24	11	124	27,873	137,988	1,308	9,155	915	2,745	34	201	30,141	150,213
Average Weight	-	-	-	11.3	-	5.0	-	7.0	-	3.0	-	5.9	-	-
SHUYAK ISLAND SECTION														
7-Aug	*	*	0	0	2	10	69	610	1,798	6,113	0	0	1,869	6,733
10-Sep	*	*	0	0	0	0	454	3,547	0	0	0	0	454	3,547
11-Sep	*	4	0	0	8	20	4,402	34,293	0	0	5	15	4,415	34,328
12-Sep	*	*	0	0	826	3,304	1,557	12,612	0	0	0	0	2,383	15,916
TOTAL	7	9	0	0	836	3,334	6,482	51,062	1,798	6,113	5	15	9,121	60,524
Average Weight	-	-	-	-	-	4.0	-	7.9	-	3.4	-	3.0	-	-

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Date	Permits	Landings	CHINOOK		SOCKEYE		COHO		PINK		CHUM		TOTAL	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
NORTHEAST AFOGNAK SECTION														
15-Jul	*	*	1,229	2,697	466	2,798	1,392	11,140	1,295	4,068	1,331	11,987	5,713	32,690
16-Jul	*	*	0	0	1,159	6,341	256	2,367	1,735	5,036	574	4,965	3,724	18,709
17-Jul	*	*	20	195	25	99	166	1,331	157	470	170	1,022	538	3,117
TOTAL	4	5	1,249	2,892	1,650	9,238	1,814	14,838	3,187	9,574	2,075	17,974	9,975	54,516
Average Weight -				2.3		5.6		8.2		3.0		8.7		
NORTH AFOGNAK/SHUYAK ISLAND MANAGEMENT PLAN UNITS														
GRAND TOTAL		163	1,378	4,003	53,320	260,308	40,512	318,375	136,036	451,788	4,549	37,010	235,795	1,071,484
Average Weight -				2.9		4.9		7.9		3.3		8.1		

Appendix K.1. Commercial salmon harvest, by management unit and statistical week, all gear combined, in the Kodiak Management Area, 1997.

SECTION (Statistical Areas)	Statistical Week Ending	#	CHINOOK			SOCKEYE			COHO			PINK			CHUM			
			Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	
S.W.AFOGNAK & RASPBERRY STRAITS (COMBINE) (251-10,11,20)	28-Jun	26	765	6,686	8.7	66,591	358,113	5.4	5	35	7.0	18,131	57,747	3.2	6,342	51,204	8.1	
	5-Jul	27	237	1,917	8.1	18,157	94,188	5.2	94	778	8.3	15,267	46,203	3.0	2,803	19,934	7.1	
	12-Jul	28	264	3,116	11.8	10,744	55,881	5.2	112	804	7.2	17,086	59,795	3.5	2,127	17,391	8.2	
	19-Jul	29	174	1,399	8.0	1,669	8,292	5.0	74	536	7.2	8,309	28,582	3.4	941	7,100	7.5	
	26-Jul	30	1,065	7,795	7.3	5,826	31,808	5.5	1,576	12,385	7.9	37,521	117,888	3.1	5,390	48,615	9.0	
	9-Aug	32	32	387	12.1	1,113	5,763	5.2	1,248	9,276	7.4	70,257	223,054	3.2	836	6,070	7.3	
	16-Aug	33	72	1,120	15.6	6,098	30,389	5.0	4,366	36,185	8.3	140,097	441,170	3.1	2,417	18,832	7.8	
	23-Aug	34	20	246	12.3	4,113	21,434	5.2	1,652	13,692	8.3	45,953	151,328	3.3	529	3,989	7.5	
	30-Aug	35	50	584	11.7	805	3,889	4.8	3,208	21,639	6.7	21,304	66,857	3.1	160	1,050	6.6	
	TOTAL			2,679	23,250	8.7	115,116	609,757	5.3	12,335	95,330	7.7	373,925	1,192,624	3.2	21,545	174,185	8.1
	N.W.AFOGNAK (251-30,40,41,50)	21-Jun	25	0	0	0.0	1,484	6,411	4.3	0	0	0.0	0	0	0.0	0	0	0.0
28-Jun		26	0	0	0.0	12,121	55,085	4.5	0	0	0.0	5	15	3.0	2	12	6.0	
5-Jul		27	0	0	0.0	146	596	4.1	0	0	0.0	0	0	0.0	0	0	0.0	
12-Jul		28	81	593	7.3	2,556	13,062	5.1	8	69	8.6	2,412	7,962	3.3	172	1,541	9.0	
26-Jul		30	21	203	9.7	1,215	5,869	4.8	278	1,951	7.0	6,475	22,133	3.4	1,096	7,646	7.0	
9-Aug		32	2	22	11.0	108	490	4.5	334	2,290	6.9	5,859	21,273	3.6	31	234	7.5	
16-Aug		33	8	66	8.3	2,240	11,546	5.2	2,995	23,548	7.9	58,889	190,761	3.2	681	5,381	7.9	
23-Aug		34	6	103	17.2	2,878	15,616	5.4	4,038	30,173	7.5	40,833	142,405	3.5	430	3,830	8.9	
30-Aug		35	0	0	0.0	181	911	5.0	1,492	10,453	7.0	2,769	8,312	3.0	17	133	7.8	
TOTAL				118	987	8.4	22,929	109,586	4.8	9,145	68,484	7.5	117,242	392,861	3.4	2,429	18,777	7.7
SHUYAK (251-60,70,81)	9-Aug	32	0	0	0.0	2	10	5.0	69	610	8.8	1,798	6,113	3.4	0	0	0.0	
	13-Sep	37	0	0	0.0	834	3,324	4.0	6,413	50,452	7.9	0	0	0.0	5	15	3.0	
	TOTAL			0	0	0.0	836	3,334	4.0	6,482	51,062	7.9	1,798	6,113	3.4	5	15	3.0
PERENOSA (251-82,83,84)	14-Jun	24	0	0	0.0	3,557	20,983	5.9	0	0	0.0	0	0	0.0	0	0	0.0	
	21-Jun	25	0	0	0.0	16,831	84,777	5.0	0	0	0.0	0	0	0.0	0	0	0.0	
	28-Jun	26	3	43	14.3	5,660	24,300	4.3	0	0	0.0	0	0	0.0	0	0	0.0	
	5-Jul	27	0	0	0.0	1,318	5,894	4.5	0	0	0.0	44	131	3.0	4	20	5.0	
	12-Jul	28	8	81	10.1	502	2,007	4.0	1	4	4.0	182	547	3.0	30	181	6.0	
	9-Aug	32	0	0	0.0	5	35	7.0	21	185	8.8	7,876	26,779	3.4	0	0	0.0	
	30-Aug	35	0	0	0.0	27	127	4.7	19,334	155,257	8.0	5,018	13,716	2.7	6	43	7.2	
	6-Sep	36	0	0	0.0	5	27	5.4	1,307	9,151	7.0	689	2,067	3.0	0	0	0.0	
	13-Sep	37	0	0	0.0	0	0	0.0	2,408	19,394	8.1	0	0	0.0	0	0	0.0	
	TOTAL			11	124	11.3	27,905	138,150	5.0	23,071	183,991	8.0	13,809	43,240	3.1	40	244	6.1
N.E.AFOGNAK (251-90,252-10,20)	19-Jul	29	1,249	2,892	2.3	1,650	9,238	5.6	1,814	14,838	8.2	3,187	9,574	3.0	2,075	17,974	8.7	
	TOTAL			1,249	2,892	2.3	1,650	9,238	5.6	1,814	14,838	8.2	3,187	9,574	3.0	2,075	17,974	8.7
IZHUT (252-30)	26-Jul	30	23	190	8.3	2,357	10,187	4.3	119	918	7.7	9,628	30,756	3.2	566	4,058	7.2	
	9-Aug	32	0	0	0.0	411	1,976	4.8	837	6,752	8.1	61,659	194,120	3.1	125	902	7.2	
	16-Aug	33	3	37	12.3	1,334	5,703	4.3	5,157	39,108	7.6	90,155	289,316	3.2	275	1,863	6.8	
	23-Aug	34	0	0	0.0	741	3,234	4.4	7,461	63,472	8.5	47,905	147,587	3.1	29	200	6.9	
	30-Aug	35	0	0	0.0	574	2,207	3.8	15,801	127,558	8.1	18,532	63,874	3.4	30	221	7.4	
	6-Sep	36	0	0	0.0	224	869	3.9	11,822	95,443	8.1	4,452	14,100	3.2	4	27	6.8	
	13-Sep	37	0	0	0.0	133	409	3.1	9,755	79,895	8.2	616	2,107	3.4	3	25	8.3	
	20-Sep	38	0	0	0.0	0	0	0.0	657	5,125	7.8	0	0	0.0	0	0	0.0	
	TOTAL			26	227	8.7	5,774	24,585	4.3	51,609	418,271	8.1	232,947	741,860	3.2	1,032	7,296	7.1
	KITOI BAY (252-32)	21-Jun	25	0	0	0.0	842	4,212	5.0	0	0	0.0	0	0	0.0	0	0	0.0
26-Jul		30	31	304	9.8	18,757	81,360	4.3	278	2,205	7.9	10,448	19,854	1.9	2,015	15,491	7.7	
2-Aug		31	0	0	0.0	5,539	28,201	5.1	148	1,059	7.2	129,408	432,273	3.3	239	1,876	7.8	
9-Aug		32	0	0	0.0	2,881	13,026	4.9	346	2,632	7.6	231,158	762,642	3.3	182	1,459	8.0	

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Appendix K.1. (page 2 of 6)

SECTION (Statistical Areas)	Statistical Week		CHINOOK			SOCKEYE			COHO			PINK			CHUM		
	Ending	#	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average
KITOI BAY (Cont.)	23-Aug	34	0	0	0.0	88	394	4.5	1,175	9,537	8.1	19,634	59,510	3.0	63	457	7.3
	30-Aug	35	0	0	0.0	312	1,515	4.9	2,105	17,798	8.5	30,242	79,145	2.6	0	0	0.0
	6-Sep	36	0	0	0.0	7	21	3.0	572	4,804	8.4	452	1,474	3.3	0	0	0.0
	13-Sep	37	0	0	0.0	9	48	5.3	1,017	7,120	7.0	0	0	0.0	0	0	0.0
	20-Sep	38	0	0	0.0	0	0	0.0	299	2,336	7.8	0	0	0.0	0	0	0.0
	TOTAL			31	304	9.8	28,235	128,777	4.6	5,940	47,491	8.0	421,342	1,354,898	3.2	2,499	19,283
DUCK BAY (252-31)	19-Jul	29	20	202	10.1	3,180	16,818	5.3	952	6,600	6.9	6,770	21,078	3.1	2,479	19,037	7.7
	26-Jul	30	10	140	14.0	7,468	35,764	4.8	1,261	9,809	7.8	42,875	148,624	3.5	2,603	18,758	7.2
	2-Aug	31	7	80	11.4	197	1,057	5.4	411	3,105	7.6	15,424	53,994	3.5	219	1,763	8.1
	9-Aug	32	9	116	12.9	1,073	5,739	5.3	2,715	20,475	7.5	179,474	596,549	3.3	942	7,656	8.1
	16-Aug	33	16	196	12.3	1,686	8,245	4.9	7,143	51,684	7.2	132,981	420,899	3.2	900	6,543	7.3
	23-Aug	34	3	88	29.3	1,059	4,552	4.3	12,844	98,532	7.7	83,407	260,315	3.1	102	719	7.0
	30-Aug	35	5	63	12.6	1,384	5,769	4.2	22,641	185,317	8.2	95,071	301,613	3.2	251	1,707	6.8
	6-Sep	36	0	0	0.0	39	167	4.3	3,392	25,868	7.6	3,324	9,711	2.9	2	17	8.5
	13-Sep	37	0	0	0.0	20	87	4.4	1,366	11,521	8.4	0	0	0.0	0	0	0.0
	20-Sep	38	0	0	0.0	0	0	0.0	70	531	7.6	0	0	0.0	0	0	0.0
	TOTAL			70	885	12.6	16,106	78,198	4.9	52,795	413,442	7.8	559,326	1,812,783	3.2	7,498	56,200
S.E.AFOGNAK (252-33,34,35)	21-Jun	25	0	0	0.0	925	4,161	4.5	0	0	0.0	0	0	0.0	0	0	0.0
	28-Jun	26	10	141	14.1	6,887	28,096	4.1	1	7	7.0	305	679	2.2	219	1,392	6.4
	5-Jul	27	30	288	9.6	6,994	31,245	4.5	142	1,046	7.4	4,434	12,755	2.9	1,735	12,230	7.0
	12-Jul	28	18	170	9.4	2,281	11,477	5.0	77	583	7.6	1,547	4,645	3.0	640	4,530	7.1
	19-Jul	29	3	15	5.0	1,760	9,335	5.3	459	3,324	7.2	3,470	11,410	3.3	1,353	10,578	7.8
	26-Jul	30	1	39	39.0	1,033	4,290	4.2	111	817	7.4	3,128	9,897	3.2	208	1,639	7.9
	9-Aug	32	2	52	26.0	315	1,565	5.0	633	4,585	7.2	83,116	252,676	3.0	260	1,800	6.9
	TOTAL			64	705	11.0	20,195	90,169	4.5	1,423	10,362	7.3	96,000	292,062	3.0	4,415	32,169
CENTRAL, TERROR BAY, INNER UGANIK, SPIRIDON, ZACHAR, & UYAK COMB. (253-11,12,13,14,31 32,33,35,254-10,20, 30,40,50)	14-Jun	24	94	1,072	11.4	35,260	186,447	5.3	0	0	0.0	57	199	3.5	381	2,899	7.6
	21-Jun	25	185	2,230	12.1	113,269	595,480	5.3	1	7	7.0	1,328	4,429	3.3	2,350	16,899	7.2
	28-Jun	26	627	4,946	7.9	92,707	489,592	5.3	25	167	6.7	10,709	37,570	3.5	5,094	38,162	7.5
	5-Jul	27	415	3,340	8.0	53,363	288,247	5.4	120	801	6.7	27,340	99,692	3.6	5,623	42,101	7.5
	12-Jul	28	331	3,005	9.1	53,192	286,746	5.4	328	2,349	7.2	52,499	190,962	3.6	8,055	59,302	7.4
	19-Jul	29	607	5,525	9.1	40,418	219,315	5.4	796	5,831	7.3	131,911	473,029	3.6	13,677	106,536	7.8
	26-Jul	30	1,143	11,482	10.0	73,030	391,872	5.4	2,825	22,014	7.8	295,693	1,075,231	3.6	34,070	298,222	8.8
	2-Aug	31	262	3,108	11.9	51,182	274,999	5.4	7,292	54,800	7.5	367,225	1,320,164	3.6	17,596	137,576	7.8
	9-Aug	32	206	2,487	12.1	67,167	365,408	5.4	12,886	101,209	7.9	714,808	2,535,279	3.5	27,857	231,594	8.3
	16-Aug	33	811	6,301	7.8	107,963	575,246	5.3	17,918	145,628	8.1	1,750,397	6,086,880	3.5	30,161	248,517	8.2
	23-Aug	34	442	4,803	10.9	120,105	634,002	5.3	21,844	176,688	8.1	1,731,078	5,744,646	3.3	11,157	85,818	7.7
	30-Aug	35	188	2,659	14.1	47,018	241,126	5.1	16,771	137,881	8.2	708,616	2,416,959	3.4	3,287	25,273	7.7
	6-Sep	36	0	0	0.0	16,031	80,005	5.0	1,195	9,962	8.3	1,349	4,050	3.0	4	29	7.3
	13-Sep	37	0	0	0.0	11,986	54,582	4.6	562	4,884	8.7	0	0	0.0	8	71	8.9
20-Sep	38	0	0	0.0	3,174	15,017	4.7	447	3,796	8.5	176	619	3.5	0	0	0.0	
TOTAL			5,311	50,958	9.6	885,865	4,698,084	5.3	83,010	666,017	8.0	5,793,166	19,989,709	3.5	159,320	1,292,999	8.1
NORTH CAPE, ANTON LARSEN, SHERATIN, & KIZHUYAK COMB. (259-35,36,37,38,39)	21-Jun	25	0	0	0.0	3,686	16,058	4.4	0	0	0.0	0	0	0.0	0	0	0.0
	28-Jun	26	54	490	9.1	7,496	37,719	5.0	1	10	10.0	704	2,838	4.0	173	1,258	7.3
	5-Jul	27	121	1,124	9.3	9,719	50,078	5.2	253	1,853	7.3	6,717	22,216	3.3	2,611	19,116	7.3
	12-Jul	28	71	618	8.7	4,801	26,006	5.4	374	2,623	7.0	6,799	24,899	3.7	2,091	15,232	7.3

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SECTION (Statistical Areas)	Statistical Week		CHINOOK			SOCKEYE			COHO			PINK			CHUM		
	Ending	#	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average
NORTH CAPE, ANTON LARSEN, SHERATIN, & KIZHUYAK COMB. (Cont.)	19-Jul	29	48	390	8.1	2,765	15,727	5.7	926	6,193	6.7	8,645	32,052	3.7	1,622	12,986	8.0
	26-Jul	30	4	59	14.8	670	3,687	5.5	453	3,137	6.9	8,071	30,057	3.7	782	6,362	8.1
	9-Aug	32	3	37	12.3	1,198	6,339	5.3	2,385	17,210	7.2	53,167	181,604	3.4	4,566	35,051	7.7
	16-Aug	33	66	719	10.9	2,328	12,116	5.2	5,121	39,705	7.8	87,651	306,871	3.5	7,843	64,327	8.2
	23-Aug	34	0	0	0.0	843	4,824	5.5	1,756	15,013	8.5	8,557	34,785	4.1	1,984	16,119	8.1
	30-Aug	35	1	9	9.0	296	1,509	5.1	2,354	19,663	8.4	6,088	21,171	3.5	738	5,792	7.8
	TOTAL			368	3,446	9.4	33,802	173,861	5.1	13,623	105,407	7.7	186,399	656,493	3.5	22,410	176,243
OUTER KARLUK (255-20)	21-Jun	25	154	2,754	17.9	23,091	109,125	4.7	0	0	0.0	237	729	3.1	448	2,970	6.6
	28-Jun	26	394	6,131	15.6	26,389	124,670	4.7	7	70	10.0	1,395	4,300	3.1	722	5,181	7.2
	5-Jul	27	93	1,197	12.9	14,384	64,592	4.5	6	39	6.5	9,461	29,922	3.2	492	3,434	7.0
	12-Jul	28	14	195	13.9	4,524	21,054	4.7	7	52	7.4	1,720	5,622	3.3	145	1,074	7.4
	TOTAL			655	10,277	15.7	68,388	319,441	4.7	20	161	8.1	12,813	40,573	3.2	1,807	12,659
INNER KARLUK (255-10)	21-Jun	25	122	1,795	14.7	4,352	22,179	5.1	0	0	0.0	12	40	3.3	29	208	7.2
	28-Jun	26	515	8,436	16.4	11,142	53,323	4.8	2	12	6.0	975	2,906	3.0	582	4,293	7.4
	5-Jul	27	120	1,930	16.1	11,467	58,258	5.1	2	19	9.5	4,715	14,581	3.1	410	3,457	8.4
	12-Jul	28	33	153	4.6	1,854	9,449	5.1	0	0	0.0	1,424	4,585	3.2	106	784	7.4
	TOTAL			790	12,314	15.6	28,815	143,209	5.0	4	31	7.8	7,126	22,112	3.1	1,127	8,742
HALIBUT BAY (256-25,30)	28-Jun	26	152	1,900	12.5	38,525	197,027	5.1	10	73	7.3	4,653	13,481	2.9	1,110	9,645	8.7
	5-Jul	27	200	2,492	12.5	57,731	304,924	5.3	26	174	6.7	24,686	72,313	2.9	1,835	14,267	7.8
	12-Jul	28	63	840	13.3	32,617	176,108	5.4	55	388	7.1	17,627	52,983	3.0	668	4,941	7.4
	19-Jul	29	89	865	9.7	24,483	128,364	5.2	114	752	6.6	34,710	111,555	3.2	769	5,869	7.6
	26-Jul	30	21	293	14.0	25,041	126,215	5.0	642	4,853	7.6	40,823	134,652	3.3	815	6,531	8.0
	2-Aug	31	0	0	0.0	5,056	25,992	5.1	119	1,121	9.4	9,275	32,462	3.5	73	662	9.1
	TOTAL			525	6,390	12.2	183,453	956,630	5.2	966	7,361	7.6	131,774	417,446	3.2	5,270	41,915
INNER & OUTER AYAKULIK (256-10,15,20)	21-Jun	25	5	104	20.8	7,911	40,460	5.1	0	0	0.0	22	80	3.6	29	222	7.7
	28-Jun	26	491	8,428	17.2	31,956	167,729	5.2	1	8	8.0	13,797	35,872	2.6	1,094	8,329	7.6
	5-Jul	27	231	2,733	11.8	72,189	382,886	5.3	21	145	6.9	19,336	59,111	3.1	1,294	10,430	8.1
	12-Jul	28	36	468	13.0	25,231	138,730	5.5	61	442	7.2	7,638	24,953	3.3	529	3,939	7.4
	19-Jul	29	58	567	9.8	21,632	110,096	5.1	133	955	7.2	26,286	89,057	3.4	841	7,390	8.8
	13-Sep	37	1	21	21.0	1,905	9,589	5.0	1,177	10,891	9.3	0	0	0.0	41	377	9.2
	TOTAL			822	12,321	15.0	160,824	849,490	5.3	1,393	12,441	8.9	67,079	209,073	3.1	3,828	30,687
CAPE ALITAK (257-10&20)	21-Jun	25	17	343	20.2	16,830	89,024	5.3	0	0	0.0	168	580	3.5	454	3,835	8.4
	28-Jun	26	101	1,833	18.1	18,586	98,567	5.3	1	5	5.0	2,836	8,562	3.0	1,706	15,120	8.9
	5-Jul	27	24	334	13.9	4,830	25,885	5.4	1	6	6.0	1,940	5,767	3.0	589	5,284	9.0
	12-Jul	28	5	101	20.2	2,410	12,947	5.4	33	227	6.9	2,812	11,098	3.9	258	2,113	8.2
	19-Jul	29	7	102	14.6	8,548	44,146	5.2	172	1,167	6.8	13,101	47,793	3.6	2,731	21,698	7.9
	26-Jul	30	4	69	17.3	8,628	45,226	5.2	43	314	7.3	15,265	53,512	3.5	1,674	13,194	7.9
	2-Aug	31	1	16	16.0	9,517	46,738	4.9	34	265	8.4	16,520	62,450	3.8	416	3,377	8.1
	9-Aug	32	8	145	18.1	12,289	62,914	5.1	212	1,680	7.9	32,329	118,792	3.7	5,583	54,781	9.8
	16-Aug	33	0	0	0.0	6,111	34,287	5.6	438	3,465	7.9	44,895	138,719	3.1	2,353	19,076	8.1
	30-Aug	35	5	130	26.0	45,543	243,506	5.3	3,981	36,751	9.2	66,796	231,436	3.5	2,370	20,789	8.8
	6-Sep	36	5	119	23.8	45,061	232,072	5.2	7,455	67,672	9.1	29,089	101,539	3.5	2,880	23,940	8.3
	13-Sep	37	0	0	0.0	20,819	104,338	5.0	2,983	27,710	9.3	0	0	0.0	1,806	15,301	8.5
	20-Sep	38	1	14	14.0	2,823	13,020	4.6	455	4,200	9.2	0	0	0.0	245	1,859	7.6
	27-Sep	39	0	0	0.0	2,200	9,086	4.1	240	2,008	8.4	0	0	0.0	172	1,073	6.2
	TOTAL			178	3,206	18.0	204,195	1,061,756	5.2	16,048	145,490	9.1	225,751	780,248	3.5	23,237	201,440

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SECTION (Statistical Areas)	Statistical Week		CHINOOK			SOCKEYE			COHO			PINK			CHUM		
	Ending	#	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average
MOSER/OLGA BAY & DOG SALMON FLATS (257-40,41,42)	31-May	22	0	0	0.0	36	182	5.1	0	0	0.0	0	0	0.0	0	0	0.0
	7-Jun	23	0	0	0.0	353	1,945	5.5	0	0	0.0	0	0	0.0	0	0	0.0
	14-Jun	24	30	647	21.6	20,556	108,625	5.3	0	0	0.0	0	0	0.0	55	443	8.1
	21-Jun	25	7	132	18.9	15,730	84,403	5.4	1	12	12.0	3	10	3.3	241	2,247	9.3
	28-Jun	26	37	641	17.3	60,517	318,163	5.3	10	68	6.8	802	3,000	3.7	1,880	15,719	8.4
	5-Jul	27	1	15	15.0	5,858	31,531	5.4	0	0	0.0	493	1,820	3.7	342	2,842	8.3
	12-Jul	28	2	29	14.5	14,994	80,531	5.4	63	449	7.1	5,539	21,734	3.9	1,219	10,286	8.4
	19-Jul	29	3	47	15.7	24,836	130,169	5.2	195	1,322	6.8	23,114	85,928	3.7	1,756	14,563	8.3
	26-Jul	30	4	98	24.5	16,460	88,354	5.4	142	1,049	7.4	16,472	64,512	3.9	744	6,044	8.1
	2-Aug	31	0	0	0.0	22,962	119,906	5.2	118	884	7.5	13,112	52,474	4.0	470	3,800	8.1
	9-Aug	32	1	25	25.0	54,337	290,702	5.3	295	2,196	7.4	47,207	180,053	3.8	2,329	20,589	8.8
	16-Aug	33	2	52	26.0	12,602	67,223	5.3	377	3,147	8.3	11,974	47,286	3.9	625	5,540	8.9
	23-Aug	34	0	0	0.0	6,815	35,512	5.2	441	4,176	9.5	2,237	8,539	3.8	650	5,521	8.5
	30-Aug	35	2	29	14.5	50,012	258,559	5.2	3,976	36,542	9.2	14,156	53,267	3.8	5,349	45,964	8.6
	6-Sep	36	0	0	0.0	38,105	194,997	5.1	3,397	32,379	9.5	2,442	9,339	3.8	5,134	43,383	8.5
	13-Sep	37	0	0	0.0	29,824	151,990	5.1	3,324	31,617	9.5	481	1,868	3.9	5,558	43,350	7.8
20-Sep	38	0	0	0.0	26,390	131,735	5.0	1,293	12,364	9.6	0	0	0.0	3,001	19,754	6.6	
27-Sep	39	0	0	0.0	692	3,669	5.3	84	632	7.5	0	0	0.0	93	745	8.0	
4-Oct	40	0	0	0.0	1,086	5,756	5.3	42	315	7.5	0	0	0.0	116	934	8.1	
	TOTAL		89	1,715	19.3	402,165	2,103,952	5.2	13,758	127,152	9.2	138,032	529,830	3.8	29,562	241,724	8.2
INNER & OUTER AKALURA (257-257-30)	30-Aug	35	0	0	0.0	4,258	20,496	4.8	93	842	9.1	587	1,815	3.1	12	30	2.5
	TOTAL		0	0	0.0	4,258	20,496	4.8	93	842	9.1	587	1,815	3.1	12	30	2.5
HUMPY/DEADMAN (257-50,60,70)	21-Jun	25	0	0	0.0	2,084	10,006	4.8	0	0	0.0	41	130	3.2	53	480	9.1
	28-Jun	26	5	94	18.8	2,301	11,665	5.0	0	0	0.0	172	503	2.9	94	798	8.5
	5-Jul	27	0	0	0.0	174	959	5.5	0	0	0.0	12	50	4.2	47	353	7.5
	12-Jul	28	3	67	22.3	3,927	21,931	5.6	6	39	6.5	3,878	14,958	3.9	146	1,207	8.3
	19-Jul	29	6	58	9.7	6,206	32,898	5.3	37	249	6.7	9,241	35,517	3.8	312	2,600	8.3
	26-Jul	30	2	25	12.5	9,075	46,944	5.2	35	232	6.6	25,236	86,459	3.4	712	6,024	8.5
	9-Aug	32	0	0	0.0	8,023	41,182	5.1	159	1,309	8.2	83,340	289,566	3.5	6,199	49,834	8.0
	16-Aug	33	6	101	16.8	18,741	96,851	5.2	634	4,750	7.5	238,362	785,130	3.3	18,224	153,707	8.4
	23-Aug	34	0	0	0.0	18,496	96,941	5.2	1,307	11,538	8.8	173,018	527,176	3.0	5,261	42,353	8.1
	30-Aug	35	2	31	15.5	7,930	41,517	5.2	1,320	11,735	8.9	57,688	177,006	3.1	1,747	14,056	8.0
	6-Sep	36	0	0	0.0	422	1,862	4.4	155	1,296	8.4	0	0	0.0	169	1,354	8.0
	TOTAL		24	376	15.7	77,379	402,836	5.2	3,653	31,148	8.5	590,968	1,916,495	3.2	32,964	272,766	8.3
SEVEN RIVERS (258-70,80,83,85,90)	28-Jun	26	1	14	14.0	912	5,742	6.3	0	0	0.0	336	1,172	3.5	206	1,798	8.7
	12-Jul	28	217	1,446	6.7	10,097	59,536	5.9	2,087	14,697	7.0	6,790	24,531	3.6	2,055	14,823	7.2
	19-Jul	29	200	2,834	14.2	4,347	24,978	5.7	5,532	38,062	6.9	3,143	10,759	3.4	4,255	33,245	7.8
	26-Jul	30	35	357	10.2	456	2,354	5.2	1,759	11,387	6.5	1,706	5,698	3.3	922	7,306	7.9
	9-Aug	32	0	0	0.0	180	784	4.4	0	0	0.0	32,953	109,134	3.3	103	774	7.5
	16-Aug	33	0	0	0.0	105	441	4.2	37	316	8.5	46,394	151,027	3.3	456	4,224	9.3
	23-Aug	34	0	0	0.0	7	28	4.0	8	64	8.0	4,078	16,309	4.0	8	63	7.9
	30-Aug	35	0	0	0.0	104	449	4.3	161	1,748	10.9	101,777	303,040	3.0	48	519	10.8
	6-Sep	36	0	0	0.0	0	0	0.0	176	1,421	8.1	0	0	0.0	45	246	5.5
		TOTAL		453	4,651	10.3	16,208	94,312	5.8	9,760	67,695	6.9	197,177	621,670	3.2	8,098	62,998

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Appendix K.1. (page 5 of 6)

SECTION (Statistical Areas)	Statistical Week		CHINOOK			SOCKEYE			COHO			PINK			CHUM		
	Ending	#	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average
TWO-HEADED (258-54,55,60)	12-Jul	28	39	584	15.0	1,684	8,966	5.3	644	3,745	5.8	445	1,715	3.9	88	698	7.9
	19-Jul	29	9	186	20.7	596	3,916	6.6	872	6,197	7.1	462	1,683	3.6	162	1,314	8.1
	26-Jul	30	4	48	12.0	541	2,980	5.5	2,107	16,880	7.9	4,493	16,242	3.6	287	2,540	8.9
	16-Aug	33	7	132	18.9	188	959	5.1	708	6,159	8.7	54,504	202,104	3.7	2,197	19,931	9.1
	23-Aug	34	2	46	23.0	312	1,539	4.9	733	5,986	8.2	90,327	329,141	3.6	2,787	26,072	9.4
	30-Aug	35	2	44	22.0	45	206	4.6	2,587	24,830	9.6	23,989	82,577	3.4	1,469	8,969	6.1
TOTAL			63	1,040	16.5	3,366	18,566	5.5	7,651	63,597	8.3	174,220	633,462	3.6	6,990	59,524	8.5
SITKALIDAK (258-10,20,30,40,51, 52,53)	12-Jul	28	325	4,067	12.5	11,119	68,263	6.1	4,842	33,148	6.8	2,971	10,141	3.4	2,680	21,082	7.9
	19-Jul	29	440	3,636	8.3	12,906	78,898	6.1	16,358	115,333	7.1	6,519	22,822	3.5	14,422	116,692	8.1
	26-Jul	30	56	884	15.8	1,022	5,393	5.3	2,202	16,981	7.7	11,935	46,369	3.9	1,369	12,837	9.4
	9-Aug	32	4	83	20.8	603	3,259	5.4	445	3,717	8.4	86,528	307,626	3.6	5,106	46,264	9.1
	16-Aug	33	37	400	10.8	512	2,563	5.0	2,442	21,103	8.6	194,513	657,125	3.4	17,573	154,329	8.8
	23-Aug	34	48	555	11.6	1,229	6,226	5.1	4,850	39,891	8.2	411,732	1,370,830	3.3	20,292	167,990	8.3
30-Aug	35	4	94	23.5	870	4,387	5.0	5,481	45,919	8.4	187,765	679,188	3.6	8,997	74,070	8.2	
TOTAL			914	9,719	10.6	28,261	168,989	6.0	36,620	276,092	7.5	901,963	3,094,101	3.4	70,439	593,264	8.4
INNER & OUTER UGAK (259-40,41,42)	12-Jul	28	122	1,601	13.1	5,232	31,294	6.0	1,047	9,051	8.6	1,233	4,864	3.9	1,000	8,351	8.4
	19-Jul	29	87	1,624	18.7	2,147	10,260	4.8	832	5,793	7.0	1,650	5,423	3.3	2,398	15,297	6.4
	26-Jul	30	34	267	7.9	145	701	4.8	1,222	12,316	10.1	653	2,170	3.3	195	1,824	9.4
	9-Aug	32	0	0	0.0	28	139	5.0	29	225	7.8	4,820	14,949	3.1	7,169	59,186	8.3
	16-Aug	33	8	85	10.6	6	25	4.2	420	3,797	9.0	2,001	6,925	3.5	9,344	66,198	7.1
	23-Aug	34	5	97	19.4	84	381	4.5	1,688	13,363	7.9	18,348	59,173	3.2	28,661	216,006	7.5
30-Aug	35	0	0	0.0	0	0	0.0	102	1,020	10.0	231	692	3.0	290	2,642	9.1	
TOTAL			256	3,674	14.4	7,642	42,800	5.6	5,340	45,565	8.5	28,938	94,196	3.3	49,057	369,504	7.5
OUTER CHINIAK (259-21,25)	12-Jul	28	14	237	16.9	530	2,555	4.8	37	268	7.2	460	1,486	3.2	923	7,082	7.7
	19-Jul	29	556	4,281	7.7	7,231	36,009	5.0	6,157	43,131	7.0	7,250	22,256	3.1	25,333	174,548	6.9
	26-Jul	30	16	164	10.3	421	1,984	4.7	324	2,455	7.6	7,794	26,854	3.4	2,332	16,171	6.9
	9-Aug	32	6	77	12.8	7	27	3.9	241	1,926	8.0	2,734	8,470	3.1	136	1,007	7.4
	23-Aug	34	0	0	0.0	0	0	0.0	71	497	7.0	35	88	2.5	2	17	8.5
	13-Sep	37	0	0	0.0	1	7	7.0	4,367	31,758	7.3	0	0	0.0	2	15	7.5
TOTAL			592	4,759	8.0	8,190	40,582	5.0	11,197	80,033	7.1	18,273	59,154	3.2	28,728	198,840	6.9
INNER CHINIAK (259-23,24)	9-Aug	32	2	24	12.0	0	0	0.0	3	22	7.3	1,316	3,948	3.0	551	3,862	7.0
	23-Aug	34	14	284	20.3	1	6	6.0	158	1,133	7.2	1,617	5,504	3.4	230	1,619	7.0
	30-Aug	35	1	17	17.0	1	5	5.0	68	496	7.3	652	2,058	3.2	200	1,410	7.1
	13-Sep	37	1	16	16.0	0	0	0.0	2,813	20,212	7.2	0	0	0.0	2	16	8.0
TOTAL			18	341	18.9	2	11	5.5	3,042	21,863	7.2	3,585	11,510	3.2	983	6,907	7.0
MONASHKA & MILL BAY (259-10)	23-Aug	34	11	197	17.9	35	149	4.3	533	4,658	8.7	5,394	17,066	3.2	10	73	7.3
	30-Aug	35	2	38	19.0	25	114	4.6	393	2,411	6.1	4,619	15,994	3.5	20	143	7.2
	13-Sep	37	0	0	0.0	0	0	0.0	174	1,396	8.0	0	0	0.0	0	0	0.0
TOTAL			13	235	18.1	60	263	4.4	1,100	8,465	7.7	10,013	33,060	3.3	30	216	7.2
BIG RIVER (262-10,15)	6-Sep	36	0	0	0.0	0	0	0.0	866	6,836	7.9	0	0	0.0	0	0	0.0
	13-Sep	37	0	0	0.0	0	0	0.0	143	1,145	8.0	0	0	0.0	0	0	0.0
TOTAL			0	0	0.0	0	0	0.0	1,009	7,981	7.9	0	0	0.0	0	0	0.0

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SECTION (Statistical Areas)	Statistical Week Ending	#	CHINOOK			SOCKEYE			COHO			PINK			CHUM		
			Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average	Number	Pounds	Average
HALLO BAY (262-20)	26-Jul	30	0	0	0.0	876	5,345	6.1	73	502	6.9	525	1,632	3.1	60	579	9.7
	TOTAL		0	0	0.0	876	5,345	6.1	73	502	6.9	525	1,632	3.1	60	579	9.7
DAKAVAK (262-35,40,45,50,55)	12-Jul	28	1,379	11,481	8.3	18,181	117,627	6.5	104	693	6.7	6,410	21,910	3.4	1,312	10,651	8.1
	19-Jul	29	415	3,965	9.6	21,441	119,215	5.6	399	2,724	6.8	10,348	32,466	3.1	1,022	8,296	8.1
	26-Jul	30	42	291	6.9	14,873	86,726	5.8	978	9,136	9.3	12,015	33,868	2.8	888	8,247	9.3
	9-Aug	32	23	311	13.5	15,854	72,791	4.6	1,374	13,251	9.6	50,143	152,761	3.0	2,421	22,713	9.4
	16-Aug	33	26	277	10.7	6,046	29,861	4.9	1,425	11,484	8.1	30,129	97,335	3.2	2,954	21,412	7.2
	23-Aug	34	12	127	10.6	0	0	0.0	242	1,648	6.8	33,894	110,966	3.3	462	3,143	6.8
	30-Aug	35	0	0	0.0	5	27	5.4	4	35	8.8	32,092	104,343	3.3	43	319	7.4
	TOTAL			1,897	16,452	8.7	76,400	426,247	5.6	4,526	38,971	8.6	175,031	554,149	3.2	9,102	74,781
KATMAI (262-60)	12-Jul	28	596	6,368	10.7	11,404	68,438	6.0	88	745	8.5	4,730	14,486	3.1	765	5,948	7.8
	19-Jul	29	373	3,693	9.9	27,360	163,719	6.0	630	4,822	7.7	11,956	36,401	3.2	997	8,078	8.1
	26-Jul	30	58	619	10.7	21,229	118,674	5.6	1,838	12,880	7.0	14,535	44,842	3.1	1,297	9,653	7.4
	2-Aug	31	0	0	0.0	1,537	8,455	5.5	52	369	7.1	981	3,239	3.3	56	396	7.1
	TOTAL			1,027	10,680	10.4	61,530	359,286	5.8	2,608	18,816	7.2	32,202	100,968	3.1	3,115	24,075
ALINCHAK (262-65,70)	12-Jul	28	455	4,677	10.3	14,267	80,050	5.6	21	168	8.0	9,132	29,807	3.3	645	4,716	7.3
	19-Jul	29	2	20	10.0	391	2,425	6.2	12	95	7.9	194	659	3.4	40	290	7.3
	26-Jul	30	20	101	5.1	36	182	5.1	185	1,037	5.6	234	702	3.0	7	80	11.4
	9-Aug	32	2	33	16.5	81	413	5.1	18	148	8.2	113,830	377,183	3.3	4,470	32,060	7.2
	16-Aug	33	0	0	0.0	24	130	5.4	69	528	7.7	224,499	703,026	3.1	8,633	66,191	7.7
	23-Aug	34	0	0	0.0	0	0	0.0	12	134	11.2	76,748	258,660	3.4	2,446	16,598	6.8
	30-Aug	35	0	0	0.0	0	0	0.0	0	0	0.0	11,603	38,292	3.3	224	1,797	8.0
	TOTAL			479	4,831	10.1	14,799	83,200	5.6	317	2,110	6.7	436,240	1,408,329	3.2	16,465	121,732
CAPE IGVAK (262-75,80,90,95)	9-Aug	32	1	8	8.0	62	318	5.1	64	400	6.3	11,993	36,443	3.0	500	4,106	8.2
	16-Aug	33	1	33	33.0	218	1,172	5.4	516	4,897	9.5	17,332	52,010	3.0	1,237	10,297	8.3
	TOTAL			2	41	20.5	280	1,490	5.3	580	5,297	9.1	29,325	88,453	3.0	1,737	14,403
WIDE BAY (262-85)	9-Aug	32	0	0	0.0	0	0	0.0	0	0	0.0	31,683	95,052	3.0	3,611	21,668	6.0
	16-Aug	33	0	0	0.0	0	0	0.0	3	13	4.3	20,245	60,744	3.0	297	2,444	8.2
	23-Aug	34	0	0	0.0	0	0	0.0	0	0	0.0	2,377	7,130	3.0	541	3,248	6.0
	TOTAL			0	0	0.0	0	0	0.0	3	13	4.3	54,305	162,926	3.0	4,449	27,360
GRAND TOTAL			18,728	186,869	10.0	2,505,785	13,163,925	5.3	381,008	3,036,321	8.0	11,035,128	37,273,464	3.4	520,329	4,159,537	8.0

Appendix L.1. Indexed peak salmon escapements by district and species for the Kodiak Management Area, 1997.

District	Number of fish ^a					Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook	
Afognak	193,037	344,944	736	62,646	1	99
Northwest Kodiak	56,250	626,370	118,160	32,200	0	75
Southwest Kodiak	872,973	128,475	21,828	61,398	27,800	11
Alitak Bay	572,170	505,001	68,857	23,192	662	31
Eastside Kodiak	47,216	492,711	39,904	7,878	1	61
Northeast Kodiak	9,853	316,178	19,308	19,525	70	53
Mainland	38,250	839,350	190,500	28,000	0	79
TOTAL	1,789,749	3,253,029	459,293	234,839	28,534	409

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.2. Indexed peak salmon escapements for the Afognak District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
251-101	600	0	0	0	0	6/30	Guchen	5
	0	1,000	0	-	0	8/28	Prokopowich	
	0	0	0	7,000	0	9/30	Guchen	
251-103	0	500	0	0	0	9/10	Brennan	1
251-105	9,455	0	0	0	0	8/7	Weir Count	3
	0	15,300	0	0	0	8/14	Brennan	
	0	-	0	2,500	0	9/10	Brennan	
251-202	0	150	0	0	0	9/10	Brennan	1
251-301	0	7,500	500	2,000	0	9/10	Brennan	3
251-302	1,400	10,000	0	0	0	8/28	Prokopowich	3
	0	-	0	1,000	0	9/10	Brennan	
251-403	0	9,000	0	0	0	7/28	Brennan	3
	0	500	0	0	0	9/10	Brennan	
251-404	0	25,500	0	0	0	8/4	Prokopowich	4
	0	4,650	0	0	0	9/10	Brennan	
251-406	7	0	0	0	0	6/10	Watchers	2
	-	4,500	0	0	0	9/10	Brennan	
251-502	0	4,000	0	1,350	0	8/29	Brennan	2
251-503	0	3,200	0	0	0	8/29	Brennan	1
251-504	0	14,583	0	0	0	8/25	Emerson	3
	0	-	0	150	0	8/29	Brennan	
251-505	20	-	0	-	0	8/25	Emerson	3
	0	4,000	0	250	0	8/29	Brennan	
251-507	0	0	0	200	0	8/29	Brennan	1
251-508	0	6,000	0	0	0	8/14	Brennan	1
251-601	100	3,500	0	5,000	0	10/1	Murphy	4
251-602	0	2,000	0	400	0	8/29	Brennan	1
251-603	150	1,000	0	2,000	0	10/1	Murphy	2
251-702	0	-	0	1,000	0	8/29	Brennan	2
	0	4,000	0	-	0	9/10	Brennan	
251-703	0	-	0	1,000	0	8/29	Brennan	2
	0	4,000	0	-	0	9/10	Brennan	
251-705	31	1,658	0	3,138	0	9/19	Weir Count	2
251-706	0	500	0	-	0	8/29	Brennan	
	0	0	0	1,200	0	9/10	Brennan	2
251-707	0	0	0	1,300	0	9/10	Brennan	
251-821	0	14,000	0	0	0	8/29	Brennan	3
251-822		14,970	0	0	0	8/22	Kansteiner	3
251-825	17,470	-	0	0	0	8/20	Markle	5
	-	-	0	8,000	0	8/29	Brennan	
	0	71,000	0	-	0	9/10	Brennan	3
251-831	31,456	1,980	32	8,280	0	8/28	Weir Count	
251-901	0	27,000	0	0	0	8/29	Brennan	2
251-902	0	300	0	0	0	8/29	Brennan	2
252-302	0	18,010	0	0	0	8/25	Emerson	1
252-306	0	9,307	0	0	0	8/25	Emerson	3
252-307	0	0	0	0	0	8/12	Prokopowich	3
252-309	0	4,000	0	0	0	8/25	Emerson	1
252-318	0	3,500	0	0	0	8/25	Emerson	1
252-323	298	1,514	0	570	0	10/7	Weir Count	2
252-324	0	2,500	0	750	0	10/27	Hall	
252-331	0	7,000	0	0	0	8/14	Prokopowich	4
	0	0	0	250	0	9/10	Brennan	
252-332	0	9,000	200	0	0	8/28	Prokopowich	6
	0	-	0	650	0	9/10	Brennan	
252-333	0	2,500	0	0	0	8/14	Brennan	1

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Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
252-335	0	0	0	0	0	8/14	Brennan	1
252-336	0	0	0	0	0	8/14	Brennan	1
252-337	0	0	0	0	0	8/14	Brennan	1
252-338	0	0	0	0	0	8/14	Brennan	1
252-342	132,050	19,122	4	10,908	1	9/10	Weir Count	
252-343	0	12,200	0	3,550	0	9/10	Brennan	4
	0	-	0	200	0	8/14	Brennan	
	193,037	344,944	736	62,646	1			99

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.3. Indexed peak salmon escapements for the Northwest Kodiak District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
253-115	9,800	0	0	0	0	7/15	Hawks	4
	0	0	0	3,150	0	10/9	Johnson	
253-121	0	7,500	0	0	0	8/18	Brennan	3
253-122	-	8,000	-	0	0	7/9	Prokopowich	10
	45,900	-	-	0	0	7/23	Brennan	
	0	122,000	34,000	0	0	8/18	Brennan	
	0	0	0	2,400	0	10/9	Johnson	
253-331	0	2,500	-	0	0	7/9	Prokopowich	7
	0	75,000	22,500	-	0	8/18	Brennan	
	0	0	0	2,200	0	10/9	Johnson	
253-332	0	12,500	0	0	0	8/18	Brennan	2
254-202	0	-	10,000	0	0	8/1	Prokopowich	6
	0	118,000	-	0	0	8/18	Brennan	
	0	0	0	1,950	0	10/9	Johnson	
254-203	0	0	1,200	0	0	7/23	Johnson	6
	0	77,000	0	0	0	8/1	Prokopowich	
	0	0	0	50	0	10/9	Johnson	
254-204	0	5,100	0	0	0	8/18	Brennan	3
254-206	0	5,000	0	0	0	8/18	Brennan	1
254-301	0	-	32,000	0	0	7/23	Prokopowich	7
	0	94,000	-	0	0	8/1	Prokopowich	
	0	0	0	8,200	0	10/9	Johnson	
254-401	0	-	5,500	0	0	8/18	Brennan	8
	50	11,100	-	0	0	9/3	Schrof	
	0	0	0	13,300	0	10/9	Johnson	
254-403	-	370	0	0	0	9/11	Schrof	7
259-363	500	0	0	0	0	7/23	Prokopowich	3
259-365	0	53,500	8,000	0	0	8/18	Brennan	1
259-371	0	6,000	-	0	0	8/7	Brennan	5
	0	17,300	2,100	950	0	9/10	Brennan	
259-382	0	6,000	2,860	0	0	8/7	Brennan	2
	0	5,500	-	0	0	9/10	Brennan	
	56,250	626,370	118,160	32,200	0			75

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.4. Indexed peak salmon escapements for the Southwest Kodiak District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
255-101	564,759	114,881	95	29,198	13,443	9/25	Weir Count	
256-201	308,214	13,594	83	-	14,357	8/30	Weir Count	
	0	0	0	23,000	0	10/9	Johnson	2
256-202	0	0	0	2,000	0	8/27	Prokopowich	1
256-401	0	0	21,200	0	0	7/1	Prokopowich	5
	0	0	0	7,200	0	10/9	Johnson	
256-402	0	0	450	0	0	7/15	Hawks	3
	872,973	128,475	21,828	61,398	27,800			11

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.5. Indexed peak salmon escapements for the Alitak Bay District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
257-302	18,140	25,092	3	2,409	0	9/12	Weir Count	
	0	0	0	2,000	0	10/9	Johnson	1
257-303	750	0	0	0	0	6/23	Kuriscak	4
	-	312	0	-	0	9/14	Kuriscak	
	-	0	0	1,500	0	10/17	Johnson	
257-304	278,448	14,920	5	7,359	0	9/10	Weir Count	
257-401	1	29,276	2,969	1	0	8/26	Kuriscak	1
257-402	6,500	0	0	0	0	8/19	Prokopowich	6
	-	2,311	2,724	4,300	0	9/3	Kuriscak	
257-403	268,328	136,608	5,336	3,773	662	9/1	Weir Count	1
257-404	3	12,482	920	0	0	9/3	Kuriscak	2
257-502	0	50,500	3,000	0	0	8/1	Prokopowich	4
	0	0	0	1,850	0	10/17	Johnson	
257-503	0	4,000	400	0	0	8/1	Prokopowich	1
257-503								
257-601	0	500	37,000	0	0	8/19	Prokopowich	1
257-602	0	27,000	0	0	0	8/19	Prokopowich	2
257-603	0	7,500	16,500	0	0	8/19	Prokopowich	2
257-604	0	16,500	0	0	0	8/19	Prokopowich	2
257-701	0	178,000	0	0	0	8/13	Prokopowich	4
	572,170	505,001	68,857	23,192	662			31

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.6. Indexed peak salmon escapements for the Eastside Kodiak District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
258-202	0	500	0	0	0	8/19	Prokopowich	1
258-204	0	2,000	5,600	0	0	8/19	Prokopowich	1
258-205	0	0	6,500	0	0	8/19	Prokopowich	1
258-206	0	1,200	500	0	0	8/12	Brennan	1
258-207	0	8,500	0	0	0	8/5	Prokopowich	6
	0	-	500	0	0	8/19	Prokopowich	
	0	21,100	0	400	0	9/10	Prokopowich	
258-208	0	5,000	0	0	0	8/19	Prokopowich	1
258-211	0	2,000	0	0	0	8/19	Prokopowich	1
258-212	0	0	0	0	0	8/12	Brennan	1
258-521	0	36,500	3,500	0	0	8/19	Prokopowich	4
	0	-	0	1,500	0	9/10	Prokopowich	
258-522	0	-	2,500	0	0	8/12	Brennan	6
	0	80,000	0	0	0	8/19	Prokopowich	
	0	-	0	800	0	9/10	Prokopowich	
258-541	0	5,500	0	0	0	8/5	Prokopowich	1
258-542	0	7,500	1,000	0	0	8/5	Prokopowich	1
258-551	0	10,200	0	0	0	8/19	Prokopowich	1
258-602	0	57,000	0	0	0	8/5	Prokopowich	1
258-701	0	125,000	0	0	0	8/13	Prokopowich	4
259-411	13,200	1,500	0	0	0	8/7	Brennan	6
	0	0	0	2,178	0	11/12	Schwarz	
259-412	3,000	1,500	0	0	0	7/23	Prokopowich	3
	0	34,000	0	1,500	0	9/10	Prokopowich	
259-414	0	18,500	0	0	0	8/19	Prokopowich	2
259-415	31,016	17,253	29	-	1	9/6	Weir Count	
	-	31,358	-	0	0	8/19	Prokopowich	4
	0	-	6,000	1,500	0	9/10	Prokopowich	
259-416	0	6,000	4,500	0	0	8/19	Prokopowich	2
259-417	0	100	0	0	0	8/7	Brennan	1
259-417A	0	0	25	0	0	8/7	Brennan	1
259-418	0	500	2,000	0	0	8/7	Brennan	1
259-419	0	0	0	0	0	8/7	Brennan	1
259-420	0	0	0	0	0	8/7	Brennan	1
259-422	0	1,800	0	0	0	8/7	Brennan	1
259-423	0	500	1,700	0	0	8/7	Brennan	1
259-424	0	11,300	3,350	0	0	8/19	Prokopowich	4
259-425	0	5,900	2,200	0	0	8/7	Brennan	1
259-427	0	500	0	0	0	8/7	Brennan	1
	47,216	492,711	39,904	7,878	1			61

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.7. Indexed peak salmon escapements for the Northeast Kodiak District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
259-101	0	9,700	0	0	0	8/12	Prokopowich	3
	4	10	4	199	0	10/1	Schwarz	
259-102	0	2,500	0	0	0	8/12	Prokopowich	3
	6	30	4	83	0	10/1	Schwarz	
259-211	0	-	300	0	0	8/14	Brennan	5
	9,840	47,396	-	10,926	70	10/6	Weir Count	
259-221	0	10,000	0	0	0	8/14	Prokopowich	1
259-222	0	18,000	2,000	0	0	8/14	Prokopowich	3
259-223	0	18,000	0	0	0	8/14	Prokopowich	3
	0	0	0	594	0	10/22	Schwarz	
259-224	0	350	0	150	0	8/7	Brennan	1
259-231	0	85,000	15,000	0	0	8/18	Prokopowich	11
	0	11,690	0	-	0	10/1	Stone	
	3	0	0	2,450	0	10/31	Shaul	
259-234	0	2,000	0	0	0	8/14	Prokopowich	1
259-242	0	-	2,000	0	0	8/7	Brennan	9
	0	10,000	0	0	0	8/12	Prokopowich	
	0	55,000	0	-	0	9/10	Prokopowich	
	0	-	0	4,064	0	10/22	Motis	
259-243	0	1,300	0	0	0	8/7	Brennan	1
259-245	0	3,000	0	0	0	8/12	Prokopowich	3
259-251	0	6,000	0	0	0	8/12	Prokopowich	4
	0	52	0	1,043	0	10/2	Stone	
259-252	0	1,150	0	0	0	8/7	Brennan	1
259-254	0	35,000	0	0	0	8/12	Prokopowich	3
	0	0	0	16	0	10/22	Lynch	
259-255	0	0	0	0	0	8/7	Brennan	1
	9,853	316,178	19,308	19,525	70			53

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

Appendix L.8. Indexed peak salmon escapements for the Mainland District, by stream and species, in the Kodiak Management Area, 1997.

Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
262-101	0	0	0	0	0	8/14	Brennan	1
262-102	0	1,800	0	0	0	8/14	Brennan	1
262-103	0	0	0	0	0	8/14	Brennan	1
262-108	0	0	500	0	0	8/14	Brennan	1
262-109	0	0	0	0	0	8/14	Brennan	1
262-112	150	0	0	0	0	8/14	Brennan	1
262-151	6,600	0	0	0	0	7/28	Brennan	3
		0	0	15,000	0	8/28	Prokopowich	
262-152	0	20,000	5,900	0	0	7/28	Brennan	3
	0	0	0	12,500	0	8/28	Prokopowich	
262-153	0	-	43,600	0	0	7/28	Brennan	2
	0	2,700	-	0	0	8/14	Brennan	
262-154	0	0	8,000	0	0	7/28	Brennan	2
262-201	0	0	0	0	0	8/14	Brennan	1
262-203	0	250	0	0	0	8/14	Brennan	3
	0	0	6,200	500	0	8/28	Prokopowich	
262-205	0	1,500	0	0	0	8/14	Brennan	1
262-207	0	0	0	0	0	7/28	Brennan	1
262-253	0	900	0	0	0	7/28	Brennan	1
262-271	0	2,200	-	0	0	7/28	Brennan	3
	0	6,300	23,000	0	0	8/28	Prokopowich	
262-272	0	200	0	0	0	7/28	Brennan	1
262-301	29,000	1,700	0	0	0	8/14	Brennan	3
262-351	2,400	0	0	0	0	8/14	Prokopowich	2
262-401	0	1,000	0	0	0	8/7	Prokopowich	2
262-402	0	9,000	0	0	0	8/14	Prokopowich	3
262-451	0	28,500	1,000	0	0	8/28	Prokopowich	2
262-452	0	100	0	0	0	8/28	Prokopowich	1
262-453	0	800	0	0	0	8/28	Prokopowich	1
262-501	0	2,700	0	0	0	8/7	Prokopowich	2
262-504	0	2,500	0	0	0	8/14	Prokopowich	2
262-551	0	-	7,000	0	0	8/7	Prokopowich	2
	0	57,000	0	0	0	8/14	Prokopowich	
262-602	0	0	33,000	0	0	8/14	Prokopowich	1
262-604	0	70,000	0	0	0	8/14	Prokopowich	2
262-651	0	78,000	0	0	0	8/7	Prokopowich	3
262-652	0	38,000	0	0	0	8/14	Prokopowich	3
262-653	0	25,500	0	0	0	8/14	Prokopowich	3
262-654	0	6,000	5,000	0	0	8/14	Prokopowich	2
262-655	100	0	0	0	0	8/14	Prokopowich	1
262-656	0	7,000	0	0	0	8/7	Prokopowich	1
262-701	0	35,000	0	0	0	8/7	Prokopowich	1
262-702	0	81,500	0	0	0	8/7	Prokopowich	1
262-705	0	15,000	0	0	0	8/7	Prokopowich	1
262-751	0	20,000	0	0	0	8/7	Prokopowich	1
262-752	0	10,000	10,000	0	0	8/7	Prokopowich	1
262-801	0	28,500	0	0	0	8/7	Prokopowich	1
262-802	0	76,000	0	0	0	8/7	Prokopowich	1
262-803	0	8,000	0	0	0	8/7	Prokopowich	1
262-851	0	138,500	20,000	0	0	8/7	Prokopowich	1

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Stream	Number of fish ^a					Date	Observer	Number of Surveys
	Sockeye	Pink	Chum	Coho	Chinook			
262-852	0	25,000	0	0	0	8/7	Prokopowich	1
262-853	0	0	5,300	0	0	8/7	Prokopowich	1
262-854	0	20,000	10,000	0	0	8/7	Prokopowich	1
262-859	0	0	6,000	0	0	8/7	Prokopowich	1
262-860	0	1,700	0	0	0	8/7	Prokopowich	1
262-951	0	0	5,000	0	0	8/7	Prokopowich	1
262-952	0	16,500	1,000	0	0	8/7	Prokopowich	1
	38,250	839,350	190,500	28,000	0			79

^a Peak indexed escapement estimate or cumulative escapement count through a weir. Peak indexed escapement for sockeye, chum, and coho salmon is simply the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed is estimated as the larger of either the highest daily survey count or the sum of two counts which are 30 or more days apart. This is done to compensate for the longer stream life of pink salmon.

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