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CHIGNIK MANAGEMENT AREA
ANNUAL FINFISH MANAGEMENT REPORT,
1996

By

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and

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CHIGNIK SALMON FISHERIES

Introduction

The Chignik Management Area (CMA) includes all coastal waters and inland drainages of the northwest Gulf of Alaska between Kilokak Rocks and Kupreanof Point on the Alaska Peninsula (Figure 1). The Alaska Peninsula Management Area to the west and the Kodiak Management Area to the east borders the CMA. The CMA includes over 100 salmon producing streams; the Chignik River system being the largest producer (Figure 2).

The CMA is divided from east to west into five districts, the Eastern, Central, Chignik Bay, Western, and Perryville Districts (Figures 3-4). Within the CMA commercial and subsistence salmon are the economic mainstay for five villages: Chignik Lake, Chignik Lagoon, Chignik Bay, Perryville, and Ivanof Bay (Figure 3). Although permit holders and crewmembers reside in all the villages, shoreside processing is located only in the City of Chignik.

Purse seines are the only legal commercial salmon gear type allowed within the CMA. In 1996, a total of 100 limited entry salmon permits were actively fished in the CMA (Table 1) with 80% of the permit holders claiming Alaska residency (Table 2).

Five species of Pacific salmon are commercially harvested: chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, pink *O. gorbuscha*, chum *O. keta*, and coho *O. kisutch* salmon. The Alaska Department of Fish and Game (ADF&G), Commercial Fisheries Management and Development Division (CFM&DD), manages the CMA salmon commercial fisheries to achieve biological escapement goals (BEG's) by species while allowing for an orderly harvest of surplus salmon.

This annual report adds to a report series dating back to 1922 and utilizes historic electronic databases post 1970. Disparities between previously reported catch and escapement statistics and those presented here can be attributed to the editorial objective of providing the most accurate information available.

Overview of the 1996 Salmon Season

1996 Catch Overview

The 1996 Chignik Management Area commercial salmon fishing season was characterized by a high number of fishing days (70) distributed throughout the season as follows: 17 days in June, 19 days in July, 24 days in August, and 10 days in September (Tables 3-4). The first commercial deliveries occurred on June 10 and the last were on September 16. The fishery was open almost continuously from June 10 until closed on July 22. The fishery remained closed until July 30 to allow escapement to the Chignik Lake run. In August, openings in the Western District were restricted by Section to encourage escapement and discourage the waste of salmon (See next paragraph). In September most of the fishing effort was in Chignik Lagoon, and the 1996 commercial fishing season was closed on September 21. This closure was in response to subsistence users concerns about late season sockeye salmon abundance as daily catches fell below a thousand fish even though as many as six boats were fishing.

Local processors could not utilize pink or chum salmon due to poor market conditions, so area restrictions were placed on Chignik fishers. To comply with the Waste of Salmon Regulation (5 AAC

93.310), seiners were limited to the Chignik Bay and Central Districts where historically over 80% of the sockeye salmon have been caught. However, the Eastern, Western, and Perryville Districts were opened later in the season when fishers secured an all-species salmon market with a processor from outside the area.

During most of 1996, Chignik managers implemented the following schedule for the Lagoon openings: 1) initial openings were only allowed up to south of the Hume's to Chignik Island markers, 2) after 24 hours the markers were then moved to Mensis Point, which is in the mouth of the Chignik River. This management action seems to have improved sockeye salmon quality to the point that processors indicated a significant quality boost for Lagoon sockeye salmon. Quality likely improved because salmon holding between Hume's and Mensis Point were given an extra day to migrate upriver and escape the fishery.

The total 1996 commercial salmon harvest (all-species) in the CMA of 2.4 million salmon (Tables 3-6), processed by five companies (Table 7), is approximately 0.7 million fish less than the 1987-1996 average catch of 3.1 million fish (Table 8 and Figure 5).

Catches for all-species, except for sockeye, are below the 1986-1995 averages (Table 8). Comparing the 1996 commercial salmon catch by species to the average catch from 1986-1995 is as follows: the chinook salmon catch of 3,105 is 55% lower, the sockeye salmon catch of 1,958,353 is 24% higher, the coho salmon catch of 193,226 is 6% lower, the pink salmon catch of 183,806 is 84% lower, and the chum salmon catch of 99,791 is 51% lower.

Salmon caught during 1996 are ranked relative to 37 years of catches from 1960-1996 as follows: the 1996 chinook salmon catch is ranked thirteenth highest, the 1996 sockeye salmon catch is ranked fourth highest, the 1996 coho salmon catch is ranked seventh highest, the 1996 pink salmon catch is ranked thirteenth highest, and the 1996 chum salmon catch is ranked the twenty-seventh highest (Table 8).

Actual catches are lower than the preseason forecast for chinook salmon (56% lower) coho salmon (8% lower), pink salmon (86% lower), and chum salmon (57% lower). While sockeye catches are higher than the forecast, exceeding the forecast by 9% (Table 8 and Appendix A.1-A2).

The size of the CMA 1996 sockeye salmon were larger than those sampled in recent years. The average weights by day calculated from Chignik Lagoon fish tickets were higher at the beginning of the season (8.1lb average through June 15) as compared to the season's middle (7.5 lb average, July 1 - July 7) and end (6.7 lb average, September 1 - September 7) (Table 4-6).

1996 Escapement Overview

The Chignik weir was operational from May 27 until September 4, which is the latest date that salmon have been counted since the late 1950s. Although this is the third year of using the underwater video cameras and taping system, placement of the camera within deep river channels has improved the use of this new technology. Confidence in separating salmon to species was gained in separating coho, pink, and chum salmon from sockeye salmon.

Chinook escapement is estimated at 3,488 to the Chignik River, 2,038 fish above the established BEG of 1,450. Sockeye escapement to the Chignik Lakes System is estimated at 749,137 fish, 99,137 over the BEG of 650,000 established from June 1 through August 31 (Tables 9-11). Pink (6,030) and coho (16,843) escapement is also estimated through September 4 as they pass through the Chignik River

weir (Table 12). For all other streams, pink, chum, and coho escapement estimates are assessed by aerial survey (Table 9). The 1996 pink salmon escapement of 1,956,357 is the second largest since 1960. Chum escapement of 368,400 is the seventh highest since 1960 and above average for most major streams. Aerial surveys for coho are incomplete and an area wide estimate is not offered.

1996 Exvessel Value

The exvessel value of the 1996 commercial salmon harvest is \$13.2 million, about \$4.3 million less than the 1986-1995 average exvessel value of \$17.5 million (Table 13 and Figures 6-7). The 1996 value per permit holder of approximately \$132 thousand is approximately 42 thousand less than the 1986-1995 average.

Other Important Events of 1996

Most Recent Board of Fish Actions First Initiated in 1996. In 1996 the Board of Fisheries closed waters around Kupreanof Point; the dividing line between Area M (South Peninsula) and Area L (Chignik). These closed water areas will be in effect between July 6 and August 31. This area was closed because Area M and Area L fishers could not resolve a continuing complaint brought several times before the Board concerning interception salmon issues on both sides of the area boundaries.

New Road Between the Chignik Lake Village and the Chignik Weir. A new road between the Chignik Lake Village and the Chignik weir was built this year. This probably alleviated some boat traffic and fish escaping through the weir gate. As a consequence, more sockeye were likely forced through the gateway portals to be visualized by the aid of a camera and counted rather than counted through the boat gate. The road helped in the transfer of fuel and fishing gear to and from the Chignik Lake Village.

Chinook Salmon

Background

The CMA chinook salmon catch is limited primarily to the Chignik Bay District, and the escapement is limited primarily to the Chignik River system (Table 3, 9). The Chignik River is the largest chinook salmon system on the south side of the Alaska Peninsula (Figure 2). There is no directed chinook salmon fishery within the CMA, but incidental harvests peak in July as fishers target sockeye salmon.

A brood table, based only on a few years of age class data from small sample sizes, has been used to establish an initial BEG of 1,450 fish. To ensure the BEG, a weir count of 1,950 fish must be achieved which apportions 1,450 fish for spawning and 500 to the sport fishery.

1996 Forecast

The chinook harvest forecast of 7,000 fish approximates a 10-year catch average. The chinook harvest is also dependent upon the amount of fishing time allowed in July to harvest sockeye salmon.

Historical Escapement and Harvests, and 1996 Management

Chinook salmon runs (catch and escapement) have ranged from a low of 927 fish in 1974 to a high of 21,461 fish in 1993 (Table 14 and Figure 8). Commercial catches have increased from an average of

1,232 fish (1967-1976) to 6,918 fish (1987-1996) (Table 8). A corresponding increase in escapement has also occurred within the past ten years from an average of 1,217 fish (1967-1976) to 3,619 fish (1987-1996) (Table 14).

The CMA chinook salmon harvest of 3,105 fish was the thirteenth highest since 1960 and 3,813 fish less than the 1986-1995 average of 6,911 (Table 14 and Figure 8). The harvest occurred from June 10 to September 3 with a peak harvest of 230 on June 29 (Table 4).

The 1996 chinook salmon escapement of approximately 3,488 fish was approximately 144 fish less than the 1986-1995 average escapement of 3,632 (Table 14) and about 2,038 fish above the escapement goal of approximately 1,450 fish. However, the escapement counts were not adjusted for chinook salmon removed by the sport fishery, or those that spawned below the counting weir.

The total exvessel value of the 1996 chinook salmon harvest was estimated at \$25 thousand, averaging \$2 hundred per permit holder (Table 13 and Figure 6-7).

Sockeye Salmon

Background

Economically, sockeye salmon are the most important commercial salmon species in the CMA. The commercial salmon fishery targets two runs of sockeye salmon that return to the Chignik Lake and Black Lake systems. Sockeye salmon destined for the Chignik-Black Lakes system are also intercepted outside the CMA in two historic fisheries: east in the Cape Igvak Section of the Kodiak Management Area; and west in the Southeastern District Mainland of the Alaska Peninsula Management Area.

Although most CMA sockeye salmon production originates from the Chignik-Black Lakes system, some spawning activity does occur in the Eastern District, primarily in the Aniakchak River tributaries (Albert Johnson Creek) and Surprise Lake. Tagging studies conducted over several years in the Aniakchak Bay and Cape Kumlik areas, indicate that sockeye salmon harvested in these waters are almost exclusively bound for the Chignik-Black Lakes system (Lechner 1969). Consequently, the Eastern District management strategy is based on the run strength of the Chignik-Black Lakes system and opens during June concurrently with the Chignik Bay and Central Districts. This management strategy has been approved by the State of Alaska Board of Fisheries and enacted into regulation as the Eastern District Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet 1992-1996 edition).

The BEG's for sockeye salmon are 400,000 fish for Black Lake and 250,000 fish for Chignik Lake. Commercial fishing time for sockeye salmon is regulated based on achieving interim threshold escapement goals by specific dates for each run. Achieving these thresholds is complicated due to overlap of the two runs (the transition period) which generally occurs during the latter part of June to early July.

Annually, June 26 through mid July is the period of transition from early-run (Black Lake) to late-run (Chignik Lake) fish. Management biologists must assess the catch using age and stock composition to estimate which stock dominates during this period. Sampling effort is increased from once a week to every third day to assess the changing age and stock composition. Subsequent to sampling results, fishing time may be increased to harvest early-run fish or may be decreased to allow time for evaluating the late-run strength.

Two methods have been developed to estimate the daily proportion of each run during the transition period. The first is based on tagging studies conducted from 1962-1966 (Dahlberg 1968). These studies allowed biologists to develop an average time of entry (ATOE) curve to apportion the two Chignik sockeye salmon runs into the early and late-run components. The second method is based on differential growth between juvenile salmon rearing in Black Lake and Chignik Lake (Burgner and Marshall 1974, Conrad 1983). Sockeye salmon fry rearing in Black Lake (early run) emerge earlier and grow at a faster rate than fry rearing in Chignik Lake (late run) (Narver 1966). The disparity in growth rates between Black Lake and Chignik Lake juvenile salmon is reflected in their scale patterns, which when measured, provides a means to separate Black Lake from Chignik Lake sockeye salmon stocks.

This latter method, scale pattern analysis (SPA), is currently used inseason and postseason to assign sockeye salmon to their stock of origin. After the sockeye age composition is determined, models for the dominant age classes (age-1.3 and -2.3) are constructed using two types of functions: linear discriminate (LDF) and quadratic discriminate (QDF). The model that provides the highest balanced classification accuracy is then selected for stock apportionment. However, the inseason age-1.3 fish cannot be directly assessed because the Chignik Lake scale standards cannot be collected until after August 1. Postseason historical age-1.3 age and stock compositions are analyzed and the best fit is applied for the current inseason stock composition estimates.

Generally, results from SPA analysis indicate that the Black Lake run occurs between late May until late July, peaking in the third week of June. By contrast, the Chignik Lake run starts in late May and peaks in late July, but can continue at diminished levels through November. These generalizations are corroborated, not only by scale pattern analysis, but also from Black River weir escapement data and tagging studies (Dahlberg 1968). Subsistence users have noted that in February a few sockeye salmon spawn in springs of the Clark River (Figure 2).

In practice when constructing SPA models, the sockeye stocks are apportioned using scales that are randomly sampled from the Chignik Lagoon commercial fishery (unknowns, n=100). The standards (knowns, n=200) are seined from the outlet of Black Lake (mid June) and sampled from the Chignik Lagoon commercial fishery (post July 30) when approximately 100% of the salmon are destined for Chignik Lake. However, when the first run is proportionally much larger than the second, the Black Lake run may constitute a greater proportion of the escapement after July 30 than is now being modeled. In short, fish could be apportioned to Chignik Lake rather than to Black Lake because the current computer program assumes July 30 as 100% apportionment to Chignik Lake.

Inseason estimates are based on age-2.3 sockeye salmon standards collected from Black Lake in June and from the previous year's post July 30 age-2.2 fish which represents this year's age-2.3 Chignik Lake sockeye salmon. Inseason estimates for age-1.3 fish are not possible because the previous year's post July 25 age-1.2 salmon are too scarce to create adequate standards. Therefore, postseason estimates are considered more accurate than inseason because they include standards for both major age classes (age-1.3 and -2.3).

The age composition of the Black Lake run is typically dominated by ages-1.3 and -1.2 fish, and the Chignik Lake run by ages-2.3 and -2.2 fish. Historically, it is unusual for the early run to have many age-2.2 fish or the late run to have a very large percentage of age-1.2 fish (Conrad 1983).

Spawning distribution of the sockeye escapement is determined by aerial surveys, which have been conducted almost every year since 1960.

1996 Forecast

The preseason Black Lake run forecast is based on the historical relationship between the prior year's total return of age-1.2 fish, the average length (mid-eye to fork of tail) of the prior year's age-1.2 male fish, and the magnitude of the age-1.3 and -2.3 run component. These variables are used within a multiple linear regression forecast model (Appendix A.1-A.2, and B.1). The total sockeye forecast for the Black Lake sockeye run was expected to be 1.4 million fish. A common property harvest of approximately 1.0 million sockeye salmon was estimated above the BEG of 0.4 million fish.

The Chignik Lake (late-run) forecast accuracy has historically been variable and construction of a model, such as the one used for Black Lake (early run), has been unsuccessful. The late-run forecast estimate is based on the average return per spawner estimate made for each age class since 1970 (Appendix A.1, A.2, and B.2). The total sockeye run forecast to Chignik Lake was expected to be 1.6 million fish. A common property harvest of approximately 1.35 million sockeye salmon was estimated above the BEG of 0.25 million fish.

Historical Escapement and Harvests, and 1996 Management

Inriver Management. The Chignik River weir is located three miles upstream from Chignik Lagoon and during 1996 was operational from May 27 through September 4. To ensure that the weir remained fish tight until removal, weekly maintenance dives using SCUBA gear were made on the weir face to clean video cameras, to repair damage, or to check erosion beneath the aluminum panels.

Funding for weir operation in late August and September was made available by the Oil Spill Trustee Council. Although this is the third year of using the underwater video cameras and taping system, placement of the camera within deep river channels has improved the use of this new technology. Funds have been made available to purchase an entire new video system for backup and replacement purposes. Confidence in species identification was gained when separating coho, chinook, pink, and chum salmon from sockeye salmon.

Placement of Markers in Chignik Lagoon. During the winter of 1995/1996 in response to the Governor's request for suggestions from processors, fishers, and the department to improve quality, local processors forwarded a plan they believed would improve the quality for (primarily) sockeye salmon. This included water marked fish in the Chignik Lagoon and descaled fish caught on the capes in all other districts. Processors advanced a proposal to modify openings to 16 hours on and 8 hours off, and to restrict fishing in the Chignik Lagoon south of a line drawn from the old Columbia Ward's cannery. During a conference call between processors, fishers, and the department, the proposal was modified to provide more flexibility on allowable fishing time, and the area restriction line in Chignik Lagoon was modified to allow fishing south of the Hume's Point to the Chignik Island markers. However, fishers seining outside the Lagoon felt that restrictions in time would make them less productive. Many Lagoon fishers were not actively seeking change, and the department felt that the restricted area was too large and would actually serve as a reservoir and staging area for sockeye salmon which could further complicate the flow of escapement and consequent management decisions. Further discussions at a Chignik Bay town hall meeting were pursued but there was no new agreement between the interested parties. Chignik managers felt some changes could alleviate some of the quality problems in the Lagoon and provide for an even flow of escapement. During most of 1996, Chignik managers implemented the following schedule for the Lagoon openings: 1) initial openings were only allowed up to south of the Hume's to Chignik Island to Green Point markers, and 2) after 24 hours the markers were then moved to Mensis Point, which is in the mouth of the Chignik River. This management action seems to have improved sockeye salmon quality to the point that processors

indicated a significant percentage quality boost in Lagoon sockeye salmon that could be graded as number ones. Quality likely improved because salmon holding between Hume's and Mensis Point were given an extra day to migrate upriver and escape the fishery.

Fishery Chronology for Early June Inseason Management of Chignik Sockeye Salmon. Annually, in accordance with the annual management plan, commercial sockeye salmon fishing begins if the cumulative sockeye salmon escapement exceeds the interim goal of 40,000 fish prior to June 12 (Appendix C), and is accompanied by a strong buildup of sockeye salmon within Chignik Lagoon (Owen and Sarafin 1996a). In 1996, the commercial fishery was opened on June 10 when the June 8 test fishery indicated a significant sockeye salmon buildup in Chignik Lagoon, and the June 9 Chignik weir escapement count of 66,277 surpassed the June 14 interim escapement goal of 50,000-65,000 (Table 11, Appendix D).

These criteria prompted a commercial fishery opening, not only in the Chignik Bay District, but also a concurrent opening in the Central and Eastern Districts. In June, these three districts are required to open concurrently as approved by regulation by the Board of Fisheries as described in the Eastern District Salmon Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet, 1996-1998 edition).

This first opening was extended four times until June 15 because interim escapement goals were being met and sockeye catches averaged over 41,500 a day. From June 10 to June 15, 249,644 sockeye salmon were caught (Table 4). When escapement began to lag, the commercial fishery was not extended beyond June 15.

A test fishery was taken on June 16 to assess sockeye salmon in the Chignik Lagoon. This test fishery was used to determine when to reopen the commercial fishery while ensuring that interim escapement goals would not be under or over exceeded. Escapement increased throughout the day on June 17, and the test fishery from the previous day indicated a significant sockeye salmon buildup in the lagoon. Sockeye escapement, 119,000 as of 2:00 p.m. June 17, surpassed the interim goal for June 16 of 75,000-100,000 (Table 11, Appendix C). Consequently, a commercial fishery opened in the Chignik Bay, Central, and Eastern Districts for 24 hours on June 17 and was extended until June 20 as interim escapement goals were surpassed. During this period 375,371 sockeye salmon were caught (Table 4).

On June 20, the sockeye daily escapement waned to only 7,175 fish; and the fishery was closed. The June 21 test fishery showed a sockeye buildup in Chignik Lagoon, and escapement as of the afternoon of June 22 was 23,000. Sockeye escapement was anticipated to surpass the upper end of the interim escapement goal for June 22 of 250,000 (Table 11, Appendix C). These criteria warranted a 48-hour commercial fishing period where 173,797 sockeye salmon were caught (Table 4).

Because sockeye escapement fell to 3,629 fish on June 24, the commercial fishery was not extended so escapement could recover (Table 11). Escapement recovered by the afternoon of June 26 and was anticipated to surpass the June 29 upper escapement goal of 325,000. The fishery was opened on June 27 and continually extended until July 9 because the Black Lake escapement goal of 400,000 was surpassed on July 1 (Table 11, Appendix C). However, on July 1, the Eastern District was closed to facilitate the evaluation of the transition period between the first and second runs as stated in the Eastern District Salmon Management Plan (5 AAC 15.360) (ADF&G Regulation Booklet 1996-1998 edition). During this commercial fishing period from June 27 to July 9, 719,416 sockeye salmon were caught (Table 4).

The fishery was not extended beyond July 9 to allow for an increased flow of escapement through the weir. To bolster sockeye escapement, which had averaged only 3,879 per day from June 27-July 9, the

fishery was kept closed July 10 and July 11 (Table 11). The fishery was then opened from July 12–July 15 because preliminary data from SPA estimated Chignik Lake escapement as surpassing the July 12 interim escapement goal of 75,000 fish. During this commercial fishing period, 105,584 sockeye salmon were caught (Table 4).

Inseason Scale Pattern Analysis of Chignik Sockeye Salmon. During 1996, run transition occurred on July 14 (50% Black Lake / 50% Chignik Lake), as determined by inseason scale pattern analysis (SPA) and age composition data (Table 15-17). The inseason SPA model with the highest and most balanced classification accuracy was the linear discriminate function (LDF). It has a mean classification average for age-2.3 sockeye salmon of 78%. Scale samples (8,429) collected from the commercial fishery in Chignik Lagoon were utilized to determine age composition (Table 16). The proportion of age-1.3 fish peaked at 71% on June 21, trailing off to only 3% at season's end (Table 16 and Figure 9). Age-1.2 fish were not abundant, peaking at 3% on June 21. Age-2.3 fish peaked July 18 at 62% and then diminished to 39% at the end of the run. In early August, the percentage of age-2.2 sockeye salmon increased from 15% August 1 to 32% September 1.

Fishery Chronology for the Late Season Sockeye. From July 15 on, the management priority shifted towards achieving escapement goals for the Chignik Lake run (late run). On the morning of July 17, sockeye escapement was estimated at nearly 100,000 which was on track to exceed the July 19 sockeye interim escapement goal of 100,000-115,000 (Table 17, Appendix C). Beginning July 18, a 48-hour fishery was warranted in the Chignik Bay and Central Districts and was extended until July 21. The Perryville District was opened for the first time on July 19 when chum escapement was at levels that warranted a fishery. The Eastern District remained closed because the department is required to close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs as described in the Eastern District Salmon Management Plan 5 AAC 15.360. From July 18-July 21, 86,437 sockeye salmon were caught (Table 4).

From July 15 on, sockeye salmon commercial fishing was restricted in the Eastern, Western, and Perryville Districts until fishers secured an all-species market that would utilize all salmon species. Even then, fishing was restricted to a limited area so area fishers would not violate the wanton waste law as described in Waste of Salmon (5 AAC 93.310). Cape restrictions were utilized during July in Kujulik Bay to promote pink and chum escapement into bay streams. Cape restrictions at Cape Ikti were utilized to promote pink and chum escapement into Dorner Bay streams.

During late July the peak of the second run, that eventually spawns at Hatchery Beach in Chignik Lake (Narver, 1966), moves through the CMA to escape past the Chignik weir. However, in 1996 this part of the run was weak; from July 22 until July 29, the CMA fishery remained closed because sockeye escapement lagged. Finally on July 29, the Chignik Lake interim escapement goal of 200,000 was anticipated to be exceeded on July 30 (Table 17, Appendix C). The Chignik Bay and Central District opened on July 30 and were extended until August 5 when escapement slowed to 841 on August 4. The Dorner Bay and Mitrofanina Sections of the Western District and the Perryville District opened to commercial salmon fishing from July 31-August 6. Pink and chum escapement to the Perryville District was on track for this time of the season, but restrictions in the Western District were utilized to encourage escapement to some of the smaller streams. From the July 30-August 6 commercial fishing period, 64,791 sockeye salmon were caught (Tables 4-5).

Chignik Lake sockeye cumulative escapement was 235,086 on August 8 and at the escapement rate evident during early August, the 50,000 escapement goal appeared attainable (Table 17, Appendix C). As a consequence, the Chignik Bay and Central Districts opened August 9-13; and the Castle Cape Section, Mitrofanina, and Dorner Bay Sections of the Western and the Perryville Districts were reopened

August 10-13. From the August 9-August 13 fishing period, 47,137 sockeye salmon were caught (Table 4).

On the afternoon of August 14 at 2:00 p.m., second run sockeye escapement through the weir was approximately 255,000, with 39,717 salmon escaping post July. At this rate of escapement, the Chignik Lake sockeye salmon interim goal of 50,000 during August was expected to be easily achieved (Table 17, Appendix C). Accordingly, the Chignik Bay and Central Districts were open to commercial fishing from August 15-19 and extended from August 19-21. The Mitrofanina, and Dorner Bay Sections of the Western and the Perryville Districts were reopened August 16-20 and extended August 20-22. From the August 15-22 commercial fishing period, 63,266 sockeye salmon were caught (Tables 4-5).

From mid August on, all closures were utilized to promote sockeye salmon escapement for subsistence purposes to the Chignik Lake drainage, specifically to the Clark River. On August 24 and then again on August 30 the commercial fishery opened for 4 day fishing periods. The Chignik Bay, Central, Western, and Perryville Districts opened because the Chignik Lake sockeye escapement on August 23 (68,917) and August 29 (82,347) was above the August sockeye escapement goal of 50,000. Sockeye catches from August 24-28 were 35,549 and from August 30-September 3 were 23,946 (Tables 4, 5, and 17, Appendix C).

The Chignik Bay, Central, Eastern, Western, and Perryville Districts opened to commercial fishing from September 7-11 and September 14-16. A fishery opening was warranted in the Chignik Bay and Central Districts because the sockeye cumulative escapement of 314,204 on the morning of September 4, surpassed the escapement goal to Chignik Lake of 250,000 through August 31 (Table 17, Appendix C). In outside districts, pink escapement had either surpassed or was near each stream escapement goal. Also, the coho catch rate during the season was high enough to indicate that the coho run strength was adequate to support a fishery. From the commercial fishery of September 7-11, 7,633 sockeye salmon were caught and from the September 14-16, 1,465 sockeye salmon were caught (Table 4).

The Chignik Management Area closed to commercial salmon fishing for the 1996 season on September 21. The season closed to conserve sockeye salmon for subsistence use in the Chignik Lake watershed. This decision complied with a compromise agreement between commercial and subsistence users that addresses the commercial use of the sockeye salmon resource after subsistence needs are met in Chignik Lake and Clark River. The agreement states that after September 15, if subsistence users have a concern about the availability of sockeye salmon for subsistence use, then the commercial fishery could be curtailed. Since the commercial catches were low (100 fish per boat), the department concurred with the subsistence users that the sockeye resource may not have been sufficient to cover subsistence needs and closed the fishery for the 1996 fishing season (Tables 4-5, and Appendix D).

The exvessel value of the sockeye salmon harvested in the CMA was approximately \$12.6 million (Table 13 and Figure 6). The average value per permit holder was \$126 thousand (Figure 7).

Cape Igvak Sockeye Salmon Fishery. The Cape Igvak fishery harvested an estimated 308,327 Chignik bound sockeye salmon through July 25 (Table 18). This represented 14.4% of the total Chignik salmon harvest through July 25, 0.63% less than the 15.0% allocated by regulation (ADF&G 5 AAC 18.360. Cape Igvak Salmon Management Plan) (ADF&G 1996-1998 edition). The Chignik bound harvest after July 25 in the Cape Igvak area was estimated at 1,216 sockeye salmon for a total season harvest of 309,543 fish (Table 19).

Southeastern District Sockeye Salmon Fishery. The Southeastern District Mainland fishery harvested an estimated 127,201 Chignik bound sockeye salmon through July 25 (Table 18). This represented

5.93% of the total Chignik salmon harvest through July 25, 0.07% less than the 6.0% allocated by regulation (ADF&G 5 AAC. 09.360 Southeastern District Salmon Management Plan) (ADF&G 1996-1998 edition). Catches of Chignik bound sockeye salmon in the Southeastern District Mainland area after July 25 were estimated at 56,120 for a total of 183,321 sockeye salmon (Table 18).

Postseason Scale Pattern Analysis of Chignik Sockeye Salmon. Postseason SPA age-1.3 and -2.3 models, that were used to assign sockeye salmon to Black Lake or Chignik Lake, were created using linear (LDF) and quadratic (QDF) discriminant functions to evaluate which type of analysis would provide the best classification accuracy. The linear discriminant models for the age-1.3 and 2.3 sockeye salmon provided the highest balanced classification accuracies of 85% and 82%. Estimates using these models were assigned as percent composition to Black Lake or Chignik Lake for each commercial sample (Tables 20-21). Linear interpolation of percent composition between sample dates was calculated for catch and escapement values and adjusted to Chignik Lagoon dates (Table 22) resulting in daily escapement and catch estimates for each stock (Tables 23-24).

The Black Lake sockeye salmon postseason SPA escapement estimate of 464,750 was 45,565 fish more than the inseason estimate (Table 17 and 25) and 64,750 more than the established Black Lake escapement goal of 400,000. These fish were reallocated by the postseason SPA from the Chignik Lake sockeye salmon escapement to Black Lake. Chignik Lake escapement includes not only fish counts estimated through the weir but also post weir estimates that are based on statistical analysis of the ratio of the Chignik Lagoon sockeye catch to escapement prior to weir removal. This relationship is then extrapolated to post weir escapement as long as the commercial fishery continues. The estimated Chignik Lake escapement until the commercial fisheries ended on September 16 was 284,387, 34,387 fish more than the 250,000 Chignik Lake escapement goal to August 31 (Table 26).

The discrepancy between the inseason and postseason escapement estimates most likely occurred because the inseason apportionment curve that transitioned from Black Lake to Chignik Lake on July 14 increased smoothly at an ever increasing proportion until only the Chignik Lake stock was present. In contrast, postseason analysis indicated that the apportionment curve transitioned briefly from Black to Chignik Lake on July 13, but dominance switched back to Black Lake from July 14 to July 20. Only after July 20 did the Chignik Lake stock clearly dominate in the postseason analysis (Table 17, Figure 10).

Major age classes as determined by SPA contributed to the escapement and catch of the Black Lake run as follows: age-1.3 (55.1% and 56.7%) age-1.2 (2.4% and 2.4%); age-2.3 (32.5% and 32.1%); age-2.2 (2.3% and 2.0%), age-3.3 (1.1% and 0.9%)(Table 25 and 27). Major age classes (in percent) as determined by SPA contributed to the escapement and catch of the Chignik Lake run as follows: age-2.3 (47.7% and 44.0%); age-1.3 (23.3% and 31.1%); age-1.2 (1.8% and 1.8%); age-2.2 (12.3% and 9.9%) and age-3.3 (9.9% and 8.1%) (Table 26 and 28).

Season Summary. In summary, the 1996 total sockeye harvest and escapement was 3.2 million fish (Tables 29-30; Figures 11-12). This was within the forecasted range of 2.2 to 3.8 million total fish return (Appendix A.1-A.2). The sockeye salmon run for Black Lake was 2.2 million fish and for Chignik Lake was 1.0 million fish. Total escapement to both lakes was 749,137 sockeye salmon with 464,750 apportioned to Black Lake and 284,387 apportioned to Chignik Lake (Table 30-31). Total catch to both lakes was 2.5 million sockeye salmon (includes Igvak and South Eastern District Mainland) with 1.7 million apportioned to Black Lake and 0.7 million apportioned to Chignik Lake (Table 30). Total sockeye harvest within the Chignik Management Area was 2.0 million fish at a value of \$12.6 million. Sockeye harvests by district within the Chignik Management area are as follows: 51% in Chignik Bay District, 38% in the Central District, 7% in the Eastern District, 2% in the Western

District, and 1% in the Perryville District (Table 3). Harvest of Chignik Bound sockeye salmon to July 25 in the Chignik Management Area was 1,710,249 (79.7% of the total) to Cape Igvak was 308,327 (14.4% of the total) fish and to Southeastern District Mainland was 127,201 (5.9% of the total) fish.

The Chignik Management Area sockeye salmon were unusually large this season. The average weights by day calculated from fish tickets in the Lagoon were higher at the beginning of the season (8.1 lb average) as compared to the season's middle (7.5 lb average) and end (6.7 lb average) (Table 4-5).

Pink and Chum Salmon

Background

Pink and chum salmon production in the CMA is characterized by variable escapements and returns per spawner for both species (Tables 32-49). The variability of the returns can be attributed to the physical morphology of the river and stream systems, which are characterized by loose substrates and steep gradients. These systems are impacted by fall, winter, and spring floods that may cause streambed scouring, and can result in high egg and fry mortality (Arnie Shaul and Patrick Holmes, personal communication, ADF&G).

Openings in the Eastern, Western, and Perryville Districts from early July through August depend primarily on the abundance of pink and chum salmon (Figure 4). Whereas, openings in the Central and Chignik Bay Districts are based primarily on a directed fishery on the Chignik Lakes' sockeye salmon where pink and chum salmon are caught incidentally.

Management of the CMA pink and chum salmon fisheries is based on inseason aerial assessment of escapement (conducted annually since 1953) (Table 48), historical catch data, and catch per unit effort (CPUE) data. Aerial surveys of approximately 100 salmon streams, adjacent bays, and stream mouths are flown periodically throughout the season to provide the most current inseason escapement indices (Table 48-49). Postseason escapement indices are estimated for each stream from these inseason aerial observations using area-under-the-curve methodology (Johnson and Barrett, 1988). The estimates assume a 15-day average stream life for pink and chum salmon and a final escapement stream entry date of September 15 (Table 49).

In past years, there have been problems with harvests of immature chum and sockeye salmon which have prompted commercial salmon fishing closures in the Mitrofanina Section of the Western District in early July. However, during the 1996 season there were no reports of immature salmon in the fishery.

Currently, all salmon processed locally are for the fresh frozen market because there are no operational canning facilities. Consequently, to provide the quality required for fresh frozen processing, the fisheries are managed to intercept migrating fish prior to, or just as they reach terminal waters.

1996 Forecast

The 1996 preseason harvest projections estimated a catch of 1.3 million pink salmon and 230,000 chum salmon (Appendix A.1). The projected return of Western/Perryville Districts pink salmon was based on multiplying the average recruit per spawner for the previous ten years by the parent year escapement. For the Central/Eastern Districts the projection is based on the average of the run strength for the previous ten years. The largest pink catches should come from the Western/Perryville Districts and

could account for 70% of the projected total. However, unstable stream conditions in these districts have resulted in poor returns from excellent parent year escapements.

1996 Management and Harvests

Because weak salmon markets prevailed in 1996, in part from the over supply from the huge Western Region 1995 pink salmon runs, Chignik area processors were reluctant to buy pink and chum salmon during the 1996 season. Consequently, during 1996, the ADF&G implemented the Waste of Salmon regulation (5 ACC 93.310) to prevent the waste of salmon within the CMA (Appendix D.1-D.2, E.O. 23). ADF&G policy stated that Chignik permit holders could deliver fish in the Eastern, Western, and Perryville Districts only if they had secured a pink and chum salmon market. However, fishers could fish commercially in the Chignik Bay and Central Districts, traditional sockeye harvest areas, if they sorted unmarketable pink and chum salmon from the catch as the seine is brought aboard.

During 1996 in June, pink and chum salmon were caught incidentally in openings directed towards the harvest of sockeye. When the Chignik Bay District opened, the Central and Eastern District were opened concurrently as mandated by the Eastern District Management Plan (5 AAC 15.360) (ADF&G Com. Fish. Reg., 1996-1998 edition). Catches in the Chignik Bay, Central, and Eastern District from June 10-June 30 were 9,764 pink and 36,629 chum salmon (Table 5, Appendix D.1).

As a result of the invocation of the Waste of Salmon regulation during 1996, openings to outside districts were curtailed. For example, in the Eastern District, the last commercial opening occurred on July 1 and was not reopened because markets were not available to utilize this district's pink and chum resources. In the Perryville and Western Districts, as described in the CMA Management Plan, the first commercial opening may occur as early as July 6 but opened only after an all-species market was obtained in the Perryville District on July 19 and in the Western District on July 31 (Table 5, Appendix D.1).

The first commercial Perryville District fishery opened July 19 and closed on July 22 with all the other CMA Districts when Chignik Lake sockeye escapement began to lag. Another opening did not occur until July 31 when the Chignik Lake sockeye escapement goal of 200,000 had been surpassed. Openings in the Perryville District were allowed in August when the pink salmon escapement was on track or surpassed individual stream escapement goals. Commercial openings post August 25 had no commercial fisheries effort. Catches from commercial openings from July through August were as follows: from July 19-22, 21,685 pink and 6,887 chum salmon were caught; from July 31-August 6, 21,827 pink and 4,863 chum salmon were caught; from August 10-13, 8,933 pink and 962 chum salmon were caught; from August 16-22, 5,880 pink and 4,019 chum salmon were caught; and from August 24 to August 28 only (one actual fishing day, August 25) pink salmon and 245 chum salmon were caught (Table 5, Appendix D.1).

The first of seven commercial salmon openings occurred in the Western District when a few fishers secured a market from a processor from outside the area and when local processors also sent tenders to purchase pink and chum salmon. Fishing was restricted to the Mitrofanina and Dorner Bay Sections most of August with one opening in the Castle Bay Section from August 10-13. From August 24 on, when commercial openings occurred in the Western District, the entire district opened. The entire area was utilized because pink and chum escapement goals had been achieved and effort had decreased. Catches diminished for openings from from July 31 to September 10 as follows: from July 31 to August 6, 62,764 pink and 20,270 chum salmon were caught; from August 10 to August 13, 25,551 pink and 7,261 chum salmon were caught; from August 16 to August 22, 11,476 pink and 8,002 chum salmon were caught; from August 25 to August 28, 1,075 pink and 770 chum salmon were caught; and

from the two openings between August 31 to September 10, no pink or chum salmon were caught. The last openings in the Western District from September 14 to September 16 were not fished (Table 5, Appendix D.1).

In the Central District, pink and chum salmon were being sorted from the sockeye and coho salmon as the seine was brought aboard. Even so, the following catches were delivered: from July 1-9, 4,008 pink and 7,310 chum salmon; from July 12-15, 1,350 pink and 1,068 chum salmon; from July 19-21, 733 pink and no chum salmon; from July 30-August 5, 4,355 pink and 246 chum salmon; and from August 9-13, 2,768 pink and 628 chum salmon; and from openings from August 14, no pink and chum salmon were delivered (Table 5, Appendix D.1).

The total 1996 catch of 183,806 pink salmon is the lowest pink salmon harvest since the 1985 season (other than 1989, the oil spill year). The total catch is well below the projected 1.3 million pink salmon harvest, and is well below the 1986-1995 average harvest of 1,132,956 fish (Tables 8, 37 and Appendix A.1). The largest catch came from the Western District, totaling 100,871 fish; the smallest catch coming from the Chignik Bay, totaling 1,523 fish (Table 3). The harvest for pink salmon may have been close to the 1986-1995 average catch if market had been available or the salmon waste law had not been implemented for the Eastern, Western, and Perryville Districts.

The 1996 CMA pink salmon estimated total escapement of 1,956,357 fish was based on the area-under-the-curve method (Johnson and Barrett 1988) (Tables 9, 37, and Figure 13). The 1996 pink salmon escapement is the second largest since state management. The distribution and the comparative magnitude of the 1996 escapement to the 1986-1995 escapement average by CMA District is as follows: the Chignik Bay District escapement of 43,143 (Table 9) is approximately 17% greater than the average of 36,800 fish (Table 32), the Central District escapement of 237,144 is approximately 6% greater than the average of 223,100 pink salmon (Tables 33), the Eastern District escapement of 1,059,573 is approximately 37% greater than the average of 772,500 fish (Table 34), the Western District escapement of 220,797 is approximately 37% greater than the average of 126,400 fish (Table 35), and the Perryville District escapement of 395,700 is approximately 58% greater than the average escapement of 250,200 (Table 36).

The 1996 CMA chum salmon catch and escapement was 99,791 and 368,517. Like pink salmon, chum salmon escapement was based on the area-under-the-curve method (Johnson and Barrett 1988 (Table 43; Figure 14). The CMA harvest was approximately 130,209 below the forecasted harvest of 230,000 fish, and 105,921 below the 1986-1995 average harvest of 205,712 fish (Appendix A.1 and Table 8). Most chum salmon were harvested in the Central (26,125), Western (36,363), and Perryville Districts (16,696) (Tables 38-42). The chum salmon escapement to the following districts of the CMA are as follows: Chignik Bay (16,419), Central (45,103), Eastern (130,455), Western (44,527), and Perryville (132,613) (Tables 38-42).

The exvessel value of the pink and chum salmon harvested within the CMA was estimated at \$25 thousand and \$32 thousand (Table 13 and Figure 6). The average value per permit holder was \$2 hundred for pink salmon and \$3 hundred for chum salmon (Figures 7).

Coho Salmon

Background

Although a directed CMA coho salmon fishery begins in late August to early September primarily in the Chignik Bay District, coho salmon are also harvested incidentally in the directed sockeye, pink, and chum salmon commercial fisheries. Outside of the Chignik Bay District, the Western District has produced, for most years, the highest coho catches (Figure 15). Since 1992 the highest coho catches have come from the Western District. Commercial coho catches begin as early as June and have continued until the fishery closes, which could run by regulation until October 31. Total catches for the years 1976 to 1996 have ranged from 17,430 to 370,400 fish with an overall trend of increasing catches since 1960 (Table 8 and Figure 16).

Peak timing for coho catches differs when comparing cape offshore and inshore bay fisheries. Peak offshore catches are landed during the targeted pink and chum cape fisheries in late July while peak inshore catches occur in the Chignik Bay District in late August to early September (Tables 4-5, Figure 16). The early coho catches, occurring primarily in the Western and Perryville Districts, have similar average weights as those caught early in Chignik Lagoon. As the season progresses, coho salmon average weights increase dramatically in outside districts as well as the Chignik Bay District.

The Chignik Lakes coho run is the largest within the CMA and one of the largest within the entire Westward Region. Escapement has averaged (from 1986-1996 except 1989, the oil spill year) 58,240 fish, and the catch has averaged 64,596 fish. The relationship of coho catch and escapement prior to the removal of the Chignik weir was used to estimate coho escapement from September 5-September 16 to the Chignik Lakes system.

Other areas for high coho escapement concentrations are in Ivanof Bay of the Perryville District and several streams in the Eastern District. Overall, coho escapement monitoring in the CMA is sporadic due to the late timing of the run and logistics involved in monitoring the numerous area streams.

1996 Forecast

Harvest projections for Chignik Bay and outside catches are based on a 10-year average. The 1996 coho forecast is 210,000. However, coho harvests may be affected by the strength of the Chignik Lake sockeye run and the strength of the pink and chum runs. For example, a weak sockeye salmon second run (Chignik Lake) or a weak pink and chum run could severely curtail those fisheries and consequently, the incidental harvest of coho salmon.

1996 Management and Harvests

The Chignik Lakes coho escapement was estimated directly from weir counts through September 4 at 16,843 (Table 12). Post weir estimates using catch and escapement ratios prior to weir removal were estimated through September 17 at 22,055 for a total coho escapement of 38,898 (Table 12). Coho were difficult to see in streams in late August because of the dense cover of pink salmon schools that were still escaping into CMA streams. Late season coho aerial surveys were limited by bad weather and by limited flying hours because of an impending 100-hour supecub inspection (Table 48).

In the CMA in 1996, 193,226 coho salmon were caught and ranked as the seventh largest harvest since 1960 (Table 8 and Figure 16). This catch was about 16,774 fish less than the harvest projection of 210,000 fish. The largest catches came from the Western District (91,587) at the Mitrofanina Island

statistical area (69,727) surpassing the catches from the Chignik Bay District (45,361) or the Central District (35,237) (Table 38, and Figure 15). The highest catch day was on July 31 when 13,396 were caught with most of that (9,865) coming from the Mitrofanina Island statistical area. Late August catches of coho came mostly from the Chignik Bay District as catches in the Western and Perryville District declined (Tables 4-5). Very few coho were caught in the Eastern District because the Waste of Salmon regulation was implemented during the 1996 season resulting in no fishing after July 1.

The exvessel value of the CMA coho salmon harvest was \$447 thousand (Table 13 and Figure 6). The average value per permit holder was \$4 thousand (Figure 7).

Subsistence Salmon Fisheries

The CMA villages of Chignik, Chignik Lake, Chignik Lagoon, Perryville, and Ivanof Bay rely heavily on local salmon resources for subsistence. Salmon subsistence permits are issued to people in these villages through the Kodiak and Chignik ADF&G offices, Village Public Safety Officers, processors, and Subsistence Division personnel on assignment from the Anchorage ADF&G office. In 1996, 87% of the CMA subsistence permits issued were returned with harvest data. The ADF&G Subsistence Division estimates harvests by a stratified expansion design for each community. In 1996, the CMA subsistence harvest was estimated at 48 chinook, 7,357 sockeye, 2,126 coho, 2,204 pink, and 355 chum salmon (Table 50).

Personal Use of the Commercial Catch

1996 was the second year that Chignik permit holders were required to record commercially harvested salmon kept for personal use on a ADF&G fish ticket. A total of 40 chinook, 40 sockeye, 20 coho, 5,262 pink, and 21,100 chum salmon were designated as being utilized for personal use (Table 51). Chignik managers assume that most of the personal use pink and chum catch represents the mortality associated with the implementation of the Waste of Fish law, and the ADF&G policy of letting fishing proceed in the Central District if unsaleable salmon were sorted from the seine as they were being brought aboard.

CHIGNIK HERRING FISHERIES

Background

The earliest recorded herring *Clupea pallasii* fishery in the Alaska Peninsula region was in 1906. Although during the early herring fishery, Chignik area catches were combined with catches from North and South Peninsula areas and labeled as southwestern Alaska catches, annual herring catches did not exceed 500 tons. These herring were harvested with beach seines and marketed as a salted product. This early herring fishery ceased in the late 1930's and did not commence again until 1980, with the sac roe herring fishery.

Since 1980, the CMA area sac roe herring fishery has been a low effort, low yield fishery (Figure 18). Prior to 1984, harvests were concentrated in the Big River Section of the Eastern District. This area was closed to commercial herring fishing in 1985 and has remained closed to protect depressed stocks. This closure shifted effort into other areas of the CMA but harvests remained low.

Herring spawning schools that are in small geographic areas, generally a bay or lagoon are managed as discrete stocks. The projected annual harvest for each of these stocks is dependent on the previous year's biomass estimates at an exploitation rate of 0-20% (Owen and Sarafin 1996b). Preseason harvest projections may differ from actual harvest levels if inseason information (aerial surveys, catch per unit effort) suggests that the spawning biomass of a discrete stock differs significantly from anticipated levels.

1996 Management and Harvests

The 1996 herring sac roe season is characterized by one group of Togiak herring fishers prospecting in the Chignik area as they returned to their homeport. One boat delivered 6 tons from one Eastern District statistical area (Figure 18). No herring biomass estimates were made by the department because an airplane was not available.

OTHER SPECIES (NON-COMMERCIAL)

This was the first time Dolly Varden were enumerated and data published since ADF&G management in the 1960s. From the large amount of escapement counted, it is obvious that this species has the potential for an appreciable biological impact on other fish populations within the Chignik Lake system.

Over 54,000 Dolly Varden were counted through the Chignik weir from May 27 until the weir was removed on September 5 (Table 52). Escapement was consistently higher during the latter part of July compared to any other time frame.

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Table 1. List of permit holders who fished in the Chignik Management Area, 1996.

	Name		Permit Number		Residency	Vessel Name	ADF&G Number
1	ALECK	NICK	S01L56935	J	R	RESURRECTION	45469
2	ALEXANDER	JASON	S01L59000	W	NR	CAPTAIN JAY	21757
3	ANDERSON	AARON	S01L56203	U	R	VENTURE	33848
4	ANDERSON	AL	S01L57160	U	R	ALYSA JUNE	61634
5	ANDERSON	DAVID	S01L56415	U	R	GYPSY LADY	61550
6	ANDERSON	DEAN	S01L60114	M	NR	SIERRA GALE	60913
7	ANDERSON	EUGENE	S01L60601	G	R	RAY MAR	31492
8	ANDERSON	GEORGE	S01L57133	E	R	ALICE A	33375
9	ANDERSON	H.	S01L57501	K	R	JANET LYNNE	53370
10	ANDERSON	JULIUS	S01L55433	H	R	CHRISTINA J	41205
11	ANDERSON	RODNEY	S01L56936	B	R	ENDURANCE	64123
12	ASTOR	CRAIG	S01L59794	I	R	DREAMER	41317
13	BATTISHILL	FRANK	SO1L50045	K	R	PRINCESS DANETT	117
14	BECK	MARK	S01L55925	M	NR	COLUMBIA	56222
15	BRANDAL	ALEC	S01L55170	U	R	ALEXANDRIA	32586
16	BRANDAL	HENRY	S01L50032	K	R	GENITA	21855
17	BROWN	MALCOLM	SO1L55938	M	R	HYPATIA	62612
18	BUMPUS	PETER	S01L61910	L	NR	KIMBERLY DAWN	59651
19	CAMPBELL	DANIEL	S01L55731	X	NR	JULIE ANN	40262
20	CARLSON	AXEL	S01L57612	J	R	MISS MARIT	35863
21	CARLSON	DALE	S01L57473	V	R	LADY DIANE	43370
22	CARLSON	ERIC	S01L62210	Z	R	ERICA RAE	33957
23	CARLSON	ERNEST	S01L57125	P	R	DESPERADO	43775
24	CARLSON	EUGENE	S01L55520	P	R	LADY ANN	58085
25	CARLSON	GARY	S01L56192	Z	R	AARON C	21898
26	CARLSON	RODERICK	S01L57695	S	R	DIANA	51282
27	CARLSON	RODERICK	S01L57704	F	R	INLET WARRIOR	57904
28	COGWILL	JOHN	S01L57469	C	NR	VICTORIA	51091
29	CONSTANTINE	JOHNNY	S01L57808	I	R	ORIOLE	15888
30	CRONK	GLEN	S01L58603	C	NR	ROYAL LADY	38635
31	ENDRESEN	ANDY	S01L60183	F	R	MISS MELODY	61676
32	ERICKSON	CLARENCE	S01L56512	B	R	SHARON LEE	53266
33	GREGORIO	TONY	S01L58848	X	R	ANTOINETTE RENA	37548
34	GRUNERT	CLEMENS	S01L50332	L	R	ADVENTURESS	42335
35	GRUNERT	FRANK	S01L59851	X	R	KURT ELDON	61416
36	GRUNERT	MICHAEL	S01L55935	K	R	CAPT 'N SAM	59482
37	HARDER	PAUL	SO1L56589	I	NR	HULA	54974
38	HINDERER	RAEHEL	SO1L57376	O	R	ILLUSION	10567
39	HINDERER	WALLACE	S01L57085	S	R	RAEHEL LOUISE	41592
40	JOHNSON	PAUL	S01L56395	S	NR	SUSAN RAE	35956
41	JONES	MORRIS	S01L56405	W	NR	ISLANDER	39275
42	KALMAKOFF	ARCHIE	SO1L55361	H	R	DESERT STORM	38122
43	KALMAKOFF	HARVEY	S01L50090	M	R	OCEAN SPRAY	23636
44	KALMAKOFF	JOSEPH	S01L60614	G	R	SEA@ROGUE	11017
45	KASHEVAROF	WILLIAM	S01L57487	N	R	CHRISTINE K	54242
46	KOPUN	ALOYS	S01L57863	I	R	KAREY GALE	45995
47	KOSBRUK	BORIS	S01L58206	U	R	LADY HELEN	43200
48	KOSBRUK	HARRY	S01L56726	L	R	SAINT HERMAN	38528
49	KOSBRUK	IVAN	S01L50116	R	R	JELLY ROLL	45720
50	KULIN	STEPHEN	S01L60113	U	R	KRITARKA	63151
51	LIND	ELLIOT	S01L56872	O	R	LISA MARIE	35950
52	LIND	JOHNNY	S01L50223	W	R	ALEUT SISTERS	38404

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Table 1. (page 2 of 2)

	Name		Permit Number		Residency	Vessel Name	ADF&G Number
53	LIND	LARRY	S01L58308	N	R	CELTIC LADY	21853
54	LIND	RONALD	S01L57384	C	R	JESSICA MARIE	111
55	LOUNSBURY	BRETT	S01L58322	F	R	KARMA	31995
56	MCCALLUM	STEVEN	S01L55399	O	NR	GYPSY QUEEN	32397
57	MCKILLY	GABRIEL	S01L59493	O	R	DOROTHY M	32863
58	MERSHON	DANIEL	S01L61370	U	R	MAGNUM	42629
59	MERSHON	JOSHUA	S01L58818	F	R	LADY ANN	58085
60	MOORE	JEFFREY	S01L58578	P	R	RHEMA	55101
61	NELSON	ROBERT	S01L58425	P	R	SEA PRINCE	60848
62	ODOMIN	NICK	S01L57696	L	R	ELLA MAE	195
63	OGLE	LEONARD	S01L55311	R	R	CHALLENGE	61706
64	OLSEN	GARRETT	S01L58496	R	NR	ABSOLUT	21877
65	OLSEN	JEFFREY	S01L60115	F	NR	DENAKA	118
66	OLSEN	KNUD	S01L56418	W	NR	HEIDI LINEA	55822
67	ORLOFF	GEORGE	S01L59308	M	R	MARJONETTE	57946
68	PEDERSEN	ALVIN	S01L55953	V	R	MILLIE JO	37662
69	PEDERSEN	ARTHUR	S01L55954	N	R	SORCERESS	61758
70	PEDERSEN	AUGUST	S01L58126	H	R	SHARON ANN	59642
71	PEDERSEN	COREY	S01L64188	M	R	LINDA W	59487
72	PEDERSEN	HANS	S01L57171	K	R	SUSIE LYNN	40248
73	PEDERSEN	MARIUS	S01L64187	U	R	KAISHA LENA	57465
74	PEDERSEN	STANLEY	S01L60106	Z	NR	ALEUT KID	52522
75	PLETNIKOFF	ROBERT	S01L58077	F	R	RITA MARIA	35986
76	ROWLAND	ROGER	S01L63976	A	R	DESIDERATA	41160
77	SHANGIN	ANDY	S01L58145	K	R	SHARON DAWN	39351
78	SHANGIN	CLEMENT	S01L56733	H	R	MISS CLEMENTINE	38622
79	SHANGIN	DENNIS	S01L58178	G	R	MIRANDA LEIGH	21899
80	SHANGIN	EDGAR	S01L50123	N	R	NICOLE DANIELLE	21554
81	SHANGIN	RUSSELL	S01L57003	B	R	AMBER NICOLE	56291
82	SHANGIN	STEPHEN	S01L52949	G	R	ROBYN ANN	40484
83	SIEMION	MATTHEW	S01L56992	S	NR	SEA BREEZE	32361
84	SIEMION	THEODORE	S01L56322	H	NR	OUTSIDER	20453
85	SKONBERG	ARNOLD	S01L55477	R	R	LEANNA JEAN	45060
86	SKONBERG	CALVIN	S01L56228	C	R	ROSALIE	34184
87	SKONBERG	DARRELL	S01L55546	P	R	ALASKA ROSE	33614
88	SKONBERG	RALPH	S01L50205	L	R	MICHELE LEE	35698
89	SKONBERG	ROY	S01L58470	R	R	AMY RAE	42210
90	STEPANOFF	ANDREW	S01L60144	G	R	LAURA JUNE	28396
91	STEPANOFF	SAM	S01L50338	P	R	SONIA FRANCINE	33778
92	STEPANOFF	WALTER	S01L57091	W	R	MIRACLE GIRL	36629
93	SUYDAM	GLENN	S01L59615	J	R	ALEUT SON	53205
94	SUYDAM	LOWELL	S01L56680	K	R	STELLOR	39962
95	TAKAK	RICHARD	S01L57035	F	R	LADY LENA	6163
96	TEUBER	PAUL	S01L60121	I	NR	SONDRA	55545
97	VANWINGERDEN	MARK	S01L57296	B	R	KARISSE DAWN	58817
98	VEERHUSEN	DANIEL	S01L57662	X	R	FLAPPING EAGLE	61816
99	YAGIE	JERRY	S01L56797	N	R	NORTHWIND	36296
100	YAGIE	MARVIN	S01L57278	P	R	MAXINE	54909

Table 2. Residentiary status of permit holders in the Chignik Management Area, 1966-1996.

Year	Residentiary Status				Total
	Resident	Percent	Non-Resident	Percent	
1966	65	89.0	8	11.0	73
1967	73	88.0	10	12.0	83
1968	59	88.1	8	11.9	67
1969	57	83.8	11	16.2	68
1970	57	82.6	12	17.4	69
1971	64	83.1	13	16.9	77
1972	62	78.5	17	21.5	79
1973	63	81.8	14	18.2	77
1974	79	84.0	15	16.0	94
1975	72	83.7	14	16.3	86
1976	66	85.7	11	14.3	77
1977	74	84.1	14	15.9	88
1978	82	86.3	13	13.7	95
1979	87	86.1	14	13.9	101
1980	87	86.1	14	13.9	101
1981	87	84.5	16	15.5	103
1982	89	84.8	16	15.2	105
1983	84	84.0	16	16.0	100
1984	84	83.2	17	16.8	101
1985	85	84.2	16	15.8	101
1986	87	87.0	13	13.0	100
1987	89	87.3	13	12.7	102
1988	88	86.3	14	13.7	102
1989	86	84.3	16	15.7	102
1990	85	84.2	16	15.8	101
1991	85	83.0	18	17.0	103
1992	84	84.0	17	17.0	101
1993	85	83.3	17	16.7	102
1994	82	82.8	17	17.2	99
1995	80	80.0	20	20.0	100
1996	80	80.0	20	20.0	100
Averages					
1977-1986	85	85.0	15	15.0	100
1987-1996	84	83.5	17	16.6	101

Table 3. Commercial salmon catches in the Chignik Management Area by district, statistical area, and species, 1996.

District	Statistical Area	Species ^{a,b,c}					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Chignik Bay	27110	1,579	1,003,683	45,361	1,523	639	1,052,785
	Total	1,579	1,003,683	45,361	1,523	639	1,052,785
Central	27220	207	3,900	5,879	1,907	39	11,932
	27230	228	262,645	11,408	3,464	8,140	285,885
	27240	130	11,018	32	1,024	4,715	16,919
	27250	156	223,812	9,384	8,322	11,454	253,128
	27262	272	241,825	8,534	1,039	1,777	253,447
	Total	993	743,200	35,237	15,756	26,125	821,311
Eastern	27260	9	13,379	192	1,771	851	16,202
	27292	244	126,867	24	1,597	18,893	147,625
	27296	10	5,840	0	3,813	4	9,667
	Total	263	146,086	216	7,181	19,748	173,494
Western	27374	155	32,065	69,727	85,275	29,892	217,114
	27380	0	7,274	6,214	3,874	3,520	20,882
	27390	7	8,153	15,576	11,722	2,891	38,349
	27394	0	37	70	0	0	107
	Total	162	47,529	91,587	100,871	36,303	276,452
Perryville	27540	95	16,473	20,531	56,974	16,643	110,716
	27550	10	420	2	0	0	432
	27560	3	962	292	1,501	333	3,091
	Total	108	17,855	20,825	58,475	16,976	114,239
All District Total		3,105	1,958,353	193,226	183,806	99,791	2,438,281

^aDoes not include salmon that were caught for personal use or subsistence..

^bIncludes catch from the department's test fishery within Chignik Lagoon.

^cDoes not include salmon caught at Cape Igvak or Southeastern District mainland destined to Chignik.

Table 4. Commercial salmon fishing effort and catch by day in the Chignik Management Area, 1996.

Catch ^{a,b} MM/DD	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
5-Jun ^c	1	1	0	0	659	5,255	0	0	0	0	0	0	659	5,255
8-Jun ^c	1	1	0	0	1,117	9,143	0	0	0	0	0	0	1,117	9,143
10-Jun	68	69	19	421	26,890	217,579	0	0	191	560	1,480	12,470	28,580	231,030
11-Jun	74	85	15	305	28,611	229,748	0	0	494	1,337	857	7,662	29,977	239,052
12-Jun	82	93	44	894	36,756	295,942	1	7	322	835	801	7,160	37,924	304,838
13-Jun	85	96	92	1,446	46,398	369,070	1	14	439	1,278	3,605	28,414	50,535	400,222
14-Jun	85	96	54	1,124	61,202	480,344	0	0	364	1,064	3,295	27,102	64,915	509,634
15-Jun	87	91	32	678	49,787	374,860	0	0	4,462	9,755	2,936	25,892	57,217	411,185
16-Jun ^c	1	1	0	0	1,785	16,050	0	0	0	0	0	0	1,785	16,050
17-Jun	66	66	5	133	28,819	230,424	1	10	0	0	277	2,405	29,102	232,972
18-Jun	93	107	42	982	144,212	1,103,904	0	0	398	1,163	3,462	27,811	148,114	1,133,860
19-Jun	84	95	32	674	100,314	782,950	0	0	49	144	1,337	11,715	101,732	795,483
20-Jun	96	100	44	926	102,026	781,223	0	0	442	1,028	3,924	33,174	106,436	816,351
21-Jun ^c	1	1	0	0	756	6,063	0	0	0	0	0	0	756	6,063
22-Jun	71	71	19	362	44,585	351,415	0	0	0	0	246	2,436	44,850	354,213
23-Jun	95	105	103	2,370	74,978	591,740	4	30	386	965	2,192	19,462	77,663	614,567
24-Jun	92	97	21	430	54,234	392,195	0	0	0	0	2,140	16,674	56,395	409,299
27-Jun	89	90	82	1,942	91,067	704,936	24	174	0	0	2,483	21,264	93,656	728,316
28-Jun	94	106	114	2,285	95,522	718,069	44	329	1,825	4,561	2,535	23,072	100,040	748,316
29-Jun	94	107	230	4,100	78,296	591,652	66	467	295	832	4,514	42,870	83,401	639,921
30-Jun	81	84	58	1,224	41,811	321,108	50	358	97	220	545	4,914	42,561	327,824
1-Jul	80	85	36	828	50,989	389,267	122	887	437	1,155	492	4,028	52,076	396,165
2-Jul	92	98	133	3,213	56,830	424,115	266	1,613	756	1,825	710	5,975	58,695	436,741
3-Jul	86	87	124	3,022	61,572	467,165	434	2,999	475	1,350	703	6,072	63,308	480,608
4-Jul	86	92	205	4,961	58,294	443,683	749	5,154	1,000	2,938	1,073	8,683	61,321	465,419
5-Jul	74	79	61	1,479	41,010	306,812	444	3,183	175	510	1,405	12,136	43,095	324,120
6-Jul	87	88	90	2,202	51,409	383,273	1,048	7,247	705	2,097	1,021	8,713	54,273	403,532
7-Jul	86	91	117	3,047	35,429	268,150	751	5,615	260	775	847	7,484	37,404	285,071

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Table 4. (page 2 of 3)

Catch MM/DD	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
8-Jul	76	79	127	2,860	27,164	206,933	658	4,752	200	650	545	4,732	28,694	219,927
9-Jul	73	75	148	3,758	30,023	229,925	1,338	10,595	0	0	518	4,733	32,027	249,011
12-Jul	72	72	40	991	28,022	218,666	358	2,726	173	535	169	1,482	28,762	224,400
13-Jul	84	90	147	2,583	32,833	254,935	1,445	10,187	395	1,046	388	3,280	35,208	272,031
14-Jul	85	90	209	2,978	28,667	221,233	3,424	24,223	610	1,605	376	3,187	33,286	253,226
15-Jul	76	76	104	1,225	16,062	125,214	882	5,951	172	523	135	1,156	17,355	134,069
18-Jul	47	47	16	399	12,746	101,691	0	0	0	0	0	0	12,762	102,090
19-Jul	93	99	45	1,060	26,926	207,288	1,570	10,658	6,084	21,164	2,668	23,573	37,293	263,743
20-Jul	88	91	84	1,409	24,001	182,878	4,149	30,740	5,842	18,063	1,577	13,050	35,653	246,140
21-Jul	86	91	109	1,607	22,764	168,163	7,234	51,828	10,492	36,812	2,642	21,075	43,241	279,485
30-Jul	55	55	2	31	6,798	49,825	766	6,845	1,426	4,886	85	752	9,077	62,339
31-Jul	86	89	36	585	15,087	107,798	13,396	101,077	25,974	82,734	5,382	40,692	59,875	332,886
1-Aug	70	70	33	524	10,156	73,239	11,126	81,443	17,695	44,504	2,556	18,449	41,566	218,159
2-Aug	74	75	36	534	9,284	67,079	9,442	65,501	14,270	45,699	4,228	30,054	37,260	208,867
3-Aug	62	62	41	586	8,631	61,759	12,037	73,980	12,060	45,221	5,858	35,235	38,627	216,781
4-Aug	58	58	40	651	8,975	65,885	8,079	55,105	10,596	31,550	4,356	31,092	32,046	184,283
5-Aug	43	44	26	294	5,860	43,031	7,809	54,103	7,716	26,393	3,208	21,614	24,619	145,435
9-Aug	55	55	3	84	6,922	52,609	351	2,757	70	247	4	37	7,350	55,734
10-Aug	55	56	10	116	9,754	69,496	8,751	58,738	13,528	34,131	3,369	24,235	35,412	186,716
11-Aug	53	55	11	241	11,096	78,359	4,327	29,425	10,914	25,618	2,990	22,074	29,338	155,717
12-Aug	53	53	13	187	14,408	97,719	4,582	30,353	13,355	26,956	2,800	19,932	35,158	175,147
13-Aug	45	45	2	42	4,957	37,324	595	4,611	38	130	0	0	5,592	42,107
15-Aug	33	33	0	0	4,017	30,255	213	1,724	16	48	4	40	4,250	32,067
16-Aug	59	61	15	196	11,023	80,173	4,889	34,581	2,923	7,462	1,833	12,656	20,683	135,068
17-Aug	63	64	9	193	14,333	102,029	5,045	37,079	4,127	11,918	2,558	18,342	26,072	169,561
18-Aug	61	62	5	39	11,092	76,783	6,013	43,005	3,839	11,136	2,864	20,059	23,813	151,022
19-Aug	53	53	5	118	7,694	54,492	4,103	31,331	2,494	7,344	1,574	11,128	15,870	104,413
20-Aug	46	55	8	110	8,698	60,865	4,820	37,546	2,202	6,369	1,795	12,568	17,523	117,458
21-Aug	41	42	0	0	6,409	43,252	5,029	37,166	1,789	5,054	1,410	9,873	14,637	95,345

-Continued-

Table 4. (page 3 of 3)

Catch MM/DD	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
24-Aug	47	48	2	34	6,166	44,936	3,106	27,905	2	6	0	0	9,276	72,881
25-Aug	58	58	3	46	11,847	84,876	7,655	66,634	533	1,983	576	4,121	20,614	157,660
26-Aug	43	44	2	47	6,693	47,525	6,027	52,251	394	1,199	354	2,466	13,470	103,488
27-Aug	39	39	0	0	6,158	43,590	4,330	39,001	75	150	25	180	10,588	82,921
28-Aug	34	34	0	0	4,685	33,204	2,586	23,647	230	690	64	385	7,565	57,926
30-Aug	18	18	0	0	1,892	13,358	798	7,603	0	0	0	0	2,690	20,961
31-Aug	39	41	0	0	6,589	45,426	3,921	36,513	0	0	0	0	10,510	81,939
1-Sep	38	38	1	22	6,133	41,740	5,900	55,165	0	0	0	0	12,034	96,927
2-Sep	33	33	0	0	5,054	34,745	4,443	41,393	0	0	0	0	9,497	76,138
3-Sep	34	38	1	5	4,278	29,049	4,280	39,928	0	0	0	0	8,559	68,982
7-Sep	24	24	0	0	2,046	13,665	3,773	35,770	0	0	0	0	5,819	49,435
8-Sep	24	24	0	0	2,248	14,916	3,039	28,931	0	0	0	0	5,287	43,847
9-Sep	16	17	0	0	2,023	12,917	2,505	23,685	0	0	0	0	4,528	36,602
10-Sep	15	15	0	0	1,316	8,860	3,133	29,374	0	0	0	0	4,449	38,234
14-Sep	5	5	0	0	377	2,355	403	3,705	0	0	0	0	780	6,060
15-Sep	6	6	0	0	415	2,655	334	3,065	0	0	0	0	749	5,720
16-Sep	4	4	0	0	673	3,895	557	5,260	0	0	0	0	1,230	9,155
Total	100	4,565	3,105	62,603	1,958,353	14,902,745	193,226	1,485,947	183,806	536,218	99,791	779,840	2,438,281	17,767,353
Average Weight				20.2		7.6		7.7		2.9		7.8		

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^aDoes not include salmon that were caught for personal use or subsistence.

^bDoes not include any catch from Southeastern District Mainland or Cape Igvak.

^cCatch from the department's test fishery within Chignik Lagoon.

Table 5. Commercial salmon fishing effort and catch by statistical area and day in the Chignik Management Area, 1996.

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
25	27110 05-Jun ^d	1	1	0	0	659	5,255	0	0	0	0	0	0	659	5,255
	08-Jun ^d	1	1	0	0	1,117	9,143	0	0	0	0	0	0	1,117	9,143
	10-Jun	56	57	3	51	21,609	177,778	0	0	0	0	0	0	21,612	177,829
	11-Jun	54	60	3	65	21,896	179,316	0	0	0	0	0	0	21,899	179,381
	12-Jun	57	67	1	30	27,518	225,529	0	0	0	0	0	0	27,519	225,559
	13-Jun	59	70	5	90	32,693	266,348	0	0	0	0	0	0	32,698	266,438
	14-Jun	57	66	6	141	37,601	306,168	0	0	0	0	1	10	37,608	306,319
	15-Jun	55	59	8	195	26,464	214,988	0	0	0	0	4	40	26,476	215,223
	16-Jun ^d	1	1	0	0	1,785	16,050	0	0	0	0	0	0	1,785	16,050
	17-Jun	59	59	4	96	23,908	193,552	1	10	0	0	0	0	23,913	193,658
	18-Jun	62	74	18	472	70,661	570,498	0	0	0	0	1	8	70,680	570,978
	19-Jun	54	63	13	306	42,721	341,506	0	0	0	0	0	0	42,734	341,812
	20-Jun	56	59	22	529	45,925	364,810	0	0	41	108	2	10	45,990	365,457
	21-Jun ^d	1	1	0	0	756	6,063	0	0	0	0	0	0	756	6,063
	22-Jun	48	48	11	187	35,501	283,091	0	0	0	0	0	0	35,512	283,278
	23-Jun	60	70	81	1,972	44,457	354,814	0	0	0	0	0	0	44,538	356,786
	24-Jun	55	58	15	326	18,501	147,377	0	0	0	0	0	0	18,516	147,703
	27-Jun	58	58	53	1,340	45,280	361,943	0	0	0	0	0	0	45,333	363,283
	28-Jun	55	60	54	1,251	27,575	219,204	0	0	0	0	0	0	27,629	220,455
	29-Jun	46	49	82	2,111	18,008	141,436	2	15	0	0	0	0	18,092	143,562
	30-Jun	48	50	40	868	23,976	189,024	12	124	0	0	0	0	24,028	190,016
	01-Jul	45	49	28	665	23,349	184,600	2	22	0	0	2	14	23,381	185,301
	02-Jul	50	56	93	2,395	26,349	206,048	3	22	0	0	0	0	26,445	208,465
	03-Jul	47	47	92	2,314	24,879	194,884	4	29	0	0	0	0	24,975	197,227
	04-Jul	45	47	139	3,552	20,422	160,102	4	33	0	0	2	10	20,567	163,697
05-Jul	38	42	35	887	13,632	106,766	0	0	0	0	0	0	13,667	107,653	
06-Jul	45	46	70	1,795	17,323	134,776	0	0	0	0	0	0	17,393	136,571	
07-Jul	46	50	98	2,690	16,905	130,295	0	0	0	0	0	0	17,003	132,985	
08-Jul	39	40	100	2,296	13,176	103,184	8	59	0	0	0	0	13,284	105,539	
09-Jul	43	45	130	3,419	15,137	119,073	11	67	0	0	0	0	15,278	122,559	
12-Jul	49	49	31	799	19,885	156,966	1	8	0	0	0	0	19,917	157,773	

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Table 5. (page 2 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27110	13-Jul	48	53	66	1,541	16,992	134,577	1	8	0	0	0	0	17,059	136,126
	14-Jul	48	51	36	960	11,229	90,357	11	78	0	0	0	0	11,276	91,395
	15-Jul	46	46	45	666	9,848	78,225	99	665	0	0	0	0	9,992	79,556
	18-Jul	47	47	16	399	12,746	101,691	0	0	0	0	0	0	12,762	102,090
	19-Jul	56	61	25	689	18,119	143,054	5	39	0	0	0	0	18,149	143,782
	20-Jul	52	53	51	993	15,794	124,057	54	382	0	0	0	0	15,899	125,432
	21-Jul	50	51	27	668	11,975	93,856	15	125	0	0	0	0	12,017	94,649
	30-Jul	46	46	1	28	5,824	43,008	115	895	223	915	33	274	6,196	45,120
	31-Jul	49	49	6	130	8,175	60,486	126	981	379	1,484	66	572	8,752	63,653
	01-Aug	39	39	7	138	6,579	48,848	96	745	117	469	21	190	6,820	50,390
	02-Aug	47	47	7	166	6,270	46,242	254	2,031	18	56	11	109	6,560	48,604
	03-Aug	40	40	5	111	5,621	41,708	113	896	0	0	1	10	5,740	42,725
	04-Aug	36	36	9	239	5,787	43,349	65	484	18	72	5	32	5,884	44,176
	05-Aug	31	31	7	135	4,809	35,582	64	469	31	119	157	1,227	5,068	37,532
	09-Aug	48	48	2	47	6,016	45,799	242	1,846	70	247	4	37	6,334	47,976
	10-Aug	34	34	3	31	4,711	35,186	105	797	262	1,035	133	1,052	5,214	38,101
	11-Aug	33	35	3	81	5,270	40,083	110	844	274	1,064	169	1,327	5,826	43,399
	12-Aug	37	37	8	123	6,576	49,835	124	1,008	9	27	6	58	6,723	51,051
	13-Aug	35	35	1	20	4,240	32,025	64	530	38	130	0	0	4,343	32,705
	15-Aug	28	28	0	0	3,418	25,932	102	832	16	48	4	40	3,540	26,852
	16-Aug	38	38	6	93	6,196	47,298	440	3,715	9	31	3	22	6,654	51,159
	17-Aug	39	39	5	81	6,459	49,108	378	3,191	9	30	10	68	6,861	52,478
	18-Aug	38	39	1	3	5,534	41,010	443	3,664	0	0	0	0	5,978	44,677
	19-Aug	31	31	3	79	3,079	22,487	507	4,177	0	0	0	0	3,589	26,743
	20-Aug	28	32	1	22	4,026	29,580	885	7,616	0	0	0	0	4,912	37,218
	21-Aug	27	27	0	0	3,496	25,528	915	7,798	0	0	0	0	4,411	33,326
	24-Aug	39	40	1	10	4,739	34,809	2,120	19,207	2	6	0	0	6,862	54,032
	25-Aug	39	39	0	0	4,711	34,398	2,369	21,581	7	20	4	30	7,091	56,029
	26-Aug	33	34	1	26	3,617	26,048	3,250	29,290	0	0	0	0	6,868	55,364
	27-Aug	33	33	0	0	4,365	31,288	3,636	33,027	0	0	0	0	8,001	64,315
	28-Aug	29	29	0	0	2,555	18,543	2,021	18,625	0	0	0	0	4,576	37,168
	30-Aug	17	17	0	0	1,878	13,257	781	7,453	0	0	0	0	2,659	20,710
	31-Aug	32	34	0	0	5,242	36,298	3,015	28,328	0	0	0	0	8,257	64,626
	01-Sep	32	32	0	0	4,629	31,625	4,726	44,596	0	0	0	0	9,355	76,221

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Table 5. (page 3 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon			
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds		
27110	02-Sep	29	29	0	0	3,338	22,923	3,486	32,898	0	0	0	0	6,824	55,821		
	03-Sep	30	31	1	5	2,729	18,359	2,903	27,321	0	0	0	0	5,633	45,685		
	07-Sep	21	21	0	0	1,538	10,112	3,535	33,570	0	0	0	0	5,073	43,682		
	08-Sep	21	21	0	0	1,766	11,646	2,693	25,741	0	0	0	0	4,459	37,387		
	09-Sep	14	15	0	0	1,740	10,972	2,195	20,795	0	0	0	0	3,935	31,767		
	10-Sep	12	12	0	0	1,182	7,940	2,119	19,758	0	0	0	0	3,301	27,698		
	14-Sep	5	5	0	0	377	2,355	403	3,705	0	0	0	0	780	6,060		
	15-Sep	5	5	0	0	375	2,425	309	2,895	0	0	0	0	684	5,320		
	16-Sep			0	0	445	2,665	419	3,990	0	0	0	0	864	6,655		
TOTAL		84	2,975	1,579	38,326	1,003,683	7,915,161	45,361	416,985	1,523	5,861	639	5,140	1,052,785	8,381,473		
AVG.WT.					24.3		7.9		9.2		3.8		8.0				
27220	29-Jun			0	0	615	4,593	3	21	0	0	0	0	618	4,614		
	01-Jul			0	0	480	3,642	0	0	0	0	0	0	480	3,642		
	07-Jul			0	0	63	457	0	0	0	0	0	0	63	457		
	13-Jul			35	305	205	1,325	417	3,024	0	0	0	0	657	4,654		
	14-Jul			117	1,233	1,324	8,414	2,198	15,347	0	0	0	0	3,639	24,994		
	15-Jul			42	301	302	1,840	273	1,832	0	0	0	0	617	3,973		
	20-Jul			1	6	201	1,410	476	3,807	733	2,200	0	0	1,411	7,423		
	21-Jul			10	84	172	1,205	425	2,973	0	0	0	0	607	4,262		
	30-Jul			0	0	65	424	587	5,471	1,174	3,876	39	365	1,865	10,136		
	31-Jul			0	0	42	300	280	2,390	0	0	0	0	322	2,690		
	02-Aug			2	10	77	497	641	4,905	0	0	0	0	720	5,412		
	10-Aug			0	0	170	1,280	400	3,650	0	0	0	0	570	4,930		
	13-Aug			0	0	184	1,336	179	1,432	0	0	0	0	363	2,768		
TOTAL		14	21	207	1,939	3,900	26,723	5,879	44,852	1,907	6,076	39	365	11,932	79,955		
AVG.WT.					9.4		6.9		7.6		3.2		9.4				
27230	10-Jun			0	0	80	629	0	0	0	0	2	14	82	643		
	11-Jun			12	16	3	58	2,413	19,592	0	0	27	71	69	678	2,512	20,399
	12-Jun			12	13	3	53	4,376	35,064	0	0	14	34	101	969	4,494	36,120
	13-Jun			11	11	1	14	3,737	30,388	0	0	14	42	82	818	3,834	31,262
	14-Jun			11	11	0	0	3,690	28,551	0	0	37	94	171	1,788	3,898	30,433
	15-Jun			10	10	1	12	3,281	25,913	0	0	0	0	158	1,521	3,440	27,446

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Table 5. (page 4 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
28	27230 17-Jun	7	7	1	37	4,911	36,872	0	0	0	0	277	2,405	5,189	39,314
	18-Jun	11	13	4	67	15,531	123,095	0	0	5	12	318	2,868	15,858	126,042
	19-Jun	11	12	2	31	19,729	155,131	0	0	49	144	197	1,985	19,977	157,291
	20-Jun	14	15	2	50	17,227	125,262	0	0	47	121	449	4,255	17,725	129,688
	22-Jun	13	13	6	120	3,678	27,860	0	0	0	0	110	1,210	3,794	29,190
	23-Jun	12	12	1	20	5,587	42,174	0	0	0	0	211	2,165	5,799	44,359
	24-Jun	16	17	1	31	9,472	73,702	0	0	0	0	94	823	9,567	74,556
	27-Jun	9	10	9	234	17,206	129,267	0	0	0	0	344	3,473	17,559	132,974
	28-Jun	12	12	7	140	13,120	100,894	6	38	0	0	448	4,242	13,581	105,314
	29-Jun	14	16	2	54	8,441	62,997	4	36	0	0	262	2,240	8,709	65,327
	30-Jun	10	10	4	91	3,060	22,676	1	10	50	100	294	2,697	3,409	25,574
	01-Jul	10	10	1	34	6,663	44,640	15	118	0	0	258	2,174	6,937	46,966
	02-Jul	14	14	10	221	7,728	52,502	27	182	0	0	342	2,790	8,107	55,695
	03-Jul	12	13	7	199	10,115	77,698	87	663	0	0	213	1,917	10,422	80,477
	04-Jul	15	19	29	638	13,599	101,357	138	875	0	0	703	5,628	14,469	108,498
	05-Jul	19	20	15	284	12,392	88,330	86	777	0	0	1,158	10,276	13,651	99,667
	06-Jul	17	17	11	219	12,341	87,418	76	653	0	0	491	4,306	12,919	92,596
	07-Jul	17	18	4	109	6,108	46,860	43	399	0	0	131	1,164	6,286	48,532
	08-Jul	17	19	9	130	3,640	27,824	62	569	0	0	245	2,267	3,956	30,790
	09-Jul	14	14	8	173	5,768	43,549	471	3,758	0	0	278	2,533	6,525	50,013
	12-Jul	11	11	4	71	4,743	36,378	32	227	53	170	82	766	4,914	37,612
	13-Jul	14	14	26	315	5,917	45,076	91	666	20	54	72	663	6,126	46,774
	14-Jul	14	14	23	292	6,457	50,465	107	815	0	0	65	600	6,652	52,172
	15-Jul	15	15	9	180	2,743	21,429	180	1,301	0	0	20	186	2,952	23,096
	19-Jul	17	17	5	97	2,962	22,450	734	5,124	0	0	0	0	3,701	27,671
	20-Jul	14	14	1	24	2,081	15,591	445	3,421	0	0	0	0	2,527	19,036
	21-Jul	13	13	7	163	1,524	11,142	877	6,847	0	0	0	0	2,408	18,152
	30-Jul	4	4	1	3	478	3,232	23	193	29	95	13	113	544	3,636
31-Jul	7	8	0	0	1,901	13,916	950	7,983	2,202	7,519	99	918	5,152	30,336	
01-Aug	8	8	0	0	1,105	8,203	590	5,101	0	0	0	0	1,695	13,304	
02-Aug	8	8	1	8	647	4,958	141	1,216	0	0	0	0	789	6,182	
03-Aug	6	6	0	0	610	4,551	189	1,696	0	0	0	0	799	6,247	
04-Aug	6	6	0	0	1,015	7,705	208	1,651	0	0	0	0	1,223	9,356	
05-Aug			1	10	295	2,248	45	345	0	0	0	0	341	2,603	

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Table 5. (page 5 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
29	27230 09-Aug	5	5	0	0	604	4,595	96	819	0	0	0	0	700	5,414
	10-Aug	5	5	0	0	936	7,011	110	907	586	1,939	267	2,367	1,899	12,224
	11-Aug	5	5	0	0	380	2,834	53	414	331	1,045	116	1,045	880	5,338
	12-Aug			0	0	180	1,321	97	757	0	0	0	0	277	2,078
	13-Aug			0	0	195	1,420	99	774	0	0	0	0	294	2,194
	15-Aug	4	4	0	0	436	3,159	81	672	0	0	0	0	517	3,831
	16-Aug	10	11	3	54	2,123	15,999	556	4,374	0	0	0	0	2,682	20,427
	17-Aug	12	13	1	56	2,128	15,853	763	6,142	0	0	0	0	2,892	22,051
	18-Aug	10	10	3	21	1,420	10,699	450	3,560	0	0	0	0	1,873	14,280
	19-Aug	8	8	0	0	1,373	10,311	500	4,065	0	0	0	0	1,873	14,376
	20-Aug	7	10	1	32	1,585	11,750	541	4,756	0	0	0	0	2,127	16,538
	21-Aug	5	5	0	0	451	3,312	222	2,015	0	0	0	0	673	5,327
	24-Aug	5	5	0	0	774	5,638	397	3,638	0	0	0	0	1,171	9,276
	25-Aug	7	7	1	21	1,257	8,990	621	5,759	0	0	0	0	1,879	14,770
	26-Aug			0	0	456	3,308	309	2,725	0	0	0	0	765	6,033
	27-Aug			0	0	60	404	53	482	0	0	0	0	113	886
	30-Aug			0	0	14	101	17	150	0	0	0	0	31	251
	31-Aug			0	0	171	1,187	100	920	0	0	0	0	271	2,107
	01-Sep			0	0	61	402	46	440	0	0	0	0	107	842
	02-Sep			0	0	319	2,171	155	1,239	0	0	0	0	474	3,410
03-Sep			0	0	184	1,435	79	705	0	0	0	0	263	2,140	
07-Sep			0	0	351	2,480	97	920	0	0	0	0	448	3,400	
08-Sep			0	0	330	2,360	81	750	0	0	0	0	411	3,110	
09-Sep			0	0	134	945	68	570	0	0	0	0	202	1,515	
10-Sep			0	0	84	610	26	250	0	0	0	0	110	860	
15-Sep			0	0	40	230	25	170	0	0	0	0	65	400	
27230 16-Sep			0	0	228	1,230	138	1,270	0	0	0	0	366	2,500	
TOTAL		39	591	228	4,366	262,645	1,977,344	11,408	93,907	3,464	11,440	8,140	73,864	285,885	2,160,921
AVG.WT.					19.1		7.5		8.2		3.3		9.1		
27240	12-Jun			35	723	1,092	7,072	0	0	60	180	443	3,988	1,630	11,963
	13-Jun			71	1,040	2,793	20,506	0	0	252	751	2,009	16,758	5,125	39,055
	14-Jun			9	186	737	4,795	0	0	163	489	682	6,135	1,591	11,605
	15-Jun			6	133	2,514	17,434	0	0	258	720	1,348	11,970	4,126	30,257

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Table 5. (page 6 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27240	30-Jun			5	85	825	5,773	0	0	0	0	80	720	910	6,578
	02-Jul			4	84	3,057	17,389	32	162	291	700	153	1,302	3,537	19,637
	TOTAL	6	13	130	2,251	11,018	72,969	32	162	1,024	2,840	4,715	40,873	16,919	119,095
	AVG.WT.				17.3		6.6		5.1		2.8		8.7		
30 27250	10-Jun			0	0	212	1,705	0	0	25	66	6	54	243	1,825
	11-Jun			0	0	182	1,408	0	0	17	51	7	61	206	1,520
	12-Jun	7	7	5	88	1,159	8,538	1	7	0	0	124	1,015	1,289	9,648
	13-Jun	6	6	1	20	2,010	15,507	1	14	17	43	121	1,030	2,150	16,614
	14-Jun	7	7	17	342	7,506	54,328	0	0	30	90	643	5,201	8,196	59,961
	15-Jun	8	8	5	83	5,011	36,453	0	0	230	627	378	3,800	5,624	40,963
	18-Jun	6	6	3	86	12,143	84,710	0	0	231	627	405	4,166	12,782	89,589
	19-Jun	10	11	5	81	22,305	172,119	0	0	0	0	861	7,219	23,171	179,419
	20-Jun	11	11	2	32	16,632	118,925	0	0	0	0	1,897	16,235	18,531	135,192
	22-Jun	4	4	2	55	1,869	13,085	0	0	0	0	136	1,226	2,007	14,366
	23-Jun	11	11	11	198	15,886	128,363	4	30	0	0	784	7,905	16,685	136,496
	24-Jun	9	9	0	0	7,603	61,535	0	0	0	0	626	5,905	8,229	67,440
	27-Jun	6	6	0	0	7,710	63,407	0	0	0	0	775	7,765	8,485	71,172
	28-Jun	11	11	25	348	20,120	146,779	14	93	65	162	493	4,315	20,717	151,697
	29-Jun	11	11	1	20	7,300	55,814	11	75	295	832	230	1,840	7,837	58,581
	30-Jun	7	8	2	15	3,949	31,004	1	7	47	120	58	480	4,057	31,626
	01-Jul	7	8	2	30	4,938	37,176	18	131	437	1,155	232	1,840	5,627	40,332
	02-Jul	4	4	1	16	4,060	30,416	27	156	465	1,125	125	1,002	4,678	32,715
	03-Jul	9	9	4	67	8,127	61,315	127	941	475	1,350	185	1,502	8,918	65,175
	04-Jul	9	9	4	94	11,582	87,094	283	1,956	570	1,640	218	1,810	12,657	92,594
05-Jul	5	5	1	30	6,345	47,728	151	981	175	510	195	1,367	6,867	50,616	
06-Jul	14	14	4	88	14,401	106,373	675	4,618	705	2,097	530	4,407	16,315	117,583	
07-Jul	13	13	10	153	6,643	48,565	481	3,316	260	775	716	6,320	8,110	59,129	
08-Jul	11	11	10	219	3,859	28,334	300	2,212	200	650	300	2,465	4,669	33,880	
09-Jul	8	8	3	86	4,572	33,145	587	4,892	0	0	240	2,200	5,402	40,323	
12-Jul	8	8	5	121	2,989	22,424	303	2,328	120	365	87	716	3,504	25,954	
13-Jul	10	10	6	126	5,875	44,563	629	4,381	375	992	316	2,617	7,201	52,679	
14-Jul	13	14	9	163	6,280	47,710	887	6,402	610	1,605	311	2,587	8,097	58,467	

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Table 5. (page 7 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
31	27250	15-Jul	10	10	6	62	2,467	18,380	276	1,758	172	523	115	970	3,036	21,693
		19-Jul	8	8	2	25	1,552	11,351	184	1,297	0	0	0	0	1,738	12,673
		20-Jul	6	6	3	30	1,624	12,129	532	4,143	0	0	0	0	2,159	16,302
		21-Jul	6	6	2	40	1,577	11,438	510	3,862	0	0	0	0	2,089	15,340
		31-Jul			1	28	772	5,556	420	3,034	950	2,622	95	726	2,238	11,966
		01-Aug	4	4	0	0	442	3,371	363	2,809	0	0	0	0	805	6,180
		02-Aug	4	4	1	17	347	2,386	153	1,235	0	0	0	0	501	3,638
		03-Aug			3	30	462	3,288	266	2,008	0	0	0	0	731	5,326
		04-Aug			0	0	478	3,284	123	886	0	0	0	0	601	4,170
		10-Aug			0	0	695	5,046	144	1,352	976	3,224	135	1,286	1,950	10,908
		11-Aug			0	0	500	3,597	145	1,044	875	3,090	110	808	1,630	8,539
		12-Aug			0	0	87	639	27	221	0	0	0	0	114	860
		13-Aug			0	0	192	1,526	98	820	0	0	0	0	290	2,346
		18-Aug			0	0	165	1,239	361	2,884	0	0	0	0	526	4,123
		19-Aug			0	0	165	1,238	298	2,384	0	0	0	0	463	3,622
		20-Aug			0	0	275	2,014	461	4,531	0	0	0	0	736	6,545
		21-Aug			0	0	168	1,150	172	1,656	0	0	0	0	340	2,806
		24-Aug			0	0	300	1,924	180	1,765	0	0	0	0	480	3,689
		25-Aug			0	0	203	1,487	105	976	0	0	0	0	308	2,463
	27250	27-Aug			0	0	73	541	66	574	0	0	0	0	139	1,115
	TOTAL	29	300	156	2,793	223,812	1,680,107	9,384	71,779	8,322	24,341	11,454	100,840	253,128	1,879,860	
	AVG.WT.				17.9		7.5		7.6		2.9		8.8			
27260	15-Jun			0	0	1,682	12,986	0	0	161	482	49	452	1,892	13,920	
	20-Jun			0	0	2,581	19,673	0	0	0	0	8	94	2,589	19,767	
	22-Jun			0	0	366	2,898	0	0	0	0	0	0	366	2,898	
	28-Jun			4	119	4,741	34,082	0	0	1,610	4,025	695	6,381	7,050	44,607	
27260	29-Jun	5	6	5	96	3,591	25,473	9	54	0	0	99	901	3,704	26,524	
	TOTAL	10	13	9	215	12,961	95,112	9	54	1,771	4,507	851	7,828	15,601	107,716	
	AVG.WT.				23.9		7.3		7.8		2.5		9.2			
27262	10-Jun			0	0	406	3,185	0	0	0	0	14	162	420	3,347	
	12-Jun	4	4	0	0	2,370	18,174	0	0	248	621	105	958	2,723	19,753	

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Table 5. (page 8 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
32	27262	13-Jun	5	5	7	107	2,481	18,876	0	0	156	442	33	293	2,677	19,718
	14-Jun	6	6	9	186	4,853	37,682	0	0	0	0	112	798	4,974	38,666	
	15-Jun	4	4	2	39	2,544	20,336	0	0	0	0	208	1,754	2,754	22,129	
	18-Jun	5	5	6	111	15,001	117,820	0	0	55	148	348	3,384	15,410	121,463	
	19-Jun	5	5	7	131	10,623	80,528	0	0	0	0	0	0	10,630	80,659	
	20-Jun	7	7	0	0	9,402	71,397	0	0	0	0	27	230	9,429	71,627	
	22-Jun	5	5	0	0	3,171	24,481	0	0	0	0	0	0	3,171	24,481	
	23-Jun	6	6	2	38	3,386	26,109	0	0	0	0	0	0	3,388	26,147	
	24-Jun	7	7	2	19	4,872	37,900	0	0	0	0	0	0	4,874	37,919	
	27-Jun	11	11	9	190	13,755	105,975	20	147	0	0	30	296	13,814	106,608	
	28-Jun	13	13	13	248	21,132	157,237	24	198	150	374	190	1,839	21,509	159,896	
	29-Jun	11	13	12	275	17,355	132,702	17	146	0	0	0	0	17,384	133,123	
	30-Jun	13	13	3	78	8,483	61,088	36	217	0	0	113	1,017	8,635	62,400	
	01-Jul	17	17	5	99	15,559	119,209	87	616	0	0	0	0	15,651	119,924	
	02-Jul	21	21	25	497	15,636	117,760	177	1,091	0	0	90	881	15,928	120,229	
	03-Jul	18	18	21	442	18,451	133,268	216	1,366	0	0	305	2,653	18,993	137,729	
	04-Jul	17	17	33	677	12,691	95,130	324	2,290	430	1,298	150	1,235	13,628	100,630	
	05-Jul	12	12	10	278	8,641	63,988	207	1,425	0	0	52	493	8,910	66,184	
	06-Jul	11	11	5	100	7,344	54,706	297	1,976	0	0	0	0	7,646	56,782	
	07-Jul	9	9	5	95	5,710	41,973	227	1,900	0	0	0	0	5,942	43,968	
	08-Jul	9	9	8	215	6,489	47,591	288	1,912	0	0	0	0	6,785	49,718	
	09-Jul	8	8	7	80	4,546	34,158	269	1,878	0	0	0	0	4,822	36,116	
	12-Jul	4	4	0	0	405	2,898	22	163	0	0	0	0	427	3,061	
	13-Jul	11	12	14	296	3,844	29,394	307	2,108	0	0	0	0	4,165	31,798	
	14-Jul	7	8	24	330	3,377	24,287	221	1,581	0	0	0	0	3,622	26,198	
	15-Jul			2	16	702	5,340	54	395	0	0	0	0	758	5,751	
	19-Jul	5	5	9	155	2,608	19,376	239	1,613	0	0	0	0	2,856	21,144	
	20-Jul	8	8	9	182	2,306	16,566	923	6,714	0	0	0	0	3,238	23,462	
	21-Jul	6	6	6	98	2,168	16,130	367	2,650	0	0	0	0	2,541	18,878	
	30-Jul			0	0	431	3,161	41	286	0	0	0	0	472	3,447	
	31-Jul	4	4	0	0	1,369	9,792	301	2,198	0	0	0	0	1,670	11,990	
	01-Aug			1	29	606	4,352	265	2,119	0	0	0	0	872	6,500	
02-Aug			0	0	353	2,505	16	112	0	0	0	0	369	2,617		

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Table 5. (page 9 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon		
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
33	27262	03-Aug			1	26	505	3,590	222	1,875	0	0	0	0	728	5,491
		04-Aug			0	0	706	5,195	129	1,000	0	0	0	0	835	6,195
		05-Aug			0	0	226	1,579	121	866	0	0	0	0	347	2,445
		09-Aug			1	37	302	2,215	13	92	0	0	0	0	316	2,344
		10-Aug			0	0	658	4,831	214	1,590	0	0	0	0	872	6,421
		11-Aug			2	27	1,265	8,976	82	597	0	0	0	0	1,349	9,600
		12-Aug			1	12	454	3,200	121	860	0	0	0	0	576	4,072
		13-Aug			1	22	146	1,017	155	1,055	0	0	0	0	302	2,094
		15-Aug			0	0	163	1,164	30	220	0	0	0	0	193	1,384
		16-Aug			2	22	684	4,847	359	2,592	0	0	0	0	1,045	7,461
		17-Aug			3	56	1,279	9,279	451	3,463	0	0	0	0	1,733	12,798
		18-Aug			0	0	430	3,061	74	579	0	0	0	0	504	3,640
		19-Aug			0	0	403	2,852	197	1,524	0	0	0	0	600	4,376
		20-Aug			1	23	785	5,590	254	2,000	0	0	0	0	1,040	7,613
		21-Aug			0	0	74	495	76	586	0	0	0	0	150	1,081
		24-Aug			1	24	353	2,565	409	3,295	0	0	0	0	763	5,884
		25-Aug			1	10	311	2,255	218	1,685	0	0	0	0	530	3,950
		26-Aug			1	21	174	1,195	222	1,795	0	0	0	0	397	3,011
		27-Aug			0	0	137	910	196	1,526	0	0	0	0	333	2,436
	28-Aug			0	0	53	400	18	175	0	0	0	0	71	575	
27262	01-Sep			1	22	65	465	211	1,826	0	0	0	0	277	2,313	
	TOTAL	31	329	272	5,313	242,243	1,820,755	9,279	64,302	1,039	2,883	1,777	15,993	254,048	1,909,246	
	AVG.WT.				19.5		7.5		7.4		2.8		9.0			
27292	10-Jun	7	7	16	370	4,583	34,282	0	0	166	494	1,458	12,240	6,223	47,386	
	11-Jun	6	6	9	182	4,120	29,432	0	0	450	1,215	781	6,923	5,360	37,752	
	12-Jun			0	0	241	1,565	0	0	0	0	28	230	269	1,795	
	13-Jun			7	175	2,684	17,445	0	0	0	0	1,360	9,515	4,051	27,135	
	14-Jun	4	5	13	269	6,815	48,820	0	0	134	391	1,686	13,170	8,648	62,650	
	15-Jun			0	0	2,451	17,060	0	0	0	0	787	6,315	3,238	23,375	
	18-Jun	9	9	11	246	30,876	207,781	0	0	107	376	2,390	17,385	33,384	225,788	
	19-Jun	4	4	5	125	4,936	33,666	0	0	0	0	279	2,511	5,220	36,302	
	20-Jun	6	6	18	315	10,259	81,156	0	0	354	799	1,541	12,350	12,172	94,620	

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Table 5. (page 10 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27292	23-Jun	6	6	8	142	5,662	40,280	0	0	386	965	1,197	9,392	7,253	50,779
	24-Jun	6	6	3	54	13,786	71,681	0	0	0	0	1,420	9,946	15,209	81,681
	27-Jun	5	5	11	178	7,116	44,344	4	27	0	0	1,334	9,730	8,465	54,279
	28-Jun	6	8	11	179	8,834	59,873	0	0	0	0	709	6,295	9,554	66,347
	29-Jun	6	10	128	1,544	22,986	168,637	20	120	0	0	3,923	37,889	27,057	208,190
27292	30-Jun			4	87	1,518	11,543	0	0	0	0	0	0	1,522	11,630
TOTAL		16	77	244	3,866	126,867	867,565	24	147	1,597	4,240	18,893	153,891	147,625	1,029,709
AVG.WT.					15.8		6.8		6.1		2.7		8.1		
27296	15-Jun			10	216	5,840	29,690	0	0	3,813	7,926	4	40	9,667	37,872
	TOTAL			10	216	5,840	29,690	0	0	3,813	7,926	4	40	9,667	37,872
	AVG.WT.				21.6		5.1		0.0		2.1		10.0		
27374	31-Jul	15	16	23	319	1,101	7,103	9,865	73,884	15,001	48,860	2,542	19,412	28,532	149,578
	01-Aug	11	11	23	337	586	3,422	8,399	62,254	12,036	28,509	1,324	10,569	22,368	105,091
	02-Aug	8	8	21	268	690	4,555	7,454	50,684	10,739	34,363	3,057	21,711	21,961	111,581
	03-Aug	8	8	32	419	952	5,708	9,767	58,603	9,479	37,916	5,455	32,728	25,685	135,374
	04-Aug	8	8	27	371	593	3,919	7,099	48,279	8,154	26,090	3,903	27,719	19,776	106,378
	05-Aug	8	9	10	87	389	2,615	7,472	51,576	6,842	22,607	2,938	19,596	17,651	96,481
	10-Aug			3	31	734	4,550	701	4,140	1,362	2,892	1,032	7,063	3,832	18,676
	11-Aug			2	47	2,451	15,404	1,086	7,493	4,186	9,475	1,913	13,946	9,638	46,365
	12-Aug	7	7	3	40	6,528	39,228	3,454	22,496	9,739	19,715	2,466	17,550	22,190	99,029
	16-Aug			4	27	342	2,021	2,361	16,000	744	2,066	542	3,740	3,993	23,854
	17-Aug			0	0	1,121	6,846	1,656	11,431	1,369	3,902	781	5,470	4,927	27,649
	18-Aug			0	0	1,784	10,346	2,231	15,285	1,952	5,662	1,262	8,844	7,229	40,137
	19-Aug	4	4	1	14	1,592	10,421	1,340	9,707	1,622	4,845	1,026	7,387	5,581	32,374
	20-Aug	4	4	5	33	1,339	7,836	2,035	13,867	1,018	2,979	1,056	7,393	5,453	32,108
	21-Aug			0	0	1,155	6,691	1,601	11,007	702	1,948	501	3,516	3,959	23,162
	25-Aug			1	15	4,158	28,835	1,070	9,665	0	0	0	0	5,229	38,515
	26-Aug			0	0	660	4,812	140	1,076	100	250	30	184	930	6,322
	27-Aug			0	0	1,373	9,340	229	2,273	0	0	0	0	1,602	11,613
	28-Aug	4	4	0	0	2,077	14,261	547	4,847	230	690	64	385	2,918	20,183
	31-Aug	4	4	0	0	695	4,621	290	2,620	0	0	0	0	985	7,241

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Table 5. (page 11 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
27374	01-Sep			0	0	348	2,222	128	1,121	0	0	0	0	476	3,343
	02-Sep			0	0	1,397	9,651	802	7,256	0	0	0	0	2,199	16,907
TOTAL		21	110	155	2,008	32,065	204,407	69,727	485,564	85,275	252,769	29,892	207,213	217,114	1,151,961
AVG.WT.					13.0		6.4		7.0		3.0		6.9		
35 27380	31-Jul	4	4	0	0	589	3,411	171	1,331	518	1,472	1,051	7,170	2,329	13,384
	16-Aug	4	4	0	0	1,318	7,746	638	4,290	873	2,437	801	5,521	3,630	19,994
	17-Aug			0	0	2,097	12,163	883	6,096	1,548	4,411	853	5,970	5,381	28,640
	18-Aug	4	4	0	0	1,033	6,220	994	7,036	670	1,944	592	4,143	3,289	19,343
	19-Aug			0	0	343	2,012	472	3,215	265	743	223	1,552	1,303	7,522
	20-Aug			0	0	58	400	192	1,715	0	0	0	0	250	2,115
	03-Sep			0	0	1,365	9,255	1,298	11,902	0	0	0	0	2,663	21,157
	07-Sep			0	0	157	1,073	141	1,280	0	0	0	0	298	2,353
	08-Sep			0	0	115	750	195	1,830	0	0	0	0	310	2,580
	09-Sep			0	0	149	1,000	242	2,320	0	0	0	0	391	3,320
	27380	10-Sep			0	0	50	310	988	9,366	0	0	0	0	1,038
TOTAL		12	29	0	0	7,274	44,340	6,214	50,381	3,874	11,007	3,520	24,356	20,882	130,084
AVG.WT.					0.0		6.1		8.1		2.8		6.9		
27390	10-Aug	5	6	3	37	1,270	8,082	5,561	35,987	5,804	14,697	1,301	8,909	13,939	67,712
	11-Aug	5	5	3	76	1,119	6,800	2,430	16,296	4,460	9,367	549	4,003	8,561	36,542
	17-Aug			0	0	903	6,774	485	3,829	333	1,100	217	1,950	1,938	13,653
	19-Aug			1	25	557	4,109	635	5,215	380	1,100	148	950	1,721	11,399
	25-Aug	4	4	0	0	857	6,600	2,904	24,341	376	1,423	327	2,188	4,464	34,552
	26-Aug	5	5	0	0	1,786	12,162	2,106	17,365	294	949	324	2,282	4,510	32,758
	27-Aug			0	0	150	1,107	150	1,119	75	150	25	180	400	2,556
	31-Aug			0	0	481	3,320	516	4,645	0	0	0	0	997	7,965
27390	01-Sep			0	0	1,030	7,026	789	7,182	0	0	0	0	1,819	14,208
TOTAL		11	28	7	138	8,153	55,980	15,576	115,979	11,722	28,786	2,891	20,462	38,349	221,345
AVG.WT.					19.7		6.9		7.4		2.5		7.1		
27394	08-Sep			0	0	37	160	70	610	0	0	0	0	107	770
TOTAL				0	0	37	160	70	610	0	0	0	0	107	770
AVG.WT.					0.0		4.3		8.7		0.0		0.0		

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Table 5. (page 12 of 12)

Stat Area	Catch ^{a,b,c} Date	Fishing Effort		Chinook		Sockeye		Coho		Pink		Chum		Total Salmon	
		Permits	Lndgs	Number	Pounds	Number	Pounds								
36	27540 19-Jul	7	8	4	94	1,685	11,057	408	2,585	6,084	21,164	2,668	23,573	10,849	58,473
	20-Jul	6	8	16	155	1,681	10,959	1,427	9,996	3,608	11,809	1,244	10,320	7,976	43,239
	21-Jul	8	12	47	473	4,280	26,711	5,038	35,359	10,492	36,812	2,642	21,075	22,499	120,430
	31-Jul	5	5	6	108	1,138	7,234	1,283	9,276	6,924	20,777	1,529	11,894	10,880	49,289
	01-Aug	5	5	2	20	838	5,043	1,413	8,415	5,542	15,526	1,211	7,690	9,006	36,694
	02-Aug			4	65	900	5,936	783	5,318	3,513	11,280	1,160	8,234	6,360	30,833
	03-Aug			0	0	481	2,914	1,480	8,902	2,581	7,305	402	2,497	4,944	21,618
	04-Aug			4	41	396	2,433	455	2,805	2,424	5,388	448	3,341	3,727	14,008
	05-Aug			8	62	141	1,007	107	847	843	3,667	113	791	1,212	6,374
	10-Aug			1	17	580	3,510	1,516	10,315	4,538	10,344	501	3,558	7,136	27,744
	11-Aug			1	10	111	665	421	2,737	788	1,577	133	945	1,454	5,934
	12-Aug			1	12	583	3,496	759	5,011	3,607	7,214	328	2,324	5,278	18,057
	16-Aug			0	0	360	2,262	535	3,610	1,297	2,928	487	3,373	2,679	12,173
	17-Aug			0	0	346	2,006	429	2,927	868	2,475	697	4,884	2,340	12,292
	18-Aug			1	15	726	4,208	1,460	9,997	1,217	3,530	1,010	7,072	4,414	24,822
	19-Aug			0	0	182	1,062	154	1,044	227	656	177	1,239	740	4,001
	20-Aug			0	0	630	3,695	452	3,061	1,184	3,390	739	5,175	3,005	15,321
	21-Aug	4	4	0	0	1,065	6,076	2,043	14,104	1,087	3,106	909	6,357	5,104	29,643
	27540 25-Aug			0	0	350	2,311	368	2,627	150	540	245	1,903	1,113	7,381
	TOTAL		12	72	95	1,072	16,473	102,585	20,531	138,936	56,974	169,488	16,643	126,245	110,716
AVG.WT.					11.3		6.2		6.8		3.0		7.6		
27550 21-Jul				10	81	420	3,068	2	12	0	0	0	0	432	3,161
TOTAL				10	81	420	3,068	2	12	0	0	0	0	432	3,161
AVG.WT.					8.1		7.3		6.0		0.0		0.0		
27560 20-Jul				3	19	314	2,166	292	2,277	1,501	4,054	333	2,730	2,443	11,246
27560 21-Jul				0	0	648	4,613	0	0	0	0	0	0	648	4,613
TOTAL				3	19	962	6,779	292	2,277	1,501	4,054	333	2,730	3,091	15,859
AVG.WT.					6.3		7.0		7.8		2.7		8.2		

^aFishing effort omitted where there are confidentiality concerns (Vessels < 4).

^bDoes not include any catch from Southeastern District Mainland or Cape Igvak.

^cDoes not include salmon that were caught for personal use or subsistence.

^dCatch from the department's test fishery within Chignik Lagoon.

Table 6. Comparison of average weights of salmon, based on fish ticket weights, caught inside and outside the Chignik Bay District, 1983-1996.

Year	Chinook		Average	Sockeye		Average	Coho		Average	Pink		Average	Chum		Average
	Number	Pounds	Weight	Number	Pounds	Weight	Number	Pounds	Weight	Number	Pounds	Weight	Number	Pounds	Weight
Chignik Bay District															
1983	3,560	80,193	22.5	1,597,059	10,536,850	6.6	29,519	250,786	8.5	27,284	97,222	3.6	16,747	130,154	7.8
1984	3,696	93,096	25.2	1,942,822	13,579,107	7.0	72,722	658,240	9.1	165,178	670,923	4.1	8,173	61,159	7.5
1985	1,810	43,396	24.0	812,605	4,820,590	5.9	156,579	1,431,798	9.1	14,429	55,900	3.9	4,906	31,307	6.4
1986	2,592	60,723	23.4	1,389,172	9,488,499	6.8	60,197	481,706	8.0	191,264	767,714	4.0	18,167	134,735	7.4
1987	1,931	42,848	22.2	1,559,757	11,508,187	7.4	77,333	654,640	8.5	13,887	51,855	3.7	5,163	38,429	7.4
1988	4,331	96,241	22.2	529,540	3,873,621	7.3	94,292	819,677	8.7	119,794	460,519	3.8	7,013	55,911	8.0
1989	3,532	76,491	21.7	1,156,782	7,950,548	6.9	68,231	559,127	8.2	27,691	94,218	3.4	1,587	11,546	7.3
1990	3,719	80,915	21.8	1,400,069	9,374,800	6.7	61,260	497,901	8.1	94,528	319,928	3.4	11,460	77,739	6.8
1991	1,996	47,206	23.7	1,487,421	10,196,187	6.9	56,574	481,741	8.5	76,163	231,960	3.0	17,545	115,553	6.6
1992	3,181	67,840	21.3	792,889	5,177,003	6.5	80,946	676,752	8.4	178,105	729,324	4.1	12,711	79,207	6.2
1993	5,240	85,848	16.4	762,730	4,675,799	6.1	48,808	349,816	7.2	55,909	174,334	3.1	8,116	44,235	5.5
1994	1,808	36,773	20.3	908,042	5,696,656	6.3	70,541	669,451	9.5	59,425	261,622	4.4	25,250	174,189	6.9
1995	3,008	76,580	25.5	1,083,707	7,335,791	6.8	54,646	460,937	8.4	106,939	416,116	3.9	14,588	114,029	7.8
1996	1,579	38,326	24.3	1,003,683	7,915,161	7.9	45,361	416,985	9.2	1,523	5,861	3.8	639	5,140	8.0
10-Year^c															
Average Weight			21.9			6.9			8.5			3.7			7.1
All other Districts															
1983	1,928	15,966	8.3	227,116	1,389,979	6.1	32,408	237,417	7.3	293,894	1,103,666	3.8	142,665	1,075,112	7.5
1984	622	6,471	10.4	717,797	4,957,180	6.9	37,406	291,725	7.8	279,626	980,326	3.5	55,130	424,808	7.7
1985	78	1,508	19.3	109,546	629,469	5.7	34,609	278,049	8.0	145,699	587,831	4.0	17,900	113,974	6.4
1986	445	6,049	13.6	256,662	1,766,361	6.9	56,436	385,489	6.8	455,861	1,606,597	3.5	158,473	1,169,683	7.4
1987	720	6,634	9.2	339,081	2,493,527	7.4	73,081	535,163	7.3	232,888	847,705	3.6	122,098	905,512	7.4
1988	2,965	32,639	11.0	266,301	1,840,831	6.9	276,128	2,069,750	7.5	2,877,365	10,262,986	3.6	260,762	2,140,466	8.2
1989	10	207	20.7	2,505	18,732	7.5	2	13	6.5	21	51	2.4	37	342	9.2
1990	6,182	53,350	8.6	693,581	4,434,969	6.4	68,871	435,844	6.3	455,480	1,355,716	3.0	258,544	1,679,280	6.5
1991	1,161	19,497	16.8	408,244	2,748,265	6.7	109,051	701,216	6.4	1,093,085	3,125,671	2.9	243,551	1,560,646	6.4
1992	7,651	70,250	9.2	484,560	3,195,899	6.6	229,997	1,685,939	7.3	1,375,968	5,069,835	3.7	209,423	1,513,119	7.2
1993	14,275	148,405	10.4	934,621	5,586,833	6.0	180,651	1,111,428	6.2	1,592,468	5,139,463	3.2	114,244	691,812	6.1
1994	2,111	35,092	16.6	710,931	4,449,179	6.3	166,663	1,327,375	8.0	371,638	1,233,037	3.3	202,026	1,456,822	7.2
1995	2,253	34,607	15.4	640,338	4,186,530	6.5	225,959	1,601,149	7.1	1,951,059	6,934,270	3.6	366,361	2,700,958	7.4
1996	1,526	24,277	15.9	954,670	6,987,584	7.3	147,865	1,068,962	7.2	182,283	530,357	2.9	99,152	774,700	7.8
10-Year^a															
Average Weight			13.4			6.8			7.0			3.2			7.3

^aDoes not include salmon for personal use or subsistence

^bDoes not include salmon caught at Cape Igvak or Southeastern District Mainland destined to Chignik.

^cTen-Year average weight was calculated using 1986-1996 data, including 1989 (oil spill year) where openings and closures were restricted.

Table 7. Salmon processors in the Chignik Management Area, 1996.

Aleutian Dragon Fisheries,
P.O. Box 70668,
Seattle, Wa. 98107

King Crab/Ocean Beauty Seafoods,
621 Shelikof,
Kodiak, Ak. 99615

Chignik Pride Fisheries,
4242 21st Ave. W., Suite 300,
Seattle, Wa. 98199

Trident Seafoods Corp.,
P.O. Box 229,
Sand Point, Ak. 99661

Cook Inlet Processors,
1011 Gibson Cove Rd.,
Kodiak, Ak. 99615

Table 8. Commercial salmon catches in the Chignik Management Area by year, 1960-1996.

Year	Number of Fish ^{a,b,c,d}					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1960	643	715,969	8,933	557,327	486,699	1,769,571
1961	409	322,890	3,088	443,510	178,760	948,657
1962	435	364,753	1,292	1,519,305	364,335	2,250,120
1963	1,744	408,606	9,933	1,662,363	112,697	2,195,343
1964	1,099	556,890	2,735	1,682,365	333,336	2,576,425
1965	1,592	599,553	9,602	1,118,158	120,589	1,849,494
1966	636	219,794	16,050	683,215	238,883	1,158,578
1967	882	462,000	13,150	108,981	75,543	660,556
1968	674	977,382	2,200	1,290,660	223,861	2,494,777
1969	3,448	394,135	18,103	1,779,736	67,721	2,263,143
1970	1,226	1,325,734	15,348	1,157,172	437,252	2,936,732
1971	2,010	1,016,136	14,557	612,290	353,952	1,998,945
1972	464	378,218	19,615	72,161	78,298	548,756
1973	525	870,354	22,322	25,472	8,717	927,390
1974	255	662,905	12,245	69,515	34,312	779,232
1975	549	399,593	53,283	66,165	25,161	544,751
1976	2,290	1,163,728	35,167	395,287	81,403	1,677,875
1977	710	1,972,207	17,430	604,806	110,452	2,705,605
1978	1,603	1,576,283	20,212	985,114	120,889	2,704,101
1979	1,253	1,049,497	99,129	1,905,198	188,907	3,243,984
1980	2,344	859,966	119,573	1,093,184	252,521	2,327,588
1981	2,694	1,839,469	78,805	1,162,613	580,332	3,663,913
1982	5,236	1,521,686	300,273	873,384	390,096	3,090,675
1983	5,488	1,824,175	61,927	321,178	159,412	2,372,180
1984	4,318	2,660,619	110,128	444,804	63,303	3,283,172
1985	1,888	922,151	191,188	160,128	22,806	1,298,161
1986	3,037	1,645,834	116,633	647,125	176,640	2,589,269
1987	2,651	1,898,838	150,414	246,775	127,261	2,425,939
1988	7,296	795,841	370,420	2,997,159	267,775	4,438,491
1989	3,542	1,159,287	68,233	27,712	1,624	1,260,398
1990	9,901	2,093,650	130,131	550,008	270,004	3,053,694
1991	3,157	1,895,665	165,625	1,169,248	261,096	3,494,791
1992	10,832	1,277,449	310,943	1,554,073	222,134	3,375,431
1993	19,515	1,697,351	229,459	1,648,397	122,360	3,717,082
1994	3,919	1,618,973	237,204	431,063	227,276	2,518,435
1995	5,261	1,724,045	280,605	2,057,998	380,949	4,448,858
1996	3,105	1,958,353	193,226	183,806	99,791	2,438,281
Avg (1967-76)	1,232	765,019	20,599	557,744	138,622	1,483,216
Avg (1977-86)	2,857	1,587,189	111,530	819,753	206,536	2,727,865
Avg (1987-96)	6,918	1,611,945	213,626	1,086,624	198,027	3,117,140
Avg (1986-95)	6,911	1,580,693	205,967	1,132,956	205,712	3,132,239

^aCatch does not include Cape Igvak or Southeastern District Mainland Area.

^bCatches (1970-1996) were updated using historical electronic fish ticket databases.

^cDoes not include fish designated for personal use or subsistence.

^dIncludes catches from the department's test fishery.

Table 9. Estimated salmon escapement by district and statistical area in the Chignik Management Area, 1996.

District	Stat Area	Chinook	Sockeye ^a	Coho ^b	Pink ^c	Chum ^c	Total
Chignik Bay	271-10	3,488	750,137	39,898	43,143	16,419	853,085
	Total	3,488	750,137	39,898	43,143	16,419	853,085
Central	272-20	0	0	350	80,736	7,770	88,856
	272-30	0	0	3,000	42,933	2,000	47,933
	272-50	0	1	800	113,475	35,333	149,609
	Total	0	1	4,150	237,144	45,103	286,398
Eastern	272-60	0	1,500	500	301,767	52,000	355,767
	272-70	0	3,000	500	186,563	14,500	204,563
	272-72	0	0	0	61,600	5,005	66,605
	272-80	0	0	5,502	164,884	50,300	220,686
	272-90	0	0	0	248,239	2,650	250,889
	272-92	0	700	0	21,533	5,000	27,233
	272-96	0	0	0	74,987	1,000	75,987
	Total	0	5,200	6,502	1,059,573	130,455	1,201,730
Western	273-70	0	0	0	63,383	607	63,990
	273-72	0	0	0	108,733	4,200	112,933
	273-80	0	0	0	4,044	200	4,244
	273-82	0	0	500	4,277	520	5,297
	273-84	0	0	6,000	17,360	34,000	57,360
	273-94	0	0	0	23,000	5,000	28,000
	Total	0	0	6,500	220,797	44,527	271,824
Perryville	275-40	0	0	7,500	281,963	128,927	418,390
	275-50	0	0	0	100,044	3,050	103,094
	275-60 ^d	0	100	200	13,693	36	14,029
	Total	0	100	7,700	395,700	132,013	535,513
All District Total		3,488	755,438	64,750	1,956,357	368,517	3,148,550

^aSockeye salmon post weir from September 5 until September 16

^bCoho escapement estimates were from Chignik River weir counts, aerial suveys, and methods from Ruggerone (1989). Coho aerial surveys were incomplete because of budget constraints.

^cEscapement estimates for pink and chum were based on Chignik River weir counts, aerial surveys, and expansion methods developed by Johnson and Barrett (1988).

^dA November 2 foot survey in Kametolook River showed 30 chums, 200 coho, and 100 sockeye. These data were included in the above table.

Table 10. Chinook salmon daily and cumulative escapement estimates through the Chignik weir by day, 1996.

Date	Escapement ^{a,b}		Date	Escapement ^{a,b}	
	Daily	Cumulative		Daily	Cumulative
Jun-05	1	1	Jul-22	49	2,626
Jun-06	6	7	Jul-23	37	2,663
Jun-07	0	7	Jul-24	77	2,740
Jun-08	0	7	Jul-25	115	2,855
Jun-09	0	7	Jul-26	50	2,905
Jun-10	0	7	Jul-27	125	3,030
Jun-11	0	7	Jul-28	48	3,078
Jun-12	0	7	Jul-29	53	3,131
Jun-13	0	7	Jul-30	32	3,163
Jun-14	0	7	Jul-31	8	3,171
Jun-15	0	7	Aug-01	25	3,196
Jun-16	0	7	Aug-02	18	3,214
Jun-17	0	7	Aug-03	13	3,227
Jun-18	0	7	Aug-04	6	3,233
Jun-19	7	14	Aug-05	31	3,264
Jun-20	48	62	Aug-06	36	3,300
Jun-21	12	74	Aug-07	6	3,306
Jun-22	6	80	Aug-08	7	3,313
Jun-23	14	94	Aug-09	18	3,331
Jun-24	30	124	Aug-10	14	3,345
Jun-25	12	136	Aug-11	43	3,388
Jun-26	6	142	Aug-12	24	3,412
Jun-27	108	250	Aug-13	6	3,418
Jun-28	144	394	Aug-14	0	3,418
Jun-29	138	532	Aug-15	20	3,438
Jun-30	42	574	Aug-16	18	3,456
Jul-01	117	691	Aug-17	14	3,470
Jul-02	34	725	Aug-18	6	3,476
Jul-03	73	798	Aug-19	6	3,482
Jul-04	24	822	Aug-20	3	3,485
Jul-05	90	912	Aug-21	0	3,485
Jul-06	34	946	Aug-22	0	3,485
Jul-07	0	946	Aug-23	0	3,485
Jul-08	18	964	Aug-24	1	3,486
Jul-09	12	976	Aug-25	0	3,486
Jul-10	270	1,246	Aug-26	0	3,486
Jul-11	42	1,288	Aug-27	0	3,486
Jul-12	114	1,402	Aug-28	1	3,487
Jul-13	125	1,527	Aug-29	0	3,487
Jul-14	72	1,599	Aug-30	1	3,488
Jul-15	110	1,709	Aug-31	0	3,488
Jul-16	110	1,819	Sep-01	0	3,488
Jul-17	275	2,094	Sep-02	0	3,488
Jul-18	176	2,270	Sep-03	0	3,488
Jul-19	114	2,384	Sep-04	0	3,488
Jul-20	151	2,535	Sep-05	Weir Out	
Jul-21	42	2,577			

^a No escapement adjustments are made for chinook salmon that escape after the weir is removed, or those that spawn below the weir, or those removed by the sport fishery.

^b The chinook salmon biological escapement goal is 1,450 fish.

Table 11. Sockeye salmon daily and cumulative escapement estimates through the Chignik weir by day, 1996.

Date	Escapement		Date	Escapement	
	Daily	Cumulative		Daily	Cumulative
May-27	7	7	Jul-07	3,384	435,717
May-28	125	132	Jul-08	1,805	437,522
May-29	229	361	Jul-09	2,044	439,566
May-30	403	764	Jul-10	5,159	444,725
May-31	255	1,019	Jul-11	8,577	453,302
Jun-01	1,113	2,132	Jul-12	19,372	472,674
Jun-02	3,424	5,556	Jul-13	10,777	483,451
Jun-03	5,036	10,592	Jul-14	1,113	484,564
Jun-04	6,655	17,247	Jul-15	1,492	486,056
Jun-05	5,399	22,646	Jul-16	1,908	487,964
Jun-06	8,825	31,471	Jul-17	11,618	499,582
Jun-07	6,076	37,547	Jul-18	19,720	519,302
Jun-08	9,863	47,410	Jul-19	14,049	533,351
Jun-09	18,867	66,277	Jul-20	4,393	537,744
Jun-10	19,681	85,958	Jul-21	755	538,499
Jun-11	6,866	92,824	Jul-22	2,189	540,688
Jun-12	6,315	99,139	Jul-23	4,534	545,222
Jun-13	4,734	103,873	Jul-24	13,492	558,714
Jun-14	2,626	106,499	Jul-25	14,722	573,436
Jun-15	2,260	108,759	Jul-26	12,612	586,048
Jun-16	3,936	112,695	Jul-27	8,416	594,464
Jun-17	24,807	137,502	Jul-28	13,570	608,034
Jun-18	57,114	194,616	Jul-29	10,923	618,957
Jun-19	6,297	200,913	Jul-30	9,532	628,489
Jun-20	7,175	208,088	Jul-31	6,720	635,209
Jun-21	15,147	223,235	Aug-01	3,840	639,049
Jun-22	43,979	267,214	Aug-02	1,394	640,443
Jun-23	22,573	289,787	Aug-03	1,555	641,998
Jun-24	3,629	293,416	Aug-04	841	642,839
Jun-25	5,875	299,291	Aug-05	1,300	644,139
Jun-26	31,022	330,313	Aug-06	1,162	645,301
Jun-27	47,056	377,369	Aug-07	2,492	647,793
Jun-28	10,679	388,048	Aug-08	6,478	654,271
Jun-29	4,311	392,359	Aug-09	9,446	663,717
Jun-30	7,491	399,850	Aug-10	2,159	665,876
Jul-01	8,682	408,532	Aug-11	2,325	668,201
Jul-02	6,671	415,203	Aug-12	4,566	672,767
Jul-03	3,286	418,489	Aug-13	2,159	674,926
Jul-04	1,999	420,488	Aug-14	1,789	676,715
Jul-05	5,920	426,408	Aug-15	6,060	682,775
Jul-06	5,925	432,333	Aug-16	6,052	688,827
Aug-17	3,452	692,279	Sep-03	1,120	732,043
Aug-18	1,479	693,758	Sep-04	1,346	733,389
Aug-19	1,885	695,643		Weir Removed ^a	

-Continued-

Table 11. (page 2 of 2)

Date	Escapement		Date	Escapement	
	Daily	Cumulative		Daily	Cumulative
Aug-20	899	696,542	Sep-05	3648	737,037
Aug-21	1,864	698,406	Sep-06	3153	740,190
Aug-22	1,737	700,143	Sep-07	2725	742,915
Aug-23	3,983	704,126	Sep-08	578	743,493
Aug-24	4,291	708,417	Sep-09	664	744,157
Aug-25	2,953	711,370	Sep-10	654	744,811
Aug-26	1,248	712,618	Sep-11	444	745,255
Aug-27	1,352	713,970	Sep-12	1314	746,569
Aug-28	1,527	715,497	Sep-13	1136	747,705
Aug-29	2,059	717,556	Sep-14	982	748,687
Aug-30	5,146	722,702	Sep-15	142	748,829
Aug-31	5,845	728,547	Sep-16	141	748,970
Sep-01	1,424	729,971	Sep-17	167	749,137
Sep-02	952	730,923	Post WeirTotal	15,748	

^a Time series analysis using the relationship of catch and escapement was used to estimate sockeye escapement after the weir was removed on September 5 until the commercial season closed on September 16. The September 17 estimate was possible because the estimate was based on back dating the escapement 1 day to the Chignik Lagoon date.

Table 12. Pink, coho, and chum salmon daily and cumulative escapement estimates through the Chignik weir, 1996.

Date	Pink Escapement		Coho Escapement		Chum Escapement	
	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative
Jul-01	6	6	0	0	0	0
Jul-02	0	0	0	0	0	0
Jul-03	0	0	0	0	0	0
Jul-04	0	0	0	0	0	0
Jul-05	0	0	0	0	0	0
Jul-06	0	0	0	0	0	0
Jul-07	0	0	0	0	0	0
Jul-08	0	0	0	0	0	0
Jul-09	0	0	0	0	0	0
Jul-10	0	0	0	0	0	0
Jul-11	0	0	0	0	0	0
Jul-12	0	0	0	0	0	0
Jul-13	0	0	0	0	0	0
Jul-14	0	0	0	0	0	0
Jul-15	6	12	0	0	0	0
Jul-16	6	18	0	0	0	0
Jul-17	12	30	0	0	0	0
Jul-18	0	30	0	0	0	0
Jul-19	18	48	0	0	0	0
Jul-20	48	96	0	0	0	0
Jul-21	102	198	0	0	0	0
Jul-22	18	216	0	0	0	0
Jul-23	12	228	0	0	6	6
Jul-24	18	246	0	0	6	12
Jul-25	12	258	0	0	0	12
Jul-26	0	258	0	0	6	18
Jul-27	3	261	0	0	6	24
Jul-28	36	297	0	0	0	24
Jul-29	6	303	0	0	6	30
Jul-30	6	309	0	0	6	36
Jul-31	6	315	0	0	0	36
Aug-01	42	357	0	0	0	36
Aug-02	54	411	0	0	0	36
Aug-03	30	441	0	0	0	36
Aug-04	25	466	0	0	0	36
Aug-05	37	503	0	0	0	36
Aug-06	48	551	6	6	6	42
Aug-07	34	585	0	6	0	42
Aug-08	37	622	6	12	0	42
Aug-09	129	751	6	18	6	48
Aug-10	41	792	6	24	0	48
Aug-11	33	825	0	24	0	48
Aug-12	434	1,259	0	24	12	60
Aug-13	392	1,651	6	30	0	60
Aug-14	182	1,833	0	30	0	60
Aug-15	194	2,027	18	48	0	60
Aug-16	158	2,185	60	108	0	60
Aug-17	230	2,415	79	187	0	60
Aug-18	198	2,613	36	223	12	72

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Table 12. (page 2 of 2)

Date	<u>Pink Escapement</u>		<u>Coho Escapement</u>		<u>Chum Escapement</u>	
	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative
Aug-19	310	2,923	30	253	6	78
Aug-20	264	3,187	30	283	0	78
Aug-21	438	3,625	156	439	6	84
Aug-22	188	3,813	162	601	6	90
Aug-23	461	4,274	1,623	2,224	0	90
Aug-24	109	4,383	1,029	3,253	6	96
Aug-25	217	4,600	700	3,953	0	96
Aug-26	268	4,868	1,095	5,048	0	96
Aug-27	196	5,064	872	5,920	0	96
Aug-28	142	5,206	664	6,584	10	106
Aug-29	87	5,293	939	7,523	0	106
Aug-30	238	5,531	1,452	8,975	0	106
Aug-31	204	5,735	2,214	11,189	0	106
Sep-01	115	5,850	2,259	13,448	24	130
Sep-02	63	5,913	1,371	14,819	6	136
Sep-03	81	5,994	823	15,642	0	136
Sep-04	36	6,030	1,201	16,843	0	136
	Post Weir					
Sep-05			4,459	21,302		
Sep-06			4,216	25,518		
Sep-07			3,974	29,492		
Sep-08			1,142	30,634		
Sep-09			870	31,504		
Sep-10			709	32,213		
Sep-11			684	32,897		
Sep-12			2,337	35,234		
Sep-13			1,879	37,113		
Sep-14			1,420	38,533		
Sep-15			130	38,663		
Sep-16			100	38,763		
Sep-17			135	38,898		
^a Post Weir Estimate			22,055			

^a Time series analysis using the relationship of catch and escapement was used to estimate coho escapement after the weir was removed on September 5 until the commercial season closed on September 16. The September 17 estimate was possible because the estimate was based on back dating the Chignik weir escapement by one day to the Chignik Lagoon date.

Table 13. Economic value of salmon and average income per commercial salmon permit fished, in dollars, in the Chignik Management Area, 1970-1996.

Date	Chinook		Sockeye		Coho		Pink		Chum		Total Value	Number Of Permits Fished	Total Value Per Permit
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average			
1970	6,129	89	2,190,272	31,743	18,397	267	635,673	9,213	376,025	5,450	3,226,496	69	46,761
1971	6,472	84	2,034,279	26,419	23,240	302	366,693	4,762	326,760	4,244	2,757,444	77	35,811
1972	2,028	28	825,498	11,308	35,699	489	48,401	663	87,759	1,202	999,385	79	12,650
1973	5,255	72	3,030,057	41,508	73,663	1,009	20,610	282	10,180	139	3,139,765	77	40,776
1974	2,941	32	3,618,781	39,767	31,933	351	64,069	704	51,125	562	3,768,849	94	40,094
1975	6,561	76	1,384,271	16,240	213,539	2,581	104,115	12,211	61,704	717	1,770,190	86	20,584
1976	13,800	179	4,751,000	61,701	138,000	1,792	568,300	7,381	183,600	2,384	5,654,700	77	73,438
1977	18,828	212	14,553,720	163,525	104,819	1,178	920,881	10,347	368,066	4,136	15,966,314	88	181,435
1978	56,700	597	15,653,500	164,774	116,400	1,225	1,131,500	11,911	404,500	4,258	17,362,600	95	182,764
1979	32,050	317	11,345,503	112,332	710,192	7,031	2,622,269	25,963	126,866	1,256	14,836,880	101	146,900
1980	67,657	670	5,532,290	54,775	520,655	5,155	1,477,060	14,624	1,061,963	10,514	8,659,625	101	85,739
1981	75,231	730	17,262,119	167,593	439,900	4,271	1,881,334	18,265	2,431,421	23,606	22,090,005	103	214,466
1982	75,276	717	13,038,510	124,176	1,782,027	16,972	578,184	5,506	1,356,597	12,920	16,830,594	105	160,291
1983	96,159	962	10,728,088	107,281	219,650	2,197	240,171	2,402	421,713	4,217	11,705,781	100	117,058
1984	114,502	1,134	20,402,076	202,000	759,972	7,525	330,916	3,276	146,024	1,446	21,753,490	101	215,381
1985	67,088	664	7,997,834	79,186	1,471,418	14,568	140,076	1,387	59,475	589	8,735,891	101	86,494
1986	84,800	848	16,882,290	168,823	667,740	6,677	356,147	3,562	456,546	4,565	18,447,523	100	184,475
1987	72,739	706	24,783,033	240,612	1,035,129	10,050	269,868	2,620	339,819	3,299	26,500,588	102	259,810
1988	286,740	2,811	14,350,354	140,690	4,153,424	40,720	6,771,266	66,385	2,189,293	21,464	27,751,077	102	272,069
1989 ^a	78,999	790	13,047,378	130,474	436,892	4,369	32,994	3,299	4,745	47	13,601,008	100	136,010
1990	185,256	1,834	22,509,923	222,871	700,309	6,934	502,693	4,977	878,510	8,698	24,776,691	101	245,314
1991	50,027	486	11,002,784	106,823	650,626	6,317	402,916	3,912	502,860	4,882	12,609,213	101	124,844
1992	193,326	1,858	12,552,025	120,693	1,323,107	12,722	811,882	7,807	414,005	3,981	15,294,345	101	151,429
1993	175,690	1,722	8,210,106	80,491	730,622	7,163	637,666	6,252	184,012	1,804	9,938,096	102	97,432
1994	38,096	385	10,046,245	101,477	1,094,415	11,055	226,504	2,208	430,888	4,352	11,836,148	99	119,557
1995	60,174	602	11,969,210	119,692	834,337	8,343	977,811	9,778	634,780	6,348	14,476,312	100	144,763
1996	25,041	250	12,640,560	126,406	447,228	4,472	24,827	248	32,279	323	13,169,935	100	131,699
10-yr Averages													
1977-1986	68,829	685	13,339,593	134,447	679,277	6,680	967,854	9,724	683,317	6,751	15,638,870	100	157,500
1987-1996	116,609	1,144	14,111,162	139,023	1,140,609	11,215	1,065,843	10,749	561,119	5,520	16,995,341	101	168,293
1986-1995	122,585	1,204	14,535,335	143,265	1,162,660	11,435	1,098,975	11,080	603,546	5,944	17,523,100	101	173,570

^aExxon Valdex Oil Spill

Table 14. Chignik River chinook salmon escapement, Chignik Management Area catch, and total run, 1960-1996.

Year	Escapement ^{a,b,c}	Catch	Total Run
1960	-	643	643
1961	-	409	409
1962	-	435	435
1963	564	1,744	2,308
1964	914	1,099	2,013
1965	942	1,592	2,534
1966	822	636	1,458
1967	1,500	882	2,382
1968	1,000	674	1,674
1969	600	3,448	4,048
1970	2,500	1,226	3,726
1971	2,000	2,010	4,010
1972	1,500	464	1,964
1973	822	525	1,347
1974	672	255	927
1975	877	549	1,426
1976	700	2,290	2,990
1977	798	710	1,508
1978	1,197	1,603	2,800
1979	1,050	1,253	2,303
1980	876	2,344	3,220
1981	1,603	2,694	4,297
1982	2,412	5,236	7,648
1983	1,943	5,488	7,431
1984	5,806	4,318	10,124
1985	3,144	1,888	5,032
1986	3,612	3,037	6,649
1987	2,624	2,651	5,275
1988	4,868	7,296	12,164
1989	3,316	3,542	6,858
1990	4,364	9,901	14,265
1991	4,531	3,157	7,702
1992	3,806	10,832	14,638
1993	1,946	19,515	21,461
1994	2,963	3,919	6,935
1995	4,288	5,261	9,549
1996	3,488	3,105	6,593
Avg (1967-76)	1,217	1,232	2,449
Avg (1977-86)	2,244	2,857	5,101
Avg (1987-96)	3,619	6,918	10,544
Avg (1986-95)	3,632	6,911	10,550

^a No escapement adjustments are made for chinook salmon that escape after the weir is removed, those that spawn below the weir, or those removed by the sport fishery.

^b The chinook biological escapement goal is estimated at 1,450 fish.

^c Does not include chinook salmon utilized for personal use or listed on a subsistence permit.

Table 15. Sockeye salmon age composition for Black Lake from scale samples collected at the Black Lake outlet, 1996.

Date	Sample Size	Age Class (Percent)							
		0.3	1.1	1.2	1.3	1.4	2.2	2.3	2.4
21-Jun	550	7.8	0.2	5.1	70.5	0.2	0.0	16.2	0.0
22-Jun	721	8.5	0.0	2.6	73.4	0.3	0.1	15.0	0.1
24-Jun	536	13.2	0.0	0.9	72.6	0.2	0.0	13.1	0.0
Total	1,807	9.7	0.1	2.9	72.3	0.2	0.1	14.8	0.1

Table 16. Sockeye and chinook salmon age composition from scale samples collected from the Chignik Lagoon commercial fishery and the test fishery, 1996.

Date	Sample Size	Sockeye Salmon Age Composition (Percent)												
		0.2	0.3	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	3.2	3.3	Other
5-Jun ^a	507	0.0	12.2	0.0	1.2	51.9	0.2	0.0	0.4	33.9	0.0	0.0	0.0	0.2
8-Jun ^a	533	0.0	7.3	0.0	2.4	61.5	0.2	0.0	0.4	28.0	0.0	0.0	0.2	0.0
14-Jun	545	0.4	7.3	0.0	2.0	67.5	0.4	0.0	0.6	21.3	0.0	0.0	0.4	0.2
21-Jun	503	0.2	7.2	0.0	3.2	70.6	0.4	0.2	1.4	16.9	0.0	0.0	0.0	0.0
28-Jun	511	0.0	4.1	0.0	2.0	49.1	0.2	0.0	1.8	41.9	0.0	0.0	1.0	0.0
2-Jul	522	0.2	4.4	0.0	2.7	50.6	0.0	0.0	3.3	37.7	0.0	0.0	1.1	0.0
5-Jul	500	0.0	3.2	0.0	1.2	49.6	0.0	0.2	0.6	44.0	0.4	0.0	0.8	0.0
7-Jul	501	0.0	1.0	0.0	2.4	42.7	0.4	0.0	3.4	47.1	0.6	0.0	2.4	0.0
12-Jul	481	0.0	1.7	0.0	2.7	32.4	0.0	0.4	5.4	53.4	0.2	0.0	3.7	0.0
14-Jul	495	0.0	0.8	0.0	2.6	26.3	0.2	0.2	6.9	56.4	1.2	0.0	5.3	0.2
18-Jul	463	0.0	0.6	0.0	1.5	24.6	0.2	0.2	7.8	62.2	0.2	0.0	2.6	0.0
21-Jul ^a	527	0.0	0.6	0.2	2.8	20.5	0.6	0.4	8.2	61.5	0.4	0.0	4.9	0.0
1-Aug	454	0.0	0.7	0.2	2.2	11.9	0.0	4.4	15.4	50.9	1.3	0.2	12.6	0.2
13-Aug	472	0.0	0.2	0.0	0.4	6.6	0.0	3.4	13.1	57.6	3.2	0.0	15.5	0.0
17-Aug	454	0.0	0.4	0.0	0.9	5.1	0.7	1.1	15.6	55.3	2.2	0.0	18.7	0.0
25-Aug	470	0.0	0.0	0.0	0.2	4.9	0.0	1.1	19.1	47.2	1.9	0.2	24.9	0.4
1-Sep	491	0.0	0.0	0.0	0.4	3.3	0.0	0.6	32.0	38.9	2.9	1.2	20.6	0.2
Total	8,429	0.0	3.2	0.0	1.8	35.0	0.2	0.7	7.7	43.9	0.8	0.1	6.5	0.1

Date	Sample Size	Chinook Salmon Age Composition (Percent)					
		1.2	1.3	1.4	1.5	2.3	2.4
All Season	105	8.6	24.8	52.4	12.4	1.0	1.0

^aScales collected from the department's test fishery.

Table 17. Sockeye salmon escapement through the Chignik River weir for Chignik Lake and Black Lake using daily percentages derived from the inseason scale pattern analysis time of entry curve, 1996.

Date	Total		Chignik Lake			Black Lake
	Daily	Cumulative	Percent	Daily	Cumulative	Cumulative
May-27	7	7	20.1	1	1	6
May-28	125	132	20.1	25	26	106
May-29	229	361	20.1	46	72	289
May-30	403	764	20.1	81	153	611
May-31	255	1,019	20.1	51	204	815
Jun-01	1,113	2,132	20.1	223	427	1,705
Jun-02	3,424	5,556	20.1	687	1,114	4,442
Jun-03	5,036	10,592	20.1	1,011	2,125	8,467
Jun-04	6,655	17,247	20.1	1,335	3,460	13,787
Jun-05	5,399	22,646	20.1	1,083	4,543	18,103
Jun-06	8,825	31,471	20.5	1,810	6,353	25,118
Jun-07	6,076	37,547	19.4	1,176	7,529	30,018
Jun-08	9,863	47,410	18.2	1,795	9,324	38,086
Jun-09	18,867	66,277	17.0	3,216	12,540	53,737
Jun-10	19,681	85,958	16.5	3,249	15,789	70,169
Jun-11	6,866	92,824	16.0	1,097	16,886	75,938
Jun-12	6,315	99,139	15.4	975	17,861	81,278
Jun-13	4,734	103,873	14.9	705	18,566	85,307
Jun-14	2,626	106,499	14.4	377	18,943	87,556
Jun-15	2,260	108,759	13.8	312	19,255	89,504
Jun-16	3,936	112,695	14.5	573	19,828	92,867
Jun-17	24,807	137,502	15.3	3,789	23,617	113,885
Jun-18	57,114	194,616	16.0	9,140	32,757	161,859
Jun-19	6,297	200,913	16.7	1,053	33,810	167,103
Jun-20	7,175	208,088	17.5	1,252	35,062	173,026
Jun-21	15,147	223,235	18.2	2,754	37,816	185,419
Jun-22	43,979	267,214	18.9	8,316	46,132	221,082
Jun-23	22,573	289,787	17.8	4,007	50,139	239,648
Jun-24	3,629	293,416	16.6	602	50,741	242,675
Jun-25	5,875	299,291	15.4	907	51,648	247,643
Jun-26	31,022	330,313	14.3	4,432	56,080	274,233
Jun-27	47,056	377,369	13.1	6,178	62,258	315,111
Jun-28	10,679	388,048	12.0	1,279	63,537	324,511
Jun-29	4,311	392,359	10.8	466	64,003	328,356
Jun-30	7,491	399,850	12.4	933	64,936	334,914
Jul-01	8,682	408,532	14.1	1,222	66,158	342,374
Jul-02	6,671	415,203	15.7	1,048	67,206	347,997
Jul-03	3,286	418,489	17.3	570	67,776	350,713
Jul-04	1,999	420,488	17.7	355	68,131	352,357
Jul-05	5,920	426,408	18.1	1,074	69,205	357,203
Jul-06	5,925	432,333	18.5	1,098	70,303	362,030
Jul-07	3,384	435,717	28.3	956	71,259	364,458
Jul-08	1,805	437,522	38.0	686	71,945	365,577
Jul-09	2,044	439,566	37.6	768	72,713	366,853
Jul-10	5,159	444,725	37.2	1,919	74,632	370,093
Jul-11	8,577	453,302	36.8	3,156	77,788	375,514
Jul-12	19,372	472,674	36.4	7,052	84,840	387,834
Jul-13	10,777	483,451	39.9	4,300	89,140	394,311
Jul-14	1,113	484,564	51.4	572	89,712	394,852
Jul-15	1,492	486,056	62.8	937	90,649	395,407

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Date	Total		Chignik Lake			Black Lake
	Daily	Cumulative	Percent	Daily	Cumulative	Cumulative
Jul-16	1,908	487,964	65.3	1,246	91,895	396,069
Jul-17	11,618	499,582	67.9	7,889	99,784	399,798
Jul-18	19,720	519,302	70.5	13,903	113,687	405,615
Jul-19	14,049	533,351	75.6	10,621	124,308	409,043
Jul-20	4,393	537,744	77.6	3,409	127,717	410,027
Jul-21	755	538,499	79.6	601	128,318	410,181
Jul-22	2,189	540,688	81.3	1,780	130,098	410,590
Jul-23	4,534	545,222	83.7	3,795	133,893	411,329
Jul-24	13,492	558,714	85.8	11,576	145,469	413,245
Jul-25	14,722	573,436	87.8	12,926	158,395	415,041
Jul-26	12,612	586,048	89.8	11,326	169,721	416,327
Jul-27	8,416	594,464	91.8	7,726	177,447	417,017
Jul-28	13,570	608,034	92.8	12,593	190,040	417,994
Jul-29	10,923	618,957	93.9	10,257	200,297	418,660
Jul-30	9,532	628,489	95.9	9,141	209,438	419,051
Jul-31	6,720	635,209	98.0	6,586	216,024	419,185
Aug-01	3,840	639,049	100.0	3,840	219,864	419,185
Aug-02	1,394	640,443	100.0	1,394	221,258	419,185
Aug-03	1,555	641,998	100.0	1,555	222,813	419,185
Aug-04	841	642,839	100.0	841	223,654	419,185
Aug-05	1,300	644,139	100.0	1,300	224,954	419,185
Aug-06	1,162	645,301	100.0	1,162	226,116	419,185
Aug-07	2,492	647,793	100.0	2,492	228,608	419,185
Aug-08	6,478	654,271	100.0	6,478	235,086	419,185
Aug-09	9,446	663,717	100.0	9,446	244,532	419,185
Aug-10	2,159	665,876	100.0	2,159	246,691	419,185
Aug-11	2,325	668,201	100.0	2,325	249,016	419,185
Aug-12	4,566	672,767	100.0	4,566	253,582	419,185
Aug-13	2,159	674,926	100.0	2,159	255,741	419,185
Aug-14	1,789	676,715	100.0	1,789	257,530	419,185
Aug-15	6,060	682,775	100.0	6,060	263,590	419,185
Aug-16	6,052	688,827	100.0	6,052	269,642	419,185
Aug-17	3,452	692,279	100.0	3,452	273,094	419,185
Aug-18	1,479	693,758	100.0	1,479	274,573	419,185
Aug-19	1,885	695,643	100.0	1,885	276,458	419,185
Aug-20	899	696,542	100.0	899	277,357	419,185
Aug-21	1,864	698,406	100.0	1,864	279,221	419,185
Aug-22	1,737	700,143	100.0	1,737	280,958	419,185
Aug-23	3,983	704,126	100.0	3,983	284,941	419,185
Aug-24	4,291	708,417	100.0	4,291	289,232	419,185
Aug-25	2,953	711,370	100.0	2,953	292,185	419,185
Aug-26	1,248	712,618	100.0	1,248	293,433	419,185
Aug-27	1,352	713,970	100.0	1,352	294,785	419,185
Aug-28	1,527	715,497	100.0	1,527	296,312	419,185
Aug-29	2,059	717,556	100.0	2,059	298,371	419,185
Aug-30	5,146	722,702	100.0	5,146	303,517	419,185
Aug-31	5,845	728,547	100.0	5,845	309,362	419,185
Sep-01	1,424	729,971	100.0	1,424	310,786	419,185
Sep-02	952	730,923	100.0	952	311,738	419,185
Sep-03	1,120	732,043	100.0	1,120	312,858	419,185
Sep-04	1,346	733,389	100.0	1,346	314,204	419,185

Table 18. Harvest of Chignik bound sockeye salmon in the Chignik, Cape Igvak, and Southeast District Mainland Areas from 1964-1996.

Year	Chignik Area		Cape Igvak ^a		Mainland Area ^a		Total All Areas
	Catch	Percent	Catch	Percent	Catch	Percent	
1964 ^b	556,890	90.57	14,980	2.44	43,021	7.00	614,891
1965	599,553	89.94	11,021	1.65	56,020	8.40	666,594
1966	219,794	87.99	18,003	7.21	12,011	4.81	249,808
1967	462,000	91.48	23,014	4.56	20,021	3.96	505,035
1968	977,382	82.53	135,951	11.48	70,959	5.99	1,184,292
1969	394,135	78.96	97,982	19.63	7,013	1.41	499,130
1970 ^c	1,325,734	72.51	434,394	23.76	68,181	3.73	1,828,309
1971	1,016,136	80.33	197,614	15.62	51,272	4.05	1,265,022
1972	378,218	87.99	33,865	7.88	17,752	4.13	429,835

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

1973 ^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	5.60	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	1,710,249	79.70	308,327	14.37	127,201	5.93	2,145,777

^a The Cape Igvak and Southeast District Mainland figures represent 80% of the total sockeye catches for those areas as it is estimated that roughly 80% of the sockeye caught in the Cape Igvak section and Southeast District Mainland Area (excluding sockeye caught in Northwest Stepvak Section from 1964-1991 and in Orzinski bay in 1992 are destined for Chignik.

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- ^b The data from 1964-1972 are based on total yearly catches. Prior to 1973, Cape Igvak and Southeast District Mainland fisheries were set by regulation to weekly fishing periods, usually 5 days per week. Time modifications were implemented when poor escapements occurred at Chignik.
- ^c Catches (1970-1992) were updated using historical electronic fish ticket databases.
- ^d During 1974 through 1977 all three fisheries were managed on a day by day basis.
- ^e Beginning in 1978, the Cape Igvak Fishery Management Plan allocated 15 percent of the total sockeye catch destined for Chignik.
- ^f During 1978, seining prior to July 11 was disallowed in the Southeast District Mainland. The set gillnet fishery was allowed to fish 3 days per week through July 10 after which the fishery was managed on the basis of local stocks.
- ^g During 1979-1984 and prior to July 11, fishing was allowed 5 days per week in the Southeast District Mainland Area with a ceiling of an estimated 60,000 sockeye destined for Chignik. If the Chignik Area sockeye catch was 1,000,000 or more before July 11, the 60,000 ceiling was to be dropped.
- ^h Beginning in 1985, Southeast District Mainland Area (excluding the Northwest Stepovak Section from 1964-1991 and Orzinski Bay statistical area) was placed on an allocation of 6.2 percent of the total estimated Chignik sockeye catch through July 25. After July 25, the Southeast District Mainland is managed on a local stock basis. The allocation changed to 6.0 percent beginning in 1988. Seining is still not allowed prior to July 11.
- ⁱ Includes overescapement of 278,305 sockeye counted past the weir during the Chignik Area seiners' boycott (June 23-July 4).
- ^j Review of Orzinski Lake historical and current escapement records led the Alaska Board of Fisheries to redefine the Southeast District Mainland Management Plan. Beginning in 1992, the Southeast District Mainland fishery (excluding Orzinski Bay) was placed on an allocation of 7.0 percent of the total estimated Chignik sockeye catch through July 25.
- ^k Includes overescapement of 208,921 sockeye counted past the weir during the Chignik Area seiners' strike (June 22-June 25).
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Table 19. Total Chignik Management Area and 80 percent of the sockeye harvest in the Cape Igvak and Southeast District Mainland Areas through July 25 and season's total for each area, 1964-1996.

Year	Harvest to July 25 Only ^a				Harvest for Entire Season ^a			
	Chignik	Igvak	Mainland	Total	Chignik	Igvak	Mainland	Total
1964	-	-	-	-	556,890	14,980	43,021	614,891
1965	-	-	-	-	599,553	11,021	56,020	666,594
1966	-	-	-	-	219,794	18,003	12,011	249,808
1967	-	-	-	-	462,000	23,014	20,021	505,035
1968	-	-	-	-	977,382	135,951	70,959	1,184,292
1969	-	-	-	-	394,135	97,982	7,013	499,130
1970	-	-	-	-	1,325,734	434,394	68,181	1,828,309
1971	-	-	-	-	1,016,136	197,614	51,272	1,265,022
1972	-	-	-	-	378,218	33,865	17,752	429,835
1973	769,258	57,348	37,983	864,589	870,354	57,348	38,635	966,337
1974	530,278	122,071	68,029	720,378	662,905	122,071	68,980	853,956
1975	115,984	23,635	2,205	141,824	399,593	23,635	2,205	425,433
1976	792,024	117,926	44,730	954,680	1,163,728	117,978	46,155	1,327,861
1977	1,547,285	128,852	35,502	1,711,639	1,972,207	128,852	39,405	2,140,464
1978	1,454,389	227,014	22,064	1,703,467	1,576,283	227,052	24,102	1,827,437
1979	794,504	13,950	56,878	865,332	1,049,497	20,436	83,837	1,153,770
1980	670,001	32	63,724	733,757	859,966	631	88,752	949,349
1981	1,606,300	282,727	122,533	2,011,560	1,839,469	284,211	167,357	2,291,037
1982	1,250,768	167,401	62,767	1,480,936	1,521,686	168,295	86,886	1,776,867
1983	1,450,832	318,048	227,392	1,996,272	1,824,175	323,004	297,429	2,444,608
1984	2,474,405	449,372	423,068	3,346,845	2,660,619	450,066	487,938	3,598,623
1985	696,169	123,627	51,421	871,217	922,151	125,134	93,206	1,140,491
1986	1,456,729	188,017	118,006	1,762,752	1,645,834	188,129	147,056	1,981,019
1987	1,659,615	321,506	146,886	2,128,007	1,898,538	344,117	188,983	2,431,638
1988	675,487	11,218	19,320	706,025	792,416	28,783	79,101	900,300
1989	496,044	0	4,485	500,529	1,152,854	0	138,594	1,291,448
1990	1,205,575	107,706	128,599	1,441,880	2,088,128	133,821	216,944	2,438,893
1991 ^b	1,958,954	324,329	152,714	2,435,997	2,165,864	341,869	228,934	2,736,667
1992	1,054,309	152,358	93,845	1,300,512	1,265,026	156,318	177,715	1,599,059
1993	1,495,098	300,055	128,536	1,923,689	1,691,907	329,907	222,591	2,244,405
1994 ^c	1,632,435	250,230	142,350	2,025,015	1,818,755	257,827	226,562	2,303,144
1995	1,024,785	169,530	88,302	1,282,617	1,715,022	197,697	270,589	2,183,308
1996	1,710,249	308,327	127,201	2,145,777	1,954,036	309,543	183,321	2,446,900

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

Data does not include test fishery catches. The criteria established by the Board of Fisheries to allocate Chignik Bound sockeye salmon at Cape Igvak and Southeastern District Mainland each year through July 25 was extrapolated from July 26 through the end of each year's fishing season to estimate total catch of Chignik bound salmon.

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

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

Table 20. Estimated stock composition of age 1.3 Chignik sockeye salmon from commercial catch samples, based on postseason scale pattern analysis, 1996.

Sample Date	Sample Size (n)	Stock	Adjusted ^a Estimate	Estimated Variance	Smoothed ^b Estimate
5-Jun	102	Black Lake	0.795	0.06565	0.877
		Chignik Lake	0.205	0.06565	0.123
8-Jun	102	Black Lake	0.837	0.06322	0.836
		Chignik Lake	0.163	0.06322	0.164
14-Jun	101	Black Lake	0.876	0.06140	0.849
		Chignik Lake	0.124	0.06140	0.151
21-Jun	101	Black Lake	0.834	0.06383	0.848
		Chignik Lake	0.166	0.06383	0.152
28-Jun	101	Black Lake	0.834	0.06383	0.724
		Chignik Lake	0.166	0.06383	0.276
2-Jul	102	Black Lake	0.505	0.07477	0.578
		Chignik Lake	0.495	0.07477	0.422
5-Jul	100	Black Lake	0.394	0.07660	0.505
		Chignik Lake	0.606	0.07660	0.495
7-Jul	102	Black Lake	0.616	0.07234	0.436
		Chignik Lake	0.384	0.07234	0.564
12-Jul	102	Black Lake	0.298	0.07599	0.351
		Chignik Lake	0.702	0.07599	0.649
14-Jul	100	Black Lake	0.140	0.07538	0.230
		Chignik Lake	0.860	0.07538	0.770
18-Jul	103	Black Lake	0.251	0.07538	0.210
		Chignik Lake	0.749	0.07538	0.790
21-Jul	100	Black Lake	0.239	0.07660	0.163
		Chignik Lake	0.761	0.07660	0.837

^aAdjustment were made using Cook and Lord correction procedures.

^bSmoothing was done by a running average of 3, assuring an initial proportion of 0.0 and an ending proportion of 1.0 for Chignik Lake.

Table 21. Estimated stock composition of age 2.3 Chignik sockeye salmon from commercial catch samples, based on postseason scale pattern analysis, 1996.

Sample Date	Sample Size (n)	Stock	Adjusted ^a Estimate	Estimated Variance	Smoothed ^b Estimate
5-Jun	101	Black Lake	0.765	0.08146	0.922
		Chignik Lake	0.235	0.08146	0.078
8-Jun	101	Black Lake	1.000	0.06383	0.922
		Chignik Lake	0.000	0.06383	0.078
14-Jun	97	Black Lake	1.000	0.06444	1.000
		Chignik Lake	0.000	0.06444	0.000
21-Jun	74	Black Lake	1.000	0.07538	1.000
		Chignik Lake	0.000	0.07538	0.000
28-Jun	99	Black Lake	1.000	0.06809	1.000
		Chignik Lake	0.000	0.06809	0.000
2-Jul	99	Black Lake	1.000	0.06444	0.920
		Chignik Lake	0.000	0.06444	0.080
5-Jul	100	Black Lake	0.759	0.08207	0.920
		Chignik Lake	0.241	0.08207	0.080
7-Jul	98	Black Lake	1.000	0.06930	0.891
		Chignik Lake	0.000	0.06930	0.109
12-Jul	100	Black Lake	0.914	0.07842	0.903
		Chignik Lake	0.086	0.07842	0.097
14-Jul	101	Black Lake	0.796	0.08085	0.825
		Chignik Lake	0.204	0.08085	0.175
18-Jul	101	Black Lake	0.765	0.08146	0.786
		Chignik Lake	0.235	0.08146	0.214
21-Jul	101	Black Lake	0.796	0.08085	0.520
		Chignik Lake	0.204	0.08085	0.480

^aAdjustments were made using Cook and Lord correction procedures.

^bSmoothing was done by a running average of 3, assuring an initial proportion of 0.0 and an ending proportion of 1.0 for Chignik Lake.

Table 22. Daily Chignik River sockeye escapement, catch destined to the Chignik Lakes system, and total run, by day and area (adjusted to Chignik Lagoon date), 1996.

Date	Chignik Weir Escapement	Catch Areas ^{a,b,c,d}								Daily Total
		Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
26-May	7	0	0	0	0	0	0	0	0	7
27-May	125	0	0	0	0	0	0	0	0	125
28-May	229	0	0	0	0	0	0	0	0	229
29-May	403	0	0	0	0	0	0	0	0	403
30-May	255	0	0	0	0	0	0	0	0	255
31-May	1,113	0	0	0	0	0	0	0	0	1,113
1-Jun	3,424	0	0	0	0	0	0	0	0	3,424
2-Jun	5,036	0	0	0	0	0	0	0	0	5,036
3-Jun	6,655	0	0	0	0	0	0	0	0	6,655
4-Jun	5,399	0	0	0	0	0	0	0	0	5,399
5-Jun	8,825	659	0	0	0	0	0	0	0	9,484
6-Jun	6,076	0	0	0	0	0	0	0	0	6,076
7-Jun	9,863	0	0	0	0	0	0	0	0	9,863
8-Jun	18,867	1,117	0	0	0	0	0	0	0	19,984
9-Jun	19,681	0	0	0	0	0	0	0	0	19,681
10-Jun	6,866	21,609	0	0	0	0	0	0	0	28,475
11-Jun	6,315	21,896	292	0	0	0	0	0	0	28,503
12-Jun	4,734	27,518	2,595	406	0	0	0	0	0	35,253
13-Jun	2,626	32,693	6,627	0	4,583	0	0	0	0	46,529
14-Jun	2,260	37,601	8,540	2,370	4,120	0	0	0	0	54,891
15-Jun	3,936	26,464	11,933	2,481	241	0	0	0	0	45,055
16-Jun	24,807	1,785	10,806	4,853	2,684	0	0	3,569	0	48,504
17-Jun	57,114	23,908	0	4,226	6,815	21,602	0	0	11,505	125,170
18-Jun	6,297	70,661	4,911	0	8,291	35,228	0	0	11,776	137,164
19-Jun	7,175	42,721	27,674	0	0	30,666	0	0	0	108,236
20-Jun	15,147	45,925	42,034	15,001	0	7,317	0	0	0	125,424
21-Jun	43,979	756	33,859	10,623	30,876	0	0	0	0	120,093
22-Jun	22,573	35,501	0	11,983	4,936	0	0	0	0	74,993
23-Jun	3,629	44,457	5,547	0	10,259	0	0	0	14,978	78,870
24-Jun	5,875	18,501	21,473	3,537	0	0	0	0	18,647	68,033
25-Jun	31,022	0	17,075	3,386	0	66,164	0	0	16,051	133,698
26-Jun	47,056	0	0	4,872	5,662	60,806	0	0	9,683	128,079
27-Jun	10,679	45,280	0	0	13,786	76,607	0	0	0	146,352
28-Jun	4,311	27,575	24,916	0	0	5,719	0	0	0	62,521
29-Jun	7,491	18,008	33,240	13,755	0	1,136	0	0	0	73,630
30-Jun	8,682	23,976	16,356	25,873	7,116	0	0	0	0	82,003
1-Jul	6,671	23,349	7,834	20,946	8,834	0	0	0	0	67,634
2-Jul	3,286	26,349	12,081	8,483	22,986	0	0	0	0	73,185
3-Jul	1,999	24,879	14,845	15,559	1,518	0	0	0	0	58,800
4-Jul	5,920	20,422	18,242	15,636	0	0	0	0	0	60,220
5-Jul	5,925	13,632	25,181	18,451	0	0	0	0	0	63,189
6-Jul	3,384	17,323	18,737	12,691	0	0	0	0	0	52,135
7-Jul	1,805	16,905	26,742	8,641	0	0	0	0	0	54,093
8-Jul	2,044	13,176	12,814	7,344	0	0	0	0	0	35,378
9-Jul	5,159	15,137	7,499	5,710	0	0	0	0	0	33,505
10-Jul	8,577	0	10,340	6,489	0	0	0	0	0	25,406
11-Jul	19,372	0	0	4,546	0	0	0	0	445	24,363
12-Jul	10,777	19,885	0	0	0	0	0	0	0	30,662
13-Jul	1,113	16,992	7,732	0	0	0	0	0	0	25,837
14-Jul	1,492	11,229	11,997	405	0	0	0	6,202	0	31,325
15-Jul	1,908	9,848	14,061	3,844	0	0	0	10,276	0	39,937
16-Jul	11,618	0	5,512	3,377	0	0	0	0	0	20,507
17-Jul	19,720	0	0	702	0	0	0	0	11	20,433
18-Jul	14,049	12,746	0	0	0	0	0	0	0	26,795
19-Jul	4,393	18,119	0	0	0	0	0	0	0	22,512

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Table 22. (page 2 of 3)

Date	Chignik Weir Escapement	Catch Areas ^{a,b,c,d}								Daily Total
		Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
20-Jul	755	15,794	4,514	0	0	0	0	0	0	21,063
21-Jul	2,189	11,975	3,906	2,608	0	0	0	0	80	20,758
22-Jul	4,534	0	543	2,306	0	0	0	1,685	8,325	17,393
23-Jul	13,492	0	0	2,168	0	0	0	1,995	9,000	26,655
24-Jul	14,722	0	0	0	0	0	0	5,348	0	20,070
25-Jul	12,612	0	0	0	0	0	0	0	0	12,612
26-Jul	8,416	0	0	0	0	0	0	0	0	8,416
27-Jul	13,570	0	0	0	0	0	0	0	0	13,570
28-Jul	10,923	0	0	0	0	432	0	0	76	11,431
29-Jul	9,532	0	0	0	0	1,486	0	0	6,275	17,293
30-Jul	6,720	5,824	0	0	0	1,164	0	0	303	14,011
31-Jul	3,840	8,175	3,273	0	0	0	0	0	10,782	26,070
1-Aug	1,394	6,579	2,715	431	0	0	0	0	0	11,119
2-Aug	1,555	6,270	1,547	1,369	0	0	1,690	0	7,236	19,667
3-Aug	841	5,621	1,071	606	0	130	586	1,138	9,312	19,305
4-Aug	1,300	5,787	1,072	353	0	110	690	838	3,004	13,154
5-Aug	1,162	4,809	1,493	505	0	0	952	900	0	9,821
6-Aug	2,492	0	295	706	0	0	593	481	0	4,567
7-Aug	6,478	0	0	226	0	0	389	396	1,725	9,214
8-Aug	9,446	0	0	0	0	0	0	141	2,314	11,901
9-Aug	2,159	6,016	0	0	0	0	0	0	0	8,175
10-Aug	2,325	4,711	604	0	0	0	0	0	0	7,640
11-Aug	4,566	5,270	1,801	302	0	0	0	0	1,524	13,463
12-Aug	2,159	6,576	880	658	0	0	2,004	0	2,963	15,240
13-Aug	1,789	4,240	267	1,265	0	0	3,570	580	0	11,711
14-Aug	6,060	0	571	454	0	0	6,528	111	0	13,724
15-Aug	6,052	3,418	0	146	0	0	0	583	0	10,199
16-Aug	3,452	6,196	436	0	0	0	0	0	0	10,084
17-Aug	1,479	6,459	2,123	163	0	0	0	0	0	10,224
18-Aug	1,885	5,534	2,128	684	0	0	1,660	0	0	11,891
19-Aug	899	3,079	1,585	1,279	0	0	4,121	360	0	11,323
20-Aug	1,864	4,026	1,538	430	0	0	2,817	346	0	11,021
21-Aug	1,737	3,496	1,860	403	0	0	2,492	726	0	10,714
22-Aug	3,983	0	619	785	0	0	1,397	182	0	6,966
23-Aug	4,291	0	0	74	0	0	1,155	630	0	6,150
24-Aug	2,953	4,739	0	0	0	0	0	1,065	0	8,757
25-Aug	1,248	4,711	1,074	0	0	0	0	0	0	7,033
26-Aug	1,352	3,617	1,460	353	0	0	0	0	0	6,782
27-Aug	1,527	4,365	456	311	0	0	5,015	0	0	11,674
28-Aug	2,059	2,555	133	174	0	0	2,446	350	0	7,717
29-Aug	5,146	0	0	137	0	0	1,523	0	0	6,806
30-Aug	5,845	1,878	0	53	0	0	2,077	0	0	9,853
31-Aug	1,424	5,242	14	0	0	245	0	0	0	6,925
1-Sep	952	4,629	171	0	0	202	0	0	0	5,954
2-Sep	1,120	3,338	61	0	0	57	1,176	0	0	5,752
3-Sep	1,346	2,729	319	65	0	6	1,378	0	0	5,843
4-Sep	3,648	0	184	0	0	0	1,397	0	0	5,229
5-Sep	3,153	0	0	0	0	140	1,365	0	0	4,658
6-Sep	2,725	0	0	0	0	0	0	0	1,028	3,753
7-Sep	578	1,538	0	0	0	0	0	0	2,063	4,179
8-Sep	664	1,766	351	0	0	0	0	0	1,675	4,456
9-Sep	654	1,740	330	0	0	0	157	0	0	2,881
10-Sep	444	1,182	134	0	0	0	152	0	0	1,912
11-Sep	1,314	0	84	0	0	85	149	0	1,292	2,924
12-Sep	1,136	0	0	0	0	0	50	0	1,214	2,400
13-Sep	982	0	0	0	0	0	0	0	0	982

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Table 22. (page 3 of 3)

Date	Chignik Weir	Catch Areas ^{a,b,c,d}								Daily Total
	Escapement	Chignik Lagoon	Hook Bay /Kujulik	Aniakchak	Eastern District	Cape Igvak	Western District	Perryville District	Southeast Mainland	
14-Sep	142	377	0	0	0	241	0	0	0	760
15-Sep	141	375	0	0	0	0	0	0	887	1,403
16-Sep	167	445	40	0	0	0	0	0	1,473	2,125
17-Sep	0	0	228	0	0	0	0	0	846	1,074
18-Sep	0	0	0	0	0	0	0	0	676	676
21-Sep	0	0	0	0	0	0	0	0	104	104
22-Sep	0	0	0	0	0	0	0	0	1,155	1,155
23-Sep	0	0	0	0	0	0	0	0	322	322
24-Sep	0	0	0	0	0	0	0	0	1,010	1,010
25-Sep	0	0	0	0	0	0	0	0	153	153
28-Sep	0	0	0	0	0	0	0	0	24	24
29-Sep	0	0	0	0	0	0	0	0	454	454
30-Sep	0	0	0	0	0	0	0	0	146	146
1-Oct	0	0	0	0	0	0	0	0	1,240	1,240
2-Oct	0	0	0	0	0	0	0	0	377	377
6-Oct	0	0	0	0	0	0	0	0	492	492
7-Oct	0	0	0	0	0	0	0	0	103	103
9-Oct	0	0	0	0	0	0	0	0	98	98
14-Oct	0	0	0	0	0	0	0	0	324	324
16-Oct	0	0	0	0	0	0	0	0	94	94
22-Oct	0	0	0	0	0	0	0	0	9	9
Total	749,137	1,003,683	501,375	255,204	132,707	309,543	47,529	17,855	183,321	3,200,354

^a The catch date and the escapement date past the weir for sockeye salmon was adjusted by travel time to the Chignik Lagoon date. Travel time from Cape Igvak and Southeastern District Mainland to Chignik Lagoon was assigned 5 days, travel time from the Eastern and Perryville Districts to Chignik Lagoon was assigned 3 days, travel time from the Western and Aniakchak Districts to Chignik Lagoon was assigned 2 days, travel time from Hook Bay and Kujulik to Chignik Lagoon was assigned 1 day, and travel time from Chignik Lagoon to the Chignik weir as escapement was assigned a -1 day.

^b Does not include catch designated for personal or subsistence use.

^c Includes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^d Includes sockeye salmon from the test fishery in Chignik Lagoon.

Table 23. Daily and cumulative sockeye salmon escapement and catch as determined by postseason scale pattern analysis for the Black Lake stock (adjusted to Chignik Lagoon date, see Table 22 footnote^a), 1996.

Date	Escapement Counts	Catch ^{a,b,c}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
26-May	7	0	7	7	0.0
27-May	121	0	121	128	0.0
28-May	220	0	220	348	0.0
29-May	383	0	383	731	0.0
30-May	241	0	241	972	0.0
31-May	1,041	0	1,041	2,013	0.0
1-Jun	3,175	0	3,175	5,188	0.2
2-Jun	4,628	0	4,628	9,816	0.5
3-Jun	6,062	0	6,062	15,878	0.7
4-Jun	4,875	0	4,875	20,753	1.0
5-Jun	7,896	590	8,486	29,239	1.3
6-Jun	5,375	0	5,375	34,614	1.6
7-Jun	8,619	0	8,619	43,233	2.0
8-Jun	16,270	963	17,233	60,466	2.8
9-Jun	17,059	0	17,059	77,525	3.6
10-Jun	5,980	18,820	24,800	102,325	4.7
11-Jun	5,525	19,411	24,936	127,261	5.9
12-Jun	4,159	26,811	30,970	158,231	7.3
13-Jun	2,316	38,719	41,035	199,266	9.2
14-Jun	2,001	46,583	48,584	247,850	11.4
15-Jun	3,480	36,353	39,833	287,683	13.3
16-Jun	21,907	20,927	42,834	330,517	15.2
17-Jun	50,381	60,033	110,414	440,931	20.3
18-Jun	5,549	115,309	120,858	561,789	25.9
19-Jun	6,315	88,946	95,261	657,050	30.3
20-Jun	13,316	96,948	110,264	767,314	35.4
21-Jun	38,620	66,838	105,458	872,772	40.2
22-Jun	19,649	45,632	65,281	938,053	43.2
23-Jun	3,136	65,020	68,156	1,006,209	46.4
24-Jun	5,047	53,399	58,446	1,064,655	49.1
25-Jun	26,533	87,819	114,352	1,179,007	54.3
26-Jun	40,127	69,092	109,219	1,288,226	59.4
27-Jun	9,092	115,517	124,609	1,412,835	65.1
28-Jun	3,670	49,556	53,226	1,466,061	67.5
29-Jun	6,146	54,261	60,407	1,526,468	70.3
30-Jun	6,852	57,869	64,721	1,591,189	73.3
1-Jul	5,056	46,202	51,258	1,642,447	75.7
2-Jul	2,386	50,766	53,152	1,695,599	78.1
3-Jul	1,433	40,707	42,140	1,737,739	80.1
4-Jul	4,189	38,420	42,609	1,780,348	82.0
5-Jul	4,141	40,022	44,163	1,824,511	84.1
6-Jul	2,324	33,491	35,815	1,860,326	85.7
7-Jul	1,220	35,360	36,580	1,896,906	87.4
8-Jul	1,387	22,624	24,011	1,920,917	88.5
9-Jul	3,519	19,331	22,850	1,943,767	89.6
10-Jul	5,885	11,546	17,431	1,961,198	90.4
11-Jul	13,386	3,449	16,835	1,978,033	91.1
12-Jul	7,510	13,856	21,366	1,999,399	92.1
13-Jul	742	16,482	17,224	2,016,623	92.9
14-Jul	952	19,037	19,989	2,036,612	93.8
15-Jul	1,214	24,191	25,405	2,062,017	95.0

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Table 23. (page 2 of 2)

Date	Escapement Counts	Catch ^{a,b,c}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
16-Jul	7,365	5,635	13,000	2,075,017	95.6
17-Jul	12,453	450	12,903	2,087,920	96.2
18-Jul	8,835	8,016	16,851	2,104,771	97.0
19-Jul	2,477	10,214	12,691	2,117,462	97.6
20-Jul	375	10,108	10,483	2,127,945	98.0
21-Jul	943	7,998	8,941	2,136,886	98.5
22-Jul	1,767	5009	6,776	2,143,662	98.8
23-Jul	4,695	4,581	9,276	2,152,938	99.2
24-Jul	4,505	1,637	6,142	2,159,080	99.5
25-Jul	3325	0	3,325	2,162,405	99.6
26-Jul	1,859	0	1,859	2,164,264	99.7
27-Jul	2,410	0	2,410	2,166,674	99.8
28-Jul	1,463	68	1,531	2,168,205	99.9
29-Jul	856	697	1,553	2,169,758	100.0
30-Jul	304	329	633	2,170,391	100.0

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 24. Daily and cumulative sockeye salmon escapement and catch as determined by postseason scale pattern analysis for the Chignik Lake stock (adjusted to Chignik Lagoon date, see Table 22 footnote ^a), 1996.

Date	Escapement Counts	Catch ^{a,b,c}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
26-May	0	0	0	0	0.0
27-May	4	0	4	4	0.0
28-May	9	0	9	13	0.0
29-May	20	0	20	33	0.0
30-May	14	0	14	47	0.0
31-May	72	0	72	119	0.0
1-Jun	249	0	249	368	0.0
2-Jun	408	0	408	776	0.0
3-Jun	593	0	593	1,369	0.1
4-Jun	524	0	524	1,893	0.2
5-Jun	929	69	998	2,891	0.3
6-Jun	701	0	701	3,592	0.3
7-Jun	1,244	0	1,244	4,836	0.5
8-Jun	2,597	154	2,751	7,587	0.7
9-Jun	2,622	0	2,622	10,209	1.0
10-Jun	886	2,789	3,675	13,884	1.3
11-Jun	790	2,777	3,567	17,451	1.7
12-Jun	575	3,708	4,283	21,734	2.1
13-Jun	310	5,184	5,494	27,228	2.6
14-Jun	259	6,048	6,307	33,535	3.3
15-Jun	456	4,766	5,222	38,757	3.8
16-Jun	2,900	2,770	5,670	44,427	4.3
17-Jun	6,733	8,023	14,756	59,183	5.7
18-Jun	748	15,558	16,306	75,489	7.3
19-Jun	860	12,115	12,975	88,464	8.6
20-Jun	1,831	13,329	15,160	103,624	10.1
21-Jun	5,359	9,276	14,635	118,259	11.5
22-Jun	2,924	6,788	9,712	127,971	12.4
23-Jun	493	10,221	10,714	138,685	13.5
24-Jun	828	8,759	9,587	148,272	14.4
25-Jun	4,489	14,857	19,346	167,618	16.3
26-Jun	6,929	11,931	18,860	186,478	18.1
27-Jun	1,587	20,156	21,743	208,221	20.2
28-Jun	641	8,654	9,295	217,516	21.1
29-Jun	1,345	11,878	13,223	230,739	22.4
30-Jun	1,830	15,452	17,282	248,021	24.1
1-Jul	1,615	14,761	16,376	264,397	25.7
2-Jul	900	19,133	20,033	284,430	27.6
3-Jul	566	16,094	16,660	301,090	29.2
4-Jul	1,731	15,880	17,611	318,701	30.9
5-Jul	1,784	17,242	19,026	337,727	32.8
6-Jul	1,060	15,260	16,320	354,047	34.4
7-Jul	585	16,928	17,513	371,560	36.1
8-Jul	657	10,710	11,367	382,927	37.2
9-Jul	1,640	9,015	10,655	393,582	38.2
10-Jul	2,692	5,283	7,975	401,557	39.0

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Table 24. (page 2 of 3)

Date	Escapement Counts	Catch ^{a,b,c}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
11-Jul	5,986	1,542	7,528	409,085	39.7
12-Jul	3,267	6,029	9,296	418,381	40.6
13-Jul	371	8,242	8,613	426,994	41.5
14-Jul	540	10,796	11,336	438,330	42.6
15-Jul	694	13,838	14,532	452,862	44.0
16-Jul	4,253	3,254	7,507	460,369	44.7
17-Jul	7,267	263	7,530	467,899	45.4
18-Jul	5,214	4,730	9,944	477,843	46.4
19-Jul	1,916	7,905	9,821	487,664	47.3
20-Jul	380	10,200	10,580	498,244	48.4
21-Jul	1,246	10,571	11,817	510,061	49.5
22-Jul	2,767	7,850	10,617	520,678	50.6
23-Jul	8,797	8,582	17,379	538,057	52.2
24-Jul	10,217	3,711	13,928	551,985	53.6
25-Jul	9,287	0	9,287	561,272	54.5
26-Jul	6,557	0	6,557	567,829	55.1
27-Jul	11,160	0	11,160	578,989	56.2
28-Jul	9,460	440	9,900	588,889	57.2
29-Jul	8,676	7,064	15,740	604,629	58.7
30-Jul	6,416	6,962	13,378	618,007	60.0
31-Jul	3,840	22,230	26,070	644,077	62.5
1-Aug	1,394	9,725	11,119	655,196	63.6
2-Aug	1,555	18,112	19,667	674,863	65.5
3-Aug	841	18,464	19,305	694,168	67.4
4-Aug	1,300	11,854	13,154	707,322	68.7
5-Aug	1,162	8,659	9,821	717,143	69.6
6-Aug	2,492	2,075	4,567	721,710	70.1
7-Aug	6,478	2,736	9,214	730,924	71.0
8-Aug	9,446	2,455	11,901	742,825	72.1
9-Aug	2,159	6,016	8,175	751,000	72.9
10-Aug	2,325	5,315	7,640	758,640	73.7
11-Aug	4,566	8,897	13,463	772,103	75.0
12-Aug	2,159	13,081	15,240	787,343	76.4
13-Aug	1,789	9,922	11,711	799,054	77.6
14-Aug	6,060	7,664	13,724	812,778	78.9
15-Aug	6,052	4,147	10,199	822,977	79.9
16-Aug	3,452	6,632	10,084	833,061	80.9
17-Aug	1,479	8,745	10,224	843,285	81.9
18-Aug	1,885	10,006	11,891	855,176	83.0
19-Aug	899	10,424	11,323	866,499	84.1
20-Aug	1,864	9,157	11,021	877,520	85.2
21-Aug	1,737	8,977	10,714	888,234	86.2
22-Aug	3,983	2,983	6,966	895,200	86.9
23-Aug	4,291	1,859	6,150	901,350	87.5
24-Aug	2,953	5,804	8,757	910,107	88.4
25-Aug	1,248	5,785	7,033	917,140	89.0
26-Aug	1,352	5,430	6,782	923,922	89.7

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Table 24. (page 3 of 3)

Date	Escapement Counts	Catch ^{a,b,c}	Daily Total	Cumulative Catch and Escapement	Cumulative Percent
27-Aug	1,527	10,147	11,674	935,596	90.8
28-Aug	2,059	5,658	7,717	943,313	91.6
29-Aug	5,146	1,660	6,806	950,119	92.2
30-Aug	5,845	4,008	9,853	959,972	93.2
31-Aug	1,424	5,501	6,925	966,897	93.9
1-Sep	952	5,002	5,954	972,851	94.5
2-Sep	1,120	4,632	5,752	978,603	95.0
3-Sep	1,346	4,497	5,843	984,446	95.6
4-Sep	3,648	1,581	5,229	989,675	96.1
5-Sep	3,153	1,505	4,658	994,333	96.5
6-Sep	2,725	1,028	3,753	998,086	96.9
7-Sep	578	3,601	4,179	1,002,265	97.3
8-Sep	664	3,792	4,456	1,006,721	97.7
9-Sep	654	2,227	2,881	1,009,602	98.0
10-Sep	444	1,468	1,912	1,011,514	98.2
11-Sep	1,314	1,610	2,924	1,014,438	98.5
12-Sep	1,136	1,264	2,400	1,016,838	98.7
13-Sep	982	0	982	1,017,820	98.8
14-Sep	142	618	760	1,018,580	98.9
15-Sep	141	1,262	1,403	1,019,983	99.0
16-Sep	167	1,958	2,125	1,022,108	99.2
17-Sep	0	1,074	1,074	1,023,182	99.3
18-Sep	0	676	676	1,023,858	99.4
21-Sep	0	104	104	1,023,962	99.4
22-Sep	0	1,155	1,155	1,025,117	99.5
23-Sep	0	322	322	1,025,439	99.6
24-Sep	0	1,010	1,010	1,026,449	99.7
25-Sep	0	153	153	1,026,602	99.7
28-Sep	0	24	24	1,026,626	99.7
29-Sep	0	454	454	1,027,080	99.7
30-Sep	0	146	146	1,027,226	99.7
1-Oct	0	1,240	1,240	1,028,466	99.9
2-Oct	0	377	377	1,028,843	99.9
6-Oct	0	492	492	1,029,335	99.9
7-Oct	0	103	103	1,029,438	99.9
9-Oct	0	98	98	1,029,536	100.0
14-Oct	0	324	324	1,029,860	100.0
16-Oct	0	94	94	1,029,954	100.0
22-Oct	0	9	9	1,029,963	100.0

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 25. Black Lake weekly sockeye salmon escapement, by age class, estimated by postseason scale pattern analysis, 1996.

Statistical Week	Age Class													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
22 Number	0	0	119	12	0	503	4	2	330	0	0	0	2	972
Percent	0.0	0.0	12.2	1.2	0.0	51.7	0.4	0.2	34.0	0.0	0.0	0.0	0.2	
23 Number	0	0	3,954	414	0	17,318	130	65	11,106	0	0	3	62	33,052
Percent	0.0	0.0	12.0	1.3	0.0	52.4	0.4	0.2	33.6	0.0	0.0	0.0	0.2	
24 Number	45	0	4,529	1,374	0	37,337	247	135	16,104	0	0	129	28	59,928
Percent	0.1	0.0	7.6	2.3	0.0	62.3	0.4	0.2	26.9	0.0	0.0	0.2	0.0	
25 Number	298	0	7,469	2,629	94	70,962	966	392	19,831	0	0	204	102	102,947
Percent	0.3	0.0	7.3	2.6	0.1	68.9	0.9	0.4	19.3	0.0	0.0	0.2	0.1	
26 Number	168	0	8,426	3,820	168	88,031	2,191	449	38,390	0	0	562	0	142,205
Percent	0.1	0.0	5.9	2.7	0.1	61.9	1.5	0.3	27.0	0.0	0.0	0.4	0.0	
27 Number	26	0	1,232	655	7	14,817	687	25	11,963	0	13	308	0	29,733
Percent	0.1	0.0	4.1	2.2	0.0	49.8	2.3	0.1	40.2	0.0	0.0	1.0	0.0	
28 Number	0	0	541	749	77	12,338	1,254	42	15,852	0	118	893	0	31,864
Percent	0.0	0.0	1.7	2.4	0.2	38.7	3.9	0.1	49.7	0.0	0.4	2.8	0.0	
29 Number	0	0	348	785	99	10,384	2,769	66	23,084	0	174	1,344	18	39,071
Percent	0.0	0.0	0.9	2.0	0.3	26.6	7.1	0.2	59.1	0.0	0.4	3.4	0.0	
30 Number	0	32	108	469	205	3,483	1,720	77	10,765	8	98	1,114	8	18,087
Percent	0.0	0.2	0.6	2.6	1.1	19.3	9.5	0.4	59.5	0.0	0.5	6.2	0.0	
31 Number	0	14	43	171	186	1,072	850	17	3,815	9	63	642	9	6,891
Percent	0.0	0.2	0.6	2.5	2.7	15.6	12.3	0.2	55.4	0.1	0.9	9.3	0.1	
Total	537	46	26,769	11,078	836	256,245	10,818	1,270	151,240	17	466	5,199	229	464,750
Percent	0.1	0.0	5.8	2.4	0.2	55.1	2.3	0.3	32.5	0.0	0.1	1.1	0.0	

Table 26. Chignik Lake weekly sockeye salmon escapement, by age class, estimated by postseason scale pattern analysis, 1996.

Statistical Week	Age Class													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
22 Number	0	0	6	1	0	24	0	0	16	0	0	0	0	47
Percent	0.0	0.0	12.8	2.1	0.0	51.1	0.0	0.0	34.0	0.0	0.0	0.0	0.0	
23 Number	0	0	414	44	0	1,826	14	7	1,165	0	0	0	6	3,476
Percent	0.0	0.0	11.9	1.3	0.0	52.5	0.4	0.2	33.5	0.0	0.0	0.0	0.2	
24 Number	6	0	681	207	0	5,621	37	20	2,429	0	0	19	4	9,024
Percent	0.1	0.0	7.5	2.3	0.0	62.3	0.4	0.2	26.9	0.0	0.0	0.2	0.0	
25 Number	40	0	1,000	353	13	9,504	130	53	2,655	0	0	27	14	13,789
Percent	0.3	0.0	7.3	2.6	0.1	68.9	0.9	0.4	19.3	0.0	0.0	0.2	0.1	
26 Number	25	0	1,320	599	25	13,857	351	70	6,265	0	0	96	0	22,608
Percent	0.1	0.0	5.8	2.6	0.1	61.3	1.6	0.3	27.7	0.0	0.0	0.4	0.0	
27 Number	8	0	355	190	3	4,307	201	6	3,463	0	5	89	0	8,627
Percent	0.1	0.0	4.1	2.2	0.0	49.9	2.3	0.1	40.1	0.0	0.1	1.0	0.0	
28 Number	0	0	243	339	35	5,572	569	20	7,165	0	54	405	0	14,402
Percent	0.0	0.0	1.7	2.4	0.2	38.7	4.0	0.1	49.8	0.0	0.4	2.8	0.0	
29 Number	0	0	183	426	53	5,675	1,551	38	12,834	0	98	738	10	21,606
Percent	0.0	0.0	0.8	2.0	0.2	26.3	7.2	0.2	59.4	0.0	0.5	3.4	0.0	
30 Number	0	65	205	915	452	6,462	3,400	146	20,439	18	205	2,285	18	34,610
Percent	0.0	0.2	0.6	2.6	1.3	18.7	9.8	0.4	59.1	0.1	0.6	6.6	0.1	
31 Number	0	100	299	1,149	1,450	7,024	6,165	91	25,864	69	477	4,747	69	47,504
Percent	0.0	0.2	0.6	2.4	3.1	14.8	13.0	0.2	54.4	0.1	1.0	10.0	0.1	
32 Number	0	28	105	321	916	2,195	3,343	0	12,566	28	508	3,236	28	23,274
Percent	0.0	0.1	0.5	1.4	3.9	9.4	14.4	0.0	54.0	0.1	2.2	13.9	0.1	

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Table 26. (page 2 of 2)

Statistical Week	Age Class													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
33 Number	0	5	74	167	770	1,700	3,463	30	14,213	5	712	3,966	5	25,110
Percent	0.0	0.0	0.3	0.7	3.1	6.8	13.8	0.1	56.6	0.0	2.8	15.8	0.0	
34 Number	0	0	46	101	187	780	2,530	66	8,113	10	332	3,115	19	15,299
Percent	0.0	0.0	0.3	0.7	1.2	5.1	16.5	0.4	53.0	0.1	2.2	20.4	0.1	
35 Number	0	0	6	69	152	747	4,800	10	8,050	138	454	4,099	51	18,576
Percent	0.0	0.0	0.0	0.4	0.8	4.0	25.8	0.1	43.3	0.7	2.4	22.1	0.3	
36 Number	0	0	0	71	107	570	5,592	0	6,802	214	499	3,597	36	17,488
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.9	1.2	2.9	20.6	0.2	
37 Number	0	0	0	31	46	245	2,403	0	2,923	92	214	1,546	15	7,515
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.9	1.2	2.8	20.6	0.2	
41 Number	0	0	0	6	9	47	458	0	556	17	41	295	3	1,432
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.8	1.2	2.9	20.6	0.2	
Total	79	198	4,937	4,989	4,218	66,156	35,007	557	135,518	591	3,599	28,260	278	284,387
Percent	0.0	0.1	1.7	1.8	1.5	23.3	12.3	0.2	47.7	0.2	1.3	9.9	0.1	

Table 27. Black Lake weekly sockeye salmon catch, by age class, estimated by postseason scale pattern analysis, 1996.

Statistical Week	Age Class ^{a,b,c}													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
23 Number	0	0	72	7	0	307	2	1	200	0	0	0	1	590
Percent	0.0	0.0	12.2	1.2	0.0	52.0	0.3	0.2	33.9	0.0	0.0	0.0	0.2	
24 Number	243	0	7,678	2,276	0	68,402	509	315	24,865	0	0	315	121	104,724
Percent	0.2	0.0	7.3	2.2	0.0	65.3	0.5	0.3	23.7	0.0	0.0	0.3	0.1	
25 Number	1,287	0	33,681	12,287	496	321,666	4,658	1,783	88,054	0	0	791	396	465,099
Percent	0.3	0.0	7.2	2.6	0.1	69.2	1.0	0.4	18.9	0.0	0.0	0.2	0.1	
26 Number	511	0	28,510	12,993	511	302,324	7,916	1,503	146,637	0	0	2,412	0	503,317
Percent	0.1	0.0	5.7	2.6	0.1	60.1	1.6	0.3	29.1	0.0	0.0	0.5	0.0	
27 Number	322	0	14,023	7,531	78	168,547	8,004	256	135,341	0	157	3,522	0	337,781
Percent	0.1	0.0	4.2	2.2	0.0	49.9	2.4	0.1	40.1	0.0	0.0	1.0	0.0	
28 Number	0	0	3,051	3,361	205	72,483	4,483	348	77,736	0	794	3,362	0	165,823
Percent	0.0	0.0	1.8	2.0	0.1	43.7	2.7	0.2	46.9	0.0	0.5	2.0	0.0	
29 Number	0	0	870	2,127	227	24,105	5,854	135	49,769	0	669	3,813	98	87,667
Percent	0.0	0.0	1.0	2.4	0.3	27.5	6.7	0.2	56.8	0.0	0.8	4.3	0.1	
30 Number	0	56	235	979	203	8,376	3,314	179	24,202	4	150	1,845	4	39,547
Percent	0.0	0.1	0.6	2.5	0.5	21.2	8.4	0.5	61.2	0.0	0.4	4.7	0.0	
31 Number	0	2	7	26	37	154	149	2	585	2	12	116	2	1,094
Percent	0.0	0.2	0.6	2.4	3.4	14.1	13.6	0.2	53.5	0.2	1.1	10.6	0.2	
Total	2,363	58	88,127	41,587	1,757	966,364	34,889	4,522	547,389	6	1,782	16,176	622	1,705,642
Percent	0.1	0.0	5.2	2.4	0.1	56.7	2.0	0.3	32.1	0.0	0.1	0.9	0.0	

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 28. Chignik Lake weekly sockeye salmon catch, by age class, estimated by postseason scale pattern analysis, 1996.

Statistical Week	Age Class ^{a,b,c}													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
23 Number	0	0	8	1	0	37	0	0	23	0	0	0	0	69
Percent	0.0	0.0	11.6	1.4	0.0	53.6	0.0	0.0	33.3	0.0	0.0	0.0	0.0	
24 Number	33	0	1,071	318	0	9,537	71	44	3,477	0	0	44	17	14,612
Percent	0.2	0.0	7.3	2.2	0.0	65.3	0.5	0.3	23.8	0.0	0.0	0.3	0.1	
25 Number	173	0	4,533	1,658	67	43,310	630	240	11,840	0	0	105	53	62,609
Percent	0.3	0.0	7.2	2.6	0.1	69.2	1.0	0.4	18.9	0.0	0.0	0.2	0.1	
26 Number	80	0	4,590	2,095	80	48,866	1,296	241	24,329	0	0	410	0	81,987
Percent	0.1	0.0	5.6	2.6	0.1	59.6	1.6	0.3	29.7	0.0	0.0	0.5	0.0	
27 Number	109	0	4,209	2,285	32	50,934	2,460	57	40,637	0	64	1,065	0	101,852
Percent	0.1	0.0	4.1	2.2	0.0	50.0	2.4	0.1	39.9	0.0	0.1	1.0	0.0	
28 Number	0	0	1,373	1,554	92	33,123	2,088	163	35,661	0	366	1,560	0	75,980
Percent	0.0	0.0	1.8	2.0	0.1	43.6	2.7	0.2	46.9	0.0	0.5	2.1	0.0	
29 Number	0	0	452	1,135	118	12,845	3,181	76	26,863	0	370	2,057	55	47,152
Percent	0.0	0.0	1.0	2.4	0.3	27.2	6.7	0.2	57.0	0.0	0.8	4.4	0.1	
30 Number	0	77	288	1,253	303	10,080	4,189	229	29,728	7	202	2,456	7	48,819
Percent	0.0	0.2	0.6	2.6	0.6	20.6	8.6	0.5	60.9	0.0	0.4	5.0	0.0	
31 Number	0	101	302	1,057	1,829	5,983	6,767	31	24,189	90	563	5,419	90	46,421
Percent	0.0	0.2	0.7	2.3	3.9	12.9	14.6	0.1	52.1	0.2	1.2	11.7	0.2	
32 Number	0	111	362	1,167	2,692	6,903	9,601	0	33,695	111	1,112	8,490	111	64,355
Percent	0.0	0.2	0.6	1.8	4.2	10.7	14.9	0.0	52.4	0.2	1.7	13.2	0.2	
33 Number	0	13	152	357	1,835	3,870	7,465	26	31,226	13	1,601	8,471	13	55,042
Percent	0.0	0.0	0.3	0.6	3.3	7.0	13.6	0.0	56.7	0.0	2.9	15.4	0.0	

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Table 28. (page 2 of 2)

Statistical Week	Age Class ^{a,b,c}													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
34 Number	0	0	187	403	660	2,885	9,340	275	30,410	29	1,231	11,446	58	56,924
Percent	0.0	0.0	0.3	0.7	1.2	5.1	16.4	0.5	53.4	0.1	2.2	20.1	0.1	
35 Number	0	0	5	130	283	1,406	9,854	8	15,354	306	914	7,984	99	36,343
Percent	0.0	0.0	0.0	0.4	0.8	3.9	27.1	0.0	42.2	0.8	2.5	22.0	0.3	
36 Number	0	0	0	109	163	871	8,546	0	10,396	327	762	5,498	54	26,726
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.9	1.2	2.9	20.6	0.2	
37 Number	0	0	0	61	92	488	4,793	0	5,832	183	427	3,083	31	14,990
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.9	1.2	2.8	20.6	0.2	
41 Number	0	0	0	48	71	381	3,739	0	4,549	143	333	2,405	24	11,693
Percent	0.0	0.0	0.0	0.4	0.6	3.3	32.0	0.0	38.9	1.2	2.8	20.6	0.2	
Total	395	302	17,532	13,631	8,317	231,519	74,020	1,390	328,209	1,209	7,945	60,493	612	745,574
Percent	0.1	0.0	2.4	1.8	1.1	31.1	9.9	0.2	44.0	0.2	1.1	8.1	0.1	

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 29. Black Lake and Chignik Lake sockeye salmon escapement, catch, and total run estimates, by age class, based on scale pattern analysis, 1996.

	Age Class ^{a,b,c}													Total
	0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other	
Black Lake														
Escapement	537	46	26,769	11,078	836	256,245	10,818	1,270	151,240	17	466	5,199	229	464,750
Catch	2,363	58	88,127	41,587	1,757	966,364	34,889	4,522	547,389	6	1,782	16,176	622	1,705,642
Run	2,900	104	114,896	52,665	2,593	1,222,609	45,707	5,792	698,629	23	2,248	21,375	851	2,170,392
Percent	0.1	0.0	5.3	2.4	0.1	56.3	2.1	0.3	32.2	0.0	0.1	1.0	0.0	100.0
Chignik Lake														
Escapement	79	198	4,937	4,989	4,218	66,156	35,007	557	135,518	591	3,599	28,260	278	284,387
Catch	395	302	17,532	13,631	8,317	231,519	74,020	1,390	328,210	1,209	7,945	60,493	612	745,575
Run	474	500	22,469	18,620	12,535	297,675	109,027	1,947	463,728	1,800	11,544	88,753	890	1,029,962
Percent	0.0	0.0	2.2	1.8	1.2	28.9	10.6	0.2	45.0	0.2	1.1	8.6	0.1	100.0
Total Run														
Escapement	616	244	31,706	16,067	5,054	322,401	45,825	1,827	286,758	608	4,065	33,459	507	749,137
Catch	2,758	360	105,659	55,218	10,074	1,197,883	108,909	5,912	875,599	1,215	9,727	76,669	1,234	2,451,217
Run	3,374	604	137,365	71,285	15,128	1,520,284	154,734	7,739	1,162,357	1,823	13,792	110,128	1,741	3,200,354
Percent	0.1	0.0	4.3	2.2	0.5	47.5	4.8	0.2	36.3	0.1	0.4	3.4	0.1	100.0

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 30. Sockeye salmon escapement, catch, and total run for Black Lake, Chignik Lake, and combined runs, based on postseason scale pattern analysis, 1954-1996.

Escapement and Catch ^{a,b,c}									
Year	Black Lake			Chignik Lake			Combined		
	Escapement	Catch	Total	Escapement	Catch	Total	Escapement	Catch	Total
1954	184,953	72,334	257,287	277,912	19,232	297,144	462,865	91,566	554,431
1955	256,757	179,539	436,296	201,409	168,987	370,396	458,166	348,526	806,692
1956	289,096	246,442	535,538	483,024	421,251	904,275	772,120	667,693	1,439,813
1957	192,479	77,423	269,902	328,779	224,757	553,536	521,258	302,180	823,438
1958	120,862	141,180	262,042	212,594	179,949	392,543	333,456	321,129	654,585
1959	112,226	165,000	277,226	308,645	251,547	560,192	420,871	416,547	837,418
1960	251,567	274,048	525,615	357,230	418,356	775,586	608,797	692,404	1,301,201
1961	140,714	53,852	194,566	254,970	278,609	533,579	395,684	332,461	728,145
1962	167,602	71,562	239,164	324,860	292,528	617,388	492,462	364,090	856,552
1963	332,536	80,258	412,794	200,314	323,080	523,394	532,850	403,338	936,188
1964	137,073	142,380	279,453	166,625	472,510	639,135	303,698	614,890	918,588
1965	307,192	497,018	804,210	163,151	169,576	332,727	470,343	666,594	1,136,937
1966	383,545	87,169	470,714	183,525	162,638	346,163	567,070	249,807	816,877
1967	328,000	154,134	482,134	189,000	350,901	539,901	517,000	505,035	1,022,035
1968	342,343	542,598	884,941	244,836	641,693	886,529	587,179	1,184,291	1,771,470
1969	366,589	263,170	629,759	132,055	235,960	368,015	498,644	499,130	997,774
1970	536,257	1,566,065	2,102,322	119,952	262,244	382,196	656,209	1,828,309	2,484,518
1971	671,668	555,832	1,227,500	232,501	709,190	941,691	904,169	1,265,022	2,169,191
1972	326,320	43,220	369,540	231,270	386,615	617,885	557,590	429,835	987,425
1973	533,047	569,854	1,102,901	247,144	396,114	643,258	780,191	965,968	1,746,159
1974	351,701	174,883	526,584	364,612	675,607	1,040,219	716,313	850,490	1,566,803
1975	308,914	4,019	312,933	314,084	421,414	735,498	622,998	425,433	1,048,431
1976	551,254	548,107	1,099,361	341,828	778,380	1,120,208	893,082	1,326,487	2,219,569
1977	482,247	439,693	921,940	463,561	1,696,767	2,160,328	945,808	2,136,460	3,082,268
1978	458,660	1,070,487	1,529,147	263,009	754,838	1,017,847	721,669	1,825,325	2,546,994
1979	385,694	207,122	592,816	317,889	944,964	1,262,853	703,583	1,152,086	1,855,669
1980	311,332	170,629	481,961	279,729	778,014	1,057,743	591,061	948,643	1,539,704
1981	438,540	779,755	1,218,295	301,092	1,509,959	1,811,051	739,632	2,289,714	3,029,346
1982	616,117	1,325,041	1,941,158	305,193	451,789	756,982	921,310	1,776,830	2,698,140
1983	426,177	977,548	1,403,725	441,561	1,467,060	1,908,621	867,738	2,444,608	3,312,346
1984	597,712	3,245,482	3,843,194	268,496	353,141	621,637	866,208	3,598,623	4,464,831
1985	377,516	650,340	1,027,856	369,262	490,151	859,413	746,778	1,140,491	1,887,269
1986	566,088	1,371,935	1,938,023	207,231	609,084	816,315	773,319	1,981,019	2,754,338
1987	589,291	1,949,867	2,539,158	214,452	482,311	696,763	803,743	2,432,178	3,235,921
1988	420,577	272,553	693,130	255,180	631,172	886,352	675,757	903,725	1,579,482
1989	384,004	234,839	618,843	557,171	1,063,042	1,620,213	941,175	1,297,881	2,239,056
1990	434,543	587,818	1,022,361	335,867	1,856,597	2,192,464	770,410	2,444,415	3,214,825
1991	657,511	1,714,835	2,372,346	382,587	751,291	1,133,878	1,040,098	2,466,126	3,506,224
1992	360,681	747,829	1,108,510	405,922	863,651	1,269,573	766,603	1,611,480	2,378,083
1993	364,263	926,863	1,291,126	333,114	1,322,984	1,656,098	697,377	2,249,847	2,947,224
1994	769,464	1,595,256	2,364,720	197,445	508,109	705,554	966,909	2,103,365	3,070,274
1995	366,163	660,282	1,026,445	373,757	1,526,122	1,899,879	739,920	2,186,404	2,926,324
1996	464,750	1,705,642	2,170,392	284,387	745,575	1,029,962	749,137	2,451,217	3,200,354
Average									
87-96	481,125	1,039,578	1,520,703	333,988	975,085	1,309,074	815,113	2,014,664	2,829,777
77-86	466,008	1,023,803	1,489,812	321,702	905,577	1,227,279	787,711	1,929,380	2,717,091
67-76	431,609	442,188	873,798	241,728	485,812	727,540	673,338	928,000	1,601,338

^aIncludes 80% of the catches for the entire season from Cape Igvak and Southeastern District Mainland.

^bIncludes catches from the Chignik Lagoon test fishery.

^cDoes not include catch designated for personal use or subsistence.

Table 31. Black Lake and Black River tributaries peak aerial sockeye salmon survey escapement estimates, 1960-1996.

Year	Black Lake ^a							Black River				Chignik Lake		
	Fan Creek	Milk Creek	Boulevard Creek	Alec River	Conglomerate	Broad Creek	Total	Bearskin Creek	West Fork	Chiaktuak Creek	Total	Clark River	Home Creek	Hatchery Beach
1960	38,500	8,000	40,000	30,000	3,000	30,000	149,500	11,600	23,000	19,000	53,600			
1961	27,000	5,000	28,700	25,000	800	17,000	103,500	2,500	17,100	20,700	40,300			
1962	18,000	7,000	13,000	60,000	200	15,000	113,200	3,000	13,000	24,000	40,000			
1963	39,000	-	36,000	85,000	1,000	61,000	222,000	900	5,000	9,000	14,900			
1964	19,500	3,050	23,850	17,900	9,300	9,500	83,100	500	4,500	7,000	12,000			
1967	20,000	1,000	9,000	156,000	10,000	10,000	206,000	10,000	25,000	31,000	66,000			
1968	32,000	2,400	20,000	60,000	2,000	4,100	120,500	1,200	10,500	10,000	21,700			
1969	103,000	2,100	33,000	50,000	4,000	5,000	197,100	50	800	1,500	2,350			
1970	146,000	9,000	55,500	198,000	5,000	-	413,500	450	4,000	4,000	8,450			
1971	105,000	14,000	85,000	158,000	0	-	362,000	3,500	5,500	47,000	56,000			
1972	18,000	3,500	19,000	74,000	400	-	114,900	1,400	4,300	23,000	28,700			
1973	115,000	4,000	76,000	74,000	5,000	-	274,000	13	4,100	1,500	5,613			
1974	90,000	5,000	50,000	93,000	5,000	-	243,000	450	8,000	7,000	15,450			
1975	40,000	4,500	25,000	87,000	0	-	156,500	65	2,500	2,500	5,065			
1976	78,000	8,900	100,000	119,000	2,000	-	307,900	2,650	23,700	7,700	34,050			
1977	88,000	20,000	127,000	133,000	1,000	-	369,000	200	13,600	6,900	20,700			
1978	114,000	3,300	74,000	83,300	500	-	275,100	410	9,600	8,500	18,510			
1979	37,000	11,800	32,000	105,100	400	26,100	212,400	918	7,610	29,000	37,528			
1980	127,000	16,000	75,000	70,500	1,500	68,000	358,000	3,600	33,000	40,400	77,000			
1981	93,000	4,700	59,000	76,500	20,000	27,000	280,200	950	1,500	18,700	21,150			
1982	50,000	5,500	60,000	43,000	20,000	32,000	210,500	1,066	10,791	5,000	16,857			
1983	-	-	-	-	-	-	-	-	-	6,000	6,000			
1984	50,000	22,200	70,000	30,500	31,000	36,000	239,700	-	-	-	8,200			
1985	28,000	5,500	36,000	65,000	5,500	17,000	157,000	350	450	1,200	2,000			
1986	60,000	15,300	47,000	76,000	39,000	27,000	264,300	-	-	8,300	8,300			
1987	52,000	12,200	133,000	88,400	45,900	32,500	364,000	-	-	1,000	1,000			
1988	54,000	71,000	83,700	106,500	2,300	26,500	344,000	-	-	4,600	4,600			
1989	19,300	21,000	64,000	133,000	1,000	7,500	245,800	-	-	2,100	2,100			
1990	32,600	7,400	35,900	49,800	2,200	18,000	145,900	300	0	50	350			
1991	14,600	19,500	48,000	-	2,000	13,000	97,100	-	-	-	-			
1992 ^b	-	-	-	392,000	-	-	-	-	-	-	-			
1993	40,900	12,600	97,600	8,000	77,000	18,200	254,300	-	-	16,000	16,000			
1994	70,000	25,000	125,000	350,000	20,000	51,000	641,000	5,000	-	31,000	36,000	18,000	9,200	-
1995	23,000	10,000	60,000	200,000	40,000	60,000	393,000	7,100	18,000	31,000	56,100	13,000	6,000	150,000
1996	40,000	24,000	80,000	100,000	50,000	45,000	339,000	1,800	22,000	22,000	45,800	13,000	5,500	70,000

^a Dashes or blanks represent no surveys taken or survey results not adequate to make stream estimate.

^b Survey considered incomplete for all streams except the Alec River.

Table 32. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Bay District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	36.7	30.0	66.7	1980	180.9	3.0	183.9
1963	63.7	20.7	84.4	1981	121.4	1.4	122.8
1964	123.6	20.0	143.6	1982	83.0	2.4	85.4
1965	31.5	11.0	42.5	1983	27.3	1.0	28.3
1966	18.3	71.3	89.6	1984	165.2	123.2	288.4
1967	27.4	5.7	33.1	1985	14.4	0.0	14.4
1968	230.2	81.4	311.6	1986	191.3	0.0	191.3
1969	29.5	11.7	41.2	1987	13.9	0.0	13.9
1970	46.3	43.6	89.9	1988	119.8	22.4	142.2
1971	65.3	5.5	70.8	1989	27.7	13.5	41.2
1972	31.6	5.8	37.4	1990	94.5	6.0	100.5
1973	22.7	2.2	24.9	1991	76.2	12.2	88.4
1974	33.5	4.0	37.5	1992	178.2	55.8	234.0
1975	27.4	1.2	28.6	1993	55.9	2.0	57.9
1976	108.8	12.3	121.1	1994	59.4	75.8	135.2
1977	60.9	3.0	63.9	1995	106.9	180.5	287.4
1978	137.1	10.7	147.8	1996	1.5	43.1	44.6
1979	312.4	1.2	313.6				

Table 33. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Central District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	84.3	83.9	168.2	1980	108.7	99.4	208.1
1963	121.3	92.6	213.9	1981	210.0	76.5	286.5
1964	71.9	131.1	203.0	1982	80.6	26.1	106.7
1965	69.5	65.8	135.3	1983	7.9	11.0	18.9
1966	17.4	62.6	80.0	1984	47.3	94.0	141.3
1967	26.0	18.5	44.5	1985	16.1	7.4	23.5
1968	45.4	66.1	111.5	1986	44.1	121.9	166.0
1969	1.4	69.6	71.0	1987	7.8	65.7	73.5
1970	27.9	60.7	88.6	1988	318.4	216.4	534.8
1971	20.5	74.8	95.3	1989	0.0	215.0	215.0
1972	0.8	3.1	3.9	1990	233.7	131.9	365.6
1973	0.3	50.2	50.5	1991	174.0	201.1	375.1
1974	22.1	9.8	31.9	1992	205.7	223.8	429.5
1975	31.3	26.4	57.7	1993	198.5	160.9	359.4
1976	16.6	66.0	82.6	1994	99.1	178.9	278.0
1977	120.0	199.9	319.9	1995	469.7	715.5	1185.2
1978	61.2	101.2	162.4	1996	15.8	237.1	252.9
1979	284.4	297.0	581.4				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 34. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Eastern District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	1109.9	401.7	1511.6	1980	472.5	425.5	
1963	26.9	126.2	153.1	1981	173.3	154.7	898.0
1964	1251.5	605.7	1857.2	1982	89.1	301.5	328.0
1965	25.7	64.8	90.5	1983	7.8	46.3	390.6
1966	386.2	302.2	688.4	1984	57.7	486.5	54.1
1967	22.6	56.1	78.7	1985	6.6	212.1	544.2
1968	523.4	390.3	913.7	1986	49.6	580.7	218.7
1969	1.7	46.0	47.7	1987	2.1	215.6	630.3
1970	268.9	201.7	470.6	1988	1006.4	1005.4	217.7
1971	29.0	23.0	52.0	1989	0.0	881.0	2011.8
1972	12.9	15.9	28.8	1990	40.6	811.4	881.0
1973	2.5	12.8	15.3	1991	28.0	125.0	852.0
1974	0.6	76.2	76.8	1992	183.1	1318.1	153.0
1975	0.0	23.5	23.5	1993	59.3	524.7	1501.2
1976	28.8	228.8	257.6	1994	13.0	863.3	584.0
1977	0.2	76.0	76.2	1995	8.6	1399.3	876.3
1978	86.8	309.3	396.1	1996	7.2	1059.6	1407.9
1979	292.4	194.3	486.7				

Table 35. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Western District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	81.0	242.0	323.0	1980	216.5	139.5	356.0
1963	516.9	305.0	821.9	1981	433.6	249.3	682.9
1964	112.9	165.0	277.9	1982	602.4	45.9	648.3
1965	345.6	152.0	497.6	1983	164.3	36.0	200.3
1966	173.2	179.3	352.5	1984	173.8	188.0	361.8
1967	27.1	104.4	131.5	1985	80.6	67.5	148.1
1968	295.6	151.3	446.9	1986	200.8	43.8	244.6
1969	485.0	422.0	907.0	1987	187.7	38.3	226.0
1970	442.7	202.0	644.7	1988	1141.4	232.4	1373.8
1971	285.4	268.8	554.2	1989	0.0	57.9	57.9
1972	14.9	8.6	23.5	1990	135.8	44.3	180.1
1973	0.0	62.4	62.4	1991	419.3	96.8	516.1
1974	13.4	77.4	90.8	1992	628.9	38.8	667.7
1975	7.4	141.7	149.1	1993	685.6	45.8	731.4
1976	135.8	114.2	250.0	1994	174.6	111.6	286.2
1977	379.0	355.5	734.5	1995	791.7	554.7	1346.4
1978	419.3	333.4	752.7	1996	100.9	220.8	321.7
1979	744.6	185.0	929.6				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 36. Pink salmon catch, escapement, and run numbers (in thousands of fish) in the Perryville District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	207.4	155.5	362.9	1980	114.6	74.8	189.4
1963	933.6	162.0	1095.6	1981	224.3	116.0	340.3
1964	122.6	72.0	194.6	1982	18.3	13.4	31.7
1965	644.8	82.0	726.8	1983	113.9	64.5	178.4
1966	88.2	90.0	178.2	1984	0.8	109.8	110.6
1967	5.2	155.3	160.5	1985	42.5	235.2	277.7
1968	196.1	128.7	324.8	1986	161.3	180.5	341.8
1969	1262.2	218.6	1480.8	1987	35.3	65.7	101.0
1970	371.4	72.6	444.0	1988	411.2	181.3	592.5
1971	212.1	45.0	257.1	1989	0.0	267.4	267.4
1972	12.0	7.8	19.8	1990	45.4	88.4	133.8
1973	0.0	31.5	31.5	1991	471.9	343.5	815.4
1974	0.0	60.2	60.2	1992	358.2	190.4	548.6
1975	0.0	45.3	45.3	1993	649.1	448.4	1097.5
1976	105.2	89.3	194.5	1994	84.9	153.9	238.8
1977	44.6	115.4	160.0	1995	681.0	582.1	1263.1
1978	280.8	157.5	438.3	1996	58.5	395.7	454.2
1979	271.4	181.3	452.7				

Table 37. Total pink salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Management Area, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	1519.3	913.1	2432.4	1980	1093.2	742.2	1835.4
1963	1662.4	706.5	2368.9	1981	1162.6	597.9	1760.5
1964	1682.5	993.8	2676.3	1982	873.4	389.3	1262.7
1965	1117.1	375.6	1492.7	1983	321.2	158.8	480.0
1966	683.3	705.4	1388.7	1984	444.8	1001.5	1446.3
1967	108.3	340.0	448.3	1985	160.1	522.2	682.3
1968	1290.7	817.8	2108.5	1986	647.1	926.9	1574.0
1969	1779.8	767.9	2547.7	1987	246.8	385.3	632.1
1970	1157.2	580.6	1737.8	1988	2997.2	1657.9	4655.1
1971	612.3	417.1	1029.4	1989	27.7	1434.8	1462.5
1972	72.2	41.2	113.4	1990	550.0	1082.0	1632.0
1973	25.5	159.1	184.6	1991	1169.2	778.6	1947.8
1974	69.6	227.6	297.2	1992	1554.1	1826.9	3381.0
1975	66.2	238.1	304.3	1993	1648.4	1181.8	2830.2
1976	395.3	510.6	905.9	1994	431.1	1383.5	1814.6
1977	604.8	749.8	1354.6	1995	2058.0	3432.0	5490.0
1978	985.1	912.1	1897.3	1996	183.8	1956.4	2140.2
1979	1905.2	858.8	2764.0				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 38. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Bay District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	5.2	6.7	11.9	1980	19.9	0.3	20.2
1963	5.3	0.8	6.1	1981	38.1	0.5	38.6
1964	8.5	2.5	11.0	1982	16.0	1.4	17.4
1965	1.2	3.0	4.2	1983	16.7	0.1	16.8
1966	6.6	4.5	11.1	1984	8.2	0.3	8.5
1967	5.9	4.0	9.9	1985	4.9	0.0	4.9
1968	5.4	1.0	6.4	1986	18.2	0.0	18.2
1969	2.9	1.5	4.4	1987	5.2	0.1	5.3
1970	1.7	21.0	22.7	1988	7.0	15.3	22.3
1971	19.4	7.1	26.5	1989	1.6	4.2	5.8
1972	18.2	3.3	21.5	1990	11.5	1.5	13.0
1973	7.3	0.7	8.0	1991	17.5	0.0	17.5
1974	17.3	2.1	19.4	1992	12.7	0.1	12.8
1975	21.2	2.1	23.3	1993	8.1	0.3	8.4
1976	19.2	2.4	21.6	1994	25.3	1.5	26.8
1977	8.6	2.0	10.6	1995	14.6	10.3	24.9
1978	15.0	2.1	17.1	1996	0.6	16.4	17.0
1979	32.2	1.6	33.8				

Table 39. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Central District, 1962-1996

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	132.0	40.4	172.4	1980	38.9	34.2	73.1
1963	23.1	34.0	57.1	1981	160.7	26.1	186.8
1964	50.3	24.2	74.5	1982	33.7	49.4	83.1
1965	37.8	19.2	57.0	1983	9.8	17.0	26.8
1966	20.9	10.0	30.9	1984	8.2	35.4	43.6
1967	9.9	17.2	27.1	1985	5.2	9.6	14.8
1968	4.2	14.5	18.7	1986	29.5	31.0	60.5
1969	3.2	6.5	9.7	1987	9.4	17.5	26.9
1970	28.6	23.4	52.0	1988	39.3	55.8	95.1
1971	13.7	29.1	42.9	1989	0.0	34.7	34.7
1972	1.6	14.2	15.8	1990	113.7	28.0	141.7
1973	0.2	12.2	14.4	1991	51.4	18.0	69.4
1974	13.5	18.1	31.6	1992	45.5	173.1	218.6
1975	3.2	18.8	22.0	1993	43.0	39.4	82.4
1976	3.4	17.8	21.2	1994	69.6	102.6	172.2
1977	8.9	9.3	18.2	1995	107.1	44.5	151.6
1978	10.3	13.8	24.1	1996	26.1	45.1	71.2
1979	11.4	44.8	56.2				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 40. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Eastern District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	74.7	79.6	154.3	1980	56.8	107.0	163.8
1963	20.5	55.2	75.7	1981	108.7	126.0	234.7
1964	242.7	165.4	408.1	1982	64.5	145.4	209.9
1965	32.4	58.0	90.4	1983	8.3	50.2	58.5
1966	130.1	58.0	188.1	1984	21.1	214.7	235.8
1967	24.4	89.8	114.2	1985	0.9	4.9	5.8
1968	110.1	63.0	173.1	1986	17.9	8.5	26.4
1969	3.7	66.5	70.2	1987	8.9	38.3	47.2
1970	241.1	126.0	367.1	1988	77.5	221.9	299.4
1971	102.3	219.2	321.5	1989	0.0	74.3	74.3
1972	27.7	107.4	135.1	1990	27.5	139.7	167.2
1973	1.2	59.1	60.3	1991	4.9	70.4	75.3
1974	0.3	76.3	76.5	1992	61.2	306.9	368.1
1975	0.0	41.3	41.3	1993	21.4	135.2	156.6
1976	10.0	122.3	132.3	1994	4.3	129.2	133.5
1977	1.5	54.5	56.0	1995	8.0	112.8	120.8
1978	17.5	55.8	73.3	1996	19.7	130.5	150.2
1979	36.1	79.5	115.6				

Table 41. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Western District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	134.4	83.1	217.5	1980	91.9	56.5	148.4
1963	44.7	10.0	54.7	1981	221.6	70.3	291.9
1964	21.2	37.0	58.2	1982	253.3	35.4	288.7
1965	36.4	25.0	61.4	1983	102.0	20.1	122.1
1966	73.8	12.0	85.8	1984	25.4	73.8	99.2
1967	33.6	24.0	57.6	1985	10.7	34.6	45.3
1968	90.1	9.6	99.7	1986	74.1	5.3	79.4
1969	36.8	27.6	64.4	1987	86.9	19.7	106.6
1970	139.6	49.7	189.3	1988	102.7	27.4	130.1
1971	177.5	184.1	361.6	1989	0.0	7.4	7.4
1972	18.5	59.0	77.5	1990	91.6	28.8	120.4
1973	0.0	35.6	35.6	1991	98.6	38.1	136.7
1974	3.2	39.4	42.6	1992	65.5	53.3	118.8
1975	0.8	43.4	44.2	1993	25.0	14.0	39.0
1976	33.1	55.0	88.1	1994	94.1	23.0	117.1
1977	88.0	70.4	158.4	1995	158.3	45.7	204.0
1978	46.0	27.3	73.3	1996	36.3	44.5	80.8
1979	82.3	42.5	124.8				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 42. Chum salmon catch, escapement, and run numbers (in thousands of fish) in the Perryville District, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	17.9	10.5	28.4	1980	45.0	29.1	74.1
1963	19.1	7.0	26.1	1981	51.3	19.3	70.6
1964	10.6	26.0	36.6	1982	22.6	23.6	46.2
1965	12.8	7.0	19.8	1983	22.6	8.2	30.8
1966	7.9	20.4	28.3	1984	0.5	46.0	46.5
1967	1.7	5.7	7.4	1985	1.1	12.9	14.0
1968	14.0	1.8	15.8	1986	37.0	7.7	44.7
1969	21.1	1.0	22.1	1987	16.9	9.8	26.7
1970	26.3	13.0	39.3	1988	41.2	41.4	82.6
1971	40.9	30.0	70.9	1989	0.0	15.9	15.9
1972	12.3	11.5	23.8	1990	25.7	55.8	81.5
1973	0.0	9.3	9.3	1991	88.6	343.2	431.8
1974	0.0	12.5	12.5	1992	37.2	40.3	77.5
1975	0.0	20.5	20.5	1993	24.7	66.8	91.5
1976	15.7	8.9	24.6	1994	34.0	126.0	160.0
1977	3.4	15.4	18.8	1995	93.0	134.6	227.6
1978	32.1	5.3	37.4	1996	17.0	132.0	149.0
1979	26.9	12.8	39.7				

Table 43. Total chum salmon catch, escapement, and run numbers (in thousands of fish) in the Chignik Management Area, 1962-1996.

Year	Catch ^{a,b}	Escapement ^c	Run	Year	Catch ^{a,b}	Escapement ^c	Run
1962	364.2	220.3	584.5	1980	252.5	227.1	479.6
1963	112.7	107.0	219.7	1981	580.4	242.2	822.6
1964	333.3	255.1	588.4	1982	390.1	255.2	645.3
1965	120.6	112.2	232.8	1983	159.4	95.6	255.0
1966	239.3	104.9	344.2	1984	63.4	370.2	433.6
1967	75.5	140.7	216.2	1985	22.8	62.0	84.8
1968	223.8	89.9	313.7	1986	176.7	52.5	229.2
1969	67.7	103.1	170.8	1987	127.3	85.4	212.7
1970	437.3	233.1	670.4	1988	267.7	361.8	629.5
1971	353.8	469.5	823.3	1989	1.6	136.5	138.1
1972	78.3	195.4	273.7	1990	270.0	253.8	523.8
1973	8.7	116.9	125.6	1991	261.0	469.7	730.7
1974	34.3	148.4	182.7	1992	222.1	573.7	795.8
1975	25.2	126.1	151.3	1993	122.4	255.7	378.1
1976	81.4	206.4	287.8	1994	227.3	382.4	609.7
1977	110.4	151.6	262.0	1995	380.9	347.8	728.7
1978	120.9	104.3	225.2	1996	99.8	368.5	468.3
1979	188.9	181.2	370.1				

^a Catches (1970-1996) were updated using historical electronic fish ticket databases.

^b Personal use or other subsistence fish are not included.

^c Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was the assumed last day of stream entry.

Table 44. Pink salmon return per spawner in the Central and Eastern Districts, 1962-1996.

Even Year Cycle ^{a,b,c}				Odd Year Cycle ^{a,b,c}			
Brood Year	Pink Escapement	Return 2-yrs Later	Return/ Spawner	Brood Year	Pink Escapement	Return 2-yrs Later	Return/ Spawner
1962	485,600	2,060,200	4.2	1963	218,800	225,800	1.0
1964	736,800	768,400	1.0	1965	130,600	123,200	0.9
1966	364,800	1,025,200	2.8	1967	74,600	118,700	1.6
1968	456,400	559,800	1.2	1969	115,600	147,300	1.3
1970	262,400	32,700	0.1	1971	97,800	65,800	0.7
1972	19,000	108,700	5.7	1973	63,000	81,200	1.3
1974	86,000	340,200	4.0	1975	49,900	396,100	7.9
1976	294,800	558,500	1.9	1977	275,900	1,068,100	3.8
1978	410,500	1,106,100	2.7	1979	491,300	614,500	1.3
1980	524,900	497,300	0.9	1981	231,200	73,000	0.3
1982	327,600	685,500	2.1	1983	57,300	242,200	4.2
1984	580,500	796,300	1.4	1985	219,500	291,200	1.3
1986	702,600	2,546,600	3.6	1987	281,300	1,096,000	3.9
1988	1,221,800	1,217,600	1.0	1989	1,096,000	528,100	0.5
1990	943,300	1,930,700	2.0	1991	326,100	943,400	2.9
1992	1,541,900	1,153,400	0.8	1993	685,600	2,593,100	3.8
1994	1,042,200	1,319,700	1.3	1995	2,114,800		
1996	1,296,700						

Table 45. Pink salmon return per spawner in the Western and Perryville Districts, 1962-1996.^{a,b,c}

Even Year Cycle ^{a,b,c}				Odd Year Cycle ^{a,b,c}			
Brood Year	Pink Escapement	Return 2-yrs Later	Return/ Spawner	Brood Year	Pink Escapement	Return 2-yrs Later	Return/ Spawner
1962	397,500	472,500	1.2	1963	467,000	1,225,400	2.6
1964	237,000	530,700	2.2	1965	234,600	292,000	1.2
1966	269,300	771,700	2.9	1967	259,700	2,387,800	9.2
1968	280,000	1,088,700	3.9	1969	640,600	811,300	1.3
1970	274,600	43,300	0.2	1971	313,800	93,900	0.3
1972	16,400	151,000	9.2	1973	93,900	194,400	2.1
1974	137,600	444,500	3.2	1975	187,000	894,500	4.8
1976	203,500	1,191,000	5.9	1977	470,900	1,382,300	2.9
1978	490,900	545,400	1.1	1979	366,300	1,023,200	2.8
1980	214,300	680,000	3.2	1981	365,300	378,700	1.0
1982	59,300	472,400	8.0	1983	100,500	425,800	4.2
1984	297,800	586,400	2.0	1985	302,700	327,000	1.1
1986	224,300	1,966,300	8.8	1987	104,000	325,300	3.1
1988	413,700	313,900	0.8	1989	325,300	1,331,500	4.1
1990	132,700	1,216,300	9.2	1991	440,300	1,828,800	4.2
1992	229,200	524,900	2.3	1993	494,200	2,609,500	5.3
1994	265,500	775,800	2.9	1995	1,136,700		
1996	616,500						

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 15 was assumed to be last day for stream entry.

^b Catches (1970-1996) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 46. Chum salmon return per spawner in the Central and Eastern Districts, 1962-1996.

Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner	Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner
1962	120,000	219,000	1.8				
1963	89,200	141,300	1.6	1980	141,200	279,400	2.0
1964	189,600	191,800	1.0	1981	152,100	20,600	0.1
1965	77,200	79,900	1.0	1982	194,800	86,900	0.4
1966	68,000	149,400	2.2	1983	67,200	74,100	1.1
1967	107,000	364,400	3.4	1984	250,100	194,500	0.8
1968	77,500	150,900	2.0	1985	14,500	109,000	7.5
1969	73,000	72,700	1.0	1986	39,500	308,900	7.8
1970	149,400	108,700	0.7	1987	55,800	144,700	2.6
1971	248,300	63,300	0.3	1988	277,700	586,700	2.1
1972	121,600	153,500	1.3	1989	109,000	239,000	2.2
1973	71,300	74,200	1.0	1990	167,700	305,700	1.8
1974	94,400	97,400	1.0	1991	88,400	272,400	3.1
1975	60,100	171,800	2.9	1992	480,000	202,300	0.4
1976	140,100	236,900	1.7	1993	174,600		
1977	63,800	421,500	6.6	1994	231,800		
1978	69,600	293,000	4.2	1995	157,200		
1979	124,300	85,300	0.7	1996	175,400		

Table 47. Chum salmon return per spawner in the Western and Perryville Districts, 1962-1996.

Even Year Cycle				Odd Year Cycle			
Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner	Brood ^{a,b,c} Year	Chum Escapement	Return 4-yrs Later	Return/ Spawner
1962	93,600	114,100	1.2	1980	85,600	145,700	1.7
1963	17,000	65,000	3.8	1981	89,600	59,300	0.7
1964	63,000	115,500	1.8	1982	59,000	124,100	2.1
1965	32,000	86,500	2.7	1983	28,300	133,300	4.7
1966	32,400	228,600	7.1	1984	119,800	212,700	1.8
1967	29,700	432,500	14.6	1985	47,500	23,300	0.5
1968	11,400	101,300	8.9	1986	13,000	201,900	15.5
1969	28,600	44,900	1.6	1987	29,500	568,500	19.3
1970	62,700	55,100	0.9	1988	68,800	196,300	2.9
1971	214,100	64,700	0.3	1989	23,300	130,600	5.6
1972	70,500	112,700	1.6	1990	84,600	277,100	3.3
1973	44,900	177,200	3.9	1991	381,300	431,500	1.1
1974	51,900	110,700	2.1	1992	93,600	229,800	2.5
1975	63,900	164,500	2.6	1993	80,800		
1976	63,900	222,500	3.5	1994	149,000		
1977	85,800	362,500	4.2	1995	180,300		
1978	32,600	334,900	10.3	1996	176,500		
1979	55,300	152,900	2.8				

^a Post 1984 escapement estimates computed by area-under-the-curve methodology using a 15.0 day average stream life (Johnson and Barrett, 1988). September 10 was assumed to be last day for stream entry.

^b Catches (1970-1995) were updated using historical electronic fish ticket databases.

^c Personal use or other subsistence fish are not included.

Table 48. Sockeye, coho, pink, and chum salmon aerial stream survey counts in the Chignik Management Area, 1996.

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Boulevard Creek, 271-083	08/13/1996	David Owen	Stream	G	80,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Black Lake, 271-084	08/13/1996	David Owen	Stream	G	51,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Alec River, 271-085	08/13/1996	David Owen	Stream	G	100,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Broad Creek, 271-087	08/13/1996	David Owen	Stream	G	45,000				
			Mouth	G					
			Bay	G					
Conglomerate Creek, 271-088	08/13/1996	David Owen	Stream	G	50,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Cathedral Creek, 271-089	08/13/1996	David Owen	Stream	G	1,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Milk Creek, 271-090	08/13/1996	David Owen	Stream	G	24,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Fan Creek, 271-091	08/13/1996	David Owen	Stream	G	40,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Chiaktuak Creek, 271-092	08/09/1996	Dave Sarafin	Stream	F	5,500	0	0	0	
			Mouth	F	2,000	0	0	0	
			Bay	F	0	0	0	0	

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Table 48. (page 2 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/29/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	30,000	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996		Stream	G	22,000	0	0	0	
		David Owen	Mouth	G	10,000	0	0	0	
			Bay	G	0	0	0	0	
Cucumber Creek, 271-093	08/17/1996		Stream	F	0	0	0	0	
		David Owen	Mouth	F	5,000	0	0	0	
			Bay	F	0	0	0	0	
	08/28/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	2,500	0	0	0	
			Bay	G	10,000	0	0	0	
	09/07/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	10,000	0	0	0	
			Bay	G	2,000	0	0	0	
West Fork River, 271-094	08/13/1996		Stream	G	1,100	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996		Stream	G	22,000	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Bearskin Creek, 271-095	08/09/1996		Stream	F	1,800	0	0	0	
		Dave Sarafin	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	09/07/1996		Stream	G	1,200	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Hatchery Beach, 271-096	08/17/1996		Stream	F	0	0	0	0	TURBID POOR VISIBILITY BUT OUTLINE OF SCHOOLS PRESENT.
		David Owen	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	

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Table 48. (page 3 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/28/1996	David Owen	Stream	G	27,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/29/1996	David Owen	Stream	G	50,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996	David Owen	Stream	G	70,000	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Clark River, 271-097	08/15/1996	David Owen	Stream	F	200	0	0	0	
			Mouth	F	50,000	0	0	0	
			Bay	F	0	0	0	0	
	08/17/1996	David Owen	Stream	F	200	0	0	0	
			Mouth	F	50,000	0	0	0	
			Bay	F	0	0	0	0	
	08/28/1996	David Owen	Stream	G	13,000	0	0	0	
			Mouth	G	20,000	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996	David Owen	Stream	G	13,000	0	0	0	
			Mouth	G	50,000	0	0	0	
			Bay	G	0	0	0	0	
Home Creek, 271-099	08/17/1996	David Owen	Stream	F	0	0	0	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	4,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996	David Owen	Stream	G	5,500	0	0	0	
			Mouth	G	7,500	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 4 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Lake Bay Creek, 271-101B									
	08/08/1996		Stream	G	0	0	5,000	500	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/17/1996		Stream	G	0	0	1,000	0	
		David Owen	Mouth	G	0	0	0	5,000	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	P	0	0	0	0	
		David Owen	Mouth	P	0	0	10,000	0	
			Bay	P	0	0	2,000	0	
Mallard Duck Creek, 271-102									
	08/15/1996		Stream	F	0	0	400	100	
		David Owen	Mouth	F	0	0	300	0	
			Bay	F	0	0	0	0	
	08/24/1996		Stream	E	0	0	2,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996		Stream	G	0	0	3,000	1,000	
		David Owen	Mouth	G	0	0	0	2,000	
			Bay	G	0	0	0	0	
	09/07/1996		Stream	G	0	1,000	3,000	5,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	2,000	
Marshiniak Creek, 271-102A									
	08/15/1996		Stream	F	0	0	0	0	
		David Owen	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/24/1996		Stream	G	0	0	100	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/07/1996		Stream	G	0	0	0	100	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 5 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Mud Bay, 271-102C									
	08/08/1996	David Owen	Stream	G	800	0	100	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/17/1996	David Owen	Stream	F	1,000	0	0	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/24/1996	David Owen	Stream	P	1,000				
			Mouth	P					
			Bay	P					
Metrofania Creek, 271-103									
	08/08/1996	David Owen	Stream	P	0	0	200	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	F	0	0	1,000	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
Alfred Creek, 271-104									
	07/29/1996	David Owen	Stream	G	0	0	100	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996	David Owen	Stream	G	0	0	200	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/15/1996	David Owen	Stream	F	0	0	2,000	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 6 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	09/01/1996	Dave Sarafin	Stream	E	0	0	800	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Through Creek, 271-106	07/29/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	2,000	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	5,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	8,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	5,000	2,500	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Jack Creek, 272-100	08/08/1996	David Owen	Stream	G	0	0	50	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/17/1996	David Owen	Stream	G	0	0	500	1,000	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	0	700	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
Chignik Bay, 272-201	08/15/1996	David Owen	Stream	G	0	0	2,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 7 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/24/1996	David Owen	Stream	G	0	0	500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	100	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Chignik Bay, 272-202A									
	07/29/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	2,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	1,500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	1,800	200	
			Mouth	E	0	50	0	0	
			Bay	G	0	0	0	0	
Neketa Creek, 272-202B									
	07/29/1996	David Owen	Stream	G	0	0	1,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 8 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	09/01/1996		Stream	E	0	0	200	70	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Thompson Creek, 272-204	07/29/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996		Stream	P	0	0	0	0	
		David Owen	Mouth	P	0	0	1,000	0	
			Bay	P	0	0	0	0	
	08/15/1996		Stream	G	0	0	24,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	G	0	0	19,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996		Stream	E	0	300	20,000	6,000	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Mckinsey Creek, 272-205	07/29/1996		Stream	G	0	0	22,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996		Stream	P	0	0	18,000	0	
		David Owen	Mouth	P	0	0	300	0	
			Bay	P	0	0	0	0	
	08/15/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 9 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
09/01/1996 Dave Sarafin	Stream	E	0	0	0	0			
	Mouth	E	0	0	0	0			
	Bay	G	0	0	0	0			
Dry Creek, 272-206 07/29/1996 David Owen	Stream	G	0	0	200	0			
	Mouth	G	0	0	0	0			
	Bay	G	0	0	0	0			
08/08/1996 David Owen	Stream	P	0	0	0	0	MOUTH ONLY SURVEY		
	Mouth	P	0	0	0	0			
	Bay	P	0	0	0	0			
08/15/1996 David Owen	Stream	G	0	0	3,000	0			
	Mouth	G	0	0	0	0			
	Bay	G	0	0	0	0			
08/24/1996 David Owen	Stream	G	0	0	2,000	0			
	Mouth	G	0	0	0	0			
	Bay	G	0	0	0	0			
09/01/1996 Dave Sarafin	Stream	E	0	0	5,000	1,500			
	Mouth	E	0	0	0	0			
	Bay	E	0	0	0	0			
Hook Creek, 272-302 07/26/1996 David Owen	Stream	P	0	0	0	50			
	Mouth	P	0	0	0	0			
	Bay	P	0	0	0	0			
08/13/1996 David Owen	Stream	G	0	0	13,000	0			
	Mouth	G	0	0	0	0			
	Bay	G	0	0	0	0			
08/24/1996 David Owen	Stream	G	0	0	19,000	0			
	Mouth	G	0	0	0	0			
	Bay	G	0	0	0	0			
09/01/1996 Dave Sarafin	Stream	E	300	3,000	25,000	2,000			
	Mouth	E	0	0	0	0			
	Bay	E	0	0	0	0			

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Table 48. (page 10 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Kumlium Creek, 272-501									
	07/26/1996	David Owen	Stream	P	0	0	50	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	5,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	2,000	0	
			Mouth	G	0	0	500	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	1,500	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
, 272-502									
	08/24/1996	David Owen	Stream	G	0	0	10	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
, 272-502A									
	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	50	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Kujulik Bay, 272-504									
	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	

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Table 48. (page 11 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/13/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Bear Creek, 272-505	07/26/1996	David Owen	Stream	P	0	0	0	3,000	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	9,000	
	08/13/1996	David Owen	Stream	G	0	0	0	4,000	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	200	0	
			Mouth	G	0	0	100	0	
			Bay	G	0	0	0	100	
	09/01/1996	Dave Sarafin	Stream	E	0	0	200	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Packer's Creek, 272-506	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	2,000	
			Bay	P	0	0	0	6,000	
	08/13/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 12 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	09/01/1996		Stream	E	0	0	0	0	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996		Stream	E	0	0	0	0	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Kujulik Bay, 272-507	07/26/1996		Stream	P	0	0	0	200	
		David Owen	Mouth	P	0	0	0	1,000	
			Bay	P	0	0	0	0	
	08/13/1996		Stream	G	0	0	0	2,000	
		David Owen	Mouth	G	0	0	0	1,000	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	E	0	0	0	500	
		David Owen	Mouth	E	0	0	0	500	
			Bay	E	0	0	0	0	
	09/01/1996		Stream	E	0	0	0	0	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Kujulik Bay, 272-508	07/26/1996		Stream	P	0	0	0	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996		Stream	G	0	0	0	3,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	G	0	0	1,000	4,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996		Stream	E	0	0	0	0	
		Dave Sarafin	Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 13 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Rudy's Creek, 272-509									
	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	50	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	13,000	4,000	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	15,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	2,500	1,300	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
, 272-510									
	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	3,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	2,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	500	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
Kujulik Bay, 272-511A									
	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 14 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	09/01/1996	Dave Sarafin	Stream	E	0	0	1,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Kujulik Bay, 272-511B	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	50	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Kujulik Bay, 272-512	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	1,000	
			Bay	E	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	G	0	0	0	0	
North Fork River, 272-514	07/26/1996	David Owen	Stream	P	0	0	0	2,000	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	22,000	200	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 15 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/24/1996	David Owen	Stream	E	0	0	21,000	0	11,000 FRESH PINKS
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	800	40,000	9,000	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
New Creek, 272-516	07/26/1996	David Owen	Stream	P	0	0	0	50	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	8,000	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	3,000	0	
	08/24/1996	David Owen	Stream	G	1	0	6,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	09/01/1996	Dave Sarafin	Stream	E	0	0	2,000	500	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Wolverine Creek, 272-602	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	500	
			Bay	P	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	11,000	0	
			Mouth	G	0	500	0	0	
			Bay	G	0	0	0	0	
Village Creek, 272-603	07/26/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	7,000	0	
			Mouth	G	0	0	2,000	0	
			Bay	G	0	0	0	0	

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Table 48. (page 16 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Black Creek, 272-604									
	07/26/1996		Stream	P	0	0	0	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	3,000	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	G	0	0	200	0	
		David Owen	Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
Aniakchak River, 272-605									
	07/17/1996		Stream	E	700	0	0	15,000	
		David Owen	Mouth	E	0	0	0	500	
			Bay	E	0	0	0	5,000	
	07/26/1996		Stream	P	1,500	0	0	50,000	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/13/1996		Stream	G	800	0	125,000	0	N. FORK 63,000; A. JOHNSON 12,000 MYSTERY 5,000
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	E	0	0	89,000	0	N.FORK=40,000 A.JOHNSON=4,000 MYSTERY=1
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Fred Gungus, 272-606									
	07/30/1996		Stream	E	0	0	37,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	25,000	0	
		David Owen	Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	E	0	0	30,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 17 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
West Creek, 272-701									
	07/30/1996		Stream	E	0	0	2,000	0	
		David Owen	Mouth	E	0	0	7,000	1,000	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	13,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	E	0	0	13,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/30/1996		Stream	G	0	0	7,000	500	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Main Creek, 272-702									
	07/30/1996		Stream	E	0	0	27,000	5,000	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	3,000	0	37,000	0	
		David Owen	Mouth	G		0	0	0	
			Bay	G	0	0	0	0	
	08/24/1996		Stream	E	1,000	500	47,000	1,000	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	1,000	0	
	08/30/1996		Stream	G	0	0	26,000	5,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Northeast Creek, 272-703									
	07/30/1996		Stream	E	0	0	18,000	1,000	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	27,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 18 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/24/1996		Stream	E	0	0	39,000	500	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/30/1996		Stream	G	0	0	18,000	2,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Cape Kunmik, 272-704									
	07/30/1996		Stream	E	0	0	100	0	
		David Owen	Mouth	E	0	0	1,000	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	500	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	200	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Yantarni Bay, 272-720									
	08/13/1996		Stream	G	0	0	500	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	0	5	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Yantarni Creek, 272-721									
	07/30/1996		Stream	E	0	0	12,000	1,000	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	35,000	0	
		David Owen	Mouth	G	0	0	3,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	16,000	4,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 19 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Ocean Beach, 272-801									
	07/30/1996	David Owen	Stream	E	0	0	7,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	25,000	0	
			Mouth	G	0	0	20,000	0	
			Bay	G	0	0	0	0	
	08/30/1996	David Owen	Stream	G	0	0	18,000	2,000	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Ocean Beach (north), 272-802									
	07/30/1996	David Owen	Stream	E	0	0	3,000	1,000	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	10,000	2,000	
			Mouth	G	0	0	3,000	0	
			Bay	G	0	0	0	0	
	08/30/1996	David Owen	Stream	G	0	500	20,000	12,000	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Nakalilok Bay, 272-803									
	07/30/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996	David Owen	Stream	G	0	0	500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/30/1996	David Owen	Stream	G	0	2	3,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Nakalilok River, 272-804									
	07/30/1996	David Owen	Stream	E	0	0	0	7,000	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 20 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/13/1996		Stream	G	0	0	38,000	0	
		David Owen	Mouth	G	0	0	7,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	30,000	5,000	
		David Owen	Mouth	G	0	5,000	0	20,000	
			Bay	G					
Nakalilok Bay(north), 272-805									
	07/30/1996		Stream	E	0	0	200	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	4,000	0	
		David Owen	Mouth	G	0	0	5,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	1,000	0	
		David Owen	Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
, 272-900									
	07/30/1996		Stream	E	0	0	1,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	4,000	0	
		David Owen	Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	500	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Cape Kuyuyukak, 272-901									
	07/30/1996		Stream	E	0	0	500	100	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	5,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 21 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/30/1996		Stream	G	0	0	3,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Cape Kuyuyukak, 272-902	07/30/1996		Stream	E	0	0	1,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	11,000	0	
		David Owen	Mouth	G	0	0	15,000	0	
			Bay	G	0	0	0	0	
Chiginagak River, 272-903	07/30/1996		Stream	E	0	0	2,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/30/1996		Stream	E	0	0	0	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	20,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	25	0	
			Bay	G	0	0	0	0	
Chiginagak River, 272-903A	07/30/1996		Stream	E	0	0	4,000	2,000	
		David Owen	Mouth	E	0	0	0	3,000	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	31,000	0	
		David Owen	Mouth	G	0	0	17,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	4,000	500	3 KINGS
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 22 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Chiginagak Bay, 272-903B									
	07/30/1996		Stream	E	0	0	0	50	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	1,000	0	FISH ALL ALONG BEACH
		David Owen	Mouth	G	0	0	40,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	300	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Chiginagak Bay, 272-904									
	07/30/1996		Stream	E	0	0	500	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	8,000	0	
		David Owen	Mouth	G	0	0	200	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	22,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Chiginagak Bay, 272-905									
	07/30/1996		Stream	E	0	0	1,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/13/1996		Stream	G	0	0	1,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	5,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Chiginagak Bay, 272-906									
	07/30/1996		Stream	E	0	0	4,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	5,000	0	

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Table 48. (page 23 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/13/1996		Stream	G	0	0	11,000	0	
		David Owen	Mouth	G	0	0	50,000	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	25,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Chiginagak Bay, 272-907									
	08/13/1996		Stream	G	0	0	1,000	0	
		David Owen	Mouth	G	0	0	200	0	
			Bay	G	0	0	0	0	
	08/30/1996		Stream	G	0	0	1,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Port Wrangell Bay, 272-921									
	07/30/1996		Stream	E	200	0	4,000	1,000	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/30/1996		Stream	G	700	0	6,000	4,000	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Port Wrangell Bay, 272-922									
	07/30/1996		Stream	E	0	0	0	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/30/1996		Stream	G	0	0	2,000	0	
		David Owen	Mouth	G	0	0	3,000	0	
			Bay	G	0	0	0	0	
Cape Providence, 272-923									
	08/30/1996		Stream	G	0	0	500	0	
		David Owen	Mouth	G	0	0	500	0	
			Bay	G	0	0	0	0	
Agrimina Lake, 272-961A									
	07/30/1996		Stream	E	0	0	7,000	500	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 24 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Agripina Slough, 272-961B	08/30/1996	David Owen	Stream	G	0	0	25,000	0	
			Mouth	G	0	0	500	0	
			Bay	G	0	0	0	0	
Glacier Creek, 272-962	07/30/1996	David Owen	Stream	E	0	0	200	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/30/1996	David Owen	Stream	G	0	0	4,000	500	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Glacier Creek, 272-962A	08/30/1996	David Owen	Stream	G	0	0	6,000	0	
			Mouth	G	0	0	700	0	
			Bay	G	0	0	0	0	
Kilokak Creek, 272-963	08/30/1996	David Owen	Stream	G	0	0	10,000	0	
			Mouth	G	0	0	20,000	0	
			Bay	G	0	0	0	0	
Red Bluff Creek, 273-702	07/02/1996	David Owen	Stream	E	0	0	0	300	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/15/1996	David Owen	Stream	G	0	0	0	200	
			Mouth	G	0	0	0	200	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	P	0	0	4,500	400	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	07/29/1996	David Owen	Stream	P	0	0	9,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
08/09/1996	David Owen	Stream	P	0	0	34,000	0		
		Mouth	P	0	0	0	0		
		Bay	P	0	0	0	0		

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Table 48. (page 25 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/22/1996	David Owen	Stream	F	0	0	22,000	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
	08/28/1996	David Owen	Stream	F	0	0	21,500	0	
			Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
Mitrofanina Bay, 273-720	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/09/1996	David Owen	Stream	G	0	0	200	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	2,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996	David Owen	Stream	P	0	0	1,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
Ivan River, 273-722	07/02/1996	David Owen	Stream	E	0	0	0	200	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/15/1996	David Owen	Stream	G	0	0	0	10	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	8,000	400	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/29/1996	David Owen	Stream	P	0	0	0	4,000	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	

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Table 48. (page 26 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/09/1996	David Owen	Stream	G	0	0	40,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	75,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	45,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Fishrack Bay, 273-723	07/29/1996	David Owen	Stream	P	0	0	200	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/08/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	20	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	100	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	1,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	100	0	
			Mouth	G	0	0	500	0	
			Bay	G	0	0	0	0	
Foot Creek, 273-802	07/15/1996	David Owen	Stream	G	0	0	10	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	0	100	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 27 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	07/29/1996		Stream	P	0	0	0	200	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/08/1996		Stream	P	0	0	100	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/15/1996		Stream	G	0	0	600	0	
		David Owen	Mouth	G	0	0	200	0	
			Bay	G	0	0	0	0	
	08/22/1996		Stream	P	0	0	3,000	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996		Stream	G	0	0	3,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Windy Creek, 273-821	08/15/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	500	0	
			Bay	G	0	0	0	0	
	08/22/1996		Stream	P	0	0	200	0	
		David Owen	Mouth	P	0	0	500	0	
			Bay	P	0	0	0	0	
	08/28/1996		Stream	P	0	0	700	0	
		David Owen	Mouth	P	0	0	500	0	
			Bay	P	0	0	0	0	
, 273-822	07/23/1996		Stream	E	0	0	0	20	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	15	
	08/08/1996		Stream	P	0	0	300	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	

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Table 48. (page 28 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/15/1996	David Owen	Stream	G	0	0	200	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	2,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996	David Owen	Stream	P	0	0	500	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	09/07/1996	David Owen	Stream	P	0	500	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
601	Spoon Creek, 273-823								
	07/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/08/1996	David Owen	Stream	P	0	0	500	0	
			Mouth	P	0	0	1,000	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	100	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	1,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	400	0	
			Mouth	G	0	0	500	0	
	Bay		G	0	0	0	0		
09/07/1996	David Owen	Stream	P	0	0	0	500		
		Mouth	P	0	0	0	0		
		Bay	P	0	0	0	0		

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Table 48. (page 29 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Portage Creek, 273-842									
	07/15/1996		Stream	G	0	0	0	12	
		David Owen	Mouth	G	0	0	0	100	
			Bay	G	0	0	0	0	
	07/23/1996		Stream	E	0	0	0	200	
		David Owen	Mouth	E	0	0	0	300	
			Bay	E	0	0	0	0	
	07/29/1996		Stream	G	0	0	0	3,500	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/08/1996		Stream	P	0	0	0	5,000	
		David Owen	Mouth	P	0	0	0	1,000	
			Bay	P	0	0	0	0	
	08/15/1996		Stream	F	0	0	8,000	0	
		David Owen	Mouth	F	0	0	0	1,000	
			Bay	F	0	0	0	0	
	08/22/1996		Stream	P	0	0	6,000	0	
		David Owen	Mouth	P	0	0	500	0	
			Bay	P	0	0	0	0	
	08/28/1996		Stream	F	0	0	3,000	0	
		David Owen	Mouth	F	0	0	0	8,000	
			Bay	F	0	0	0	1,000	
	09/07/1996		Stream	G	0	0	1,000	5,000	
		David Owen	Mouth	G	0	5,000	0	30,000	
			Bay	G	0	0	0	0	
Seal Bay, 273-843									
	07/23/1996		Stream	E	0	0	0	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/29/1996		Stream	P	0	0	300	0	
		David Owen	Mouth	P	0	0	5,000	0	
			Bay	P	0	0	0	0	

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Table 48. (page 30 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks	
					Sockeye	Coho	Pink	Chum		
	08/08/1996	David Owen	Stream	P	0	0	1,500	500		
			Mouth	P	0	0	0	0		
			Bay	P	0	0	0	0		
	08/15/1996	David Owen	Stream	F	0	0	5,000	0		
			Mouth	F	0	0	0	0		
			Bay	F	0	0	0	0		
	08/22/1996	David Owen	Stream	P	0	0	4,000	100		
			Mouth	P	0	0	0	0		
			Bay	P	0	0	0	0		
	09/07/1996	David Owen	Stream	G	0	1,000	0	500		
			Mouth	G	0	0	0	0		
			Bay	G	0	0	0	0		
111	Seal Bay, 273-844	David Owen	Stream	E	0	0	0	0		
	07/23/1996		Mouth	E	0	0	0	0		
			Bay	E	0	0	0	0		
		07/29/1996	David Owen	Stream	P	0	0	0	0	
				Mouth	P	0	0	0	0	
				Bay	P	0	0	0	0	
		08/08/1996	David Owen	Stream	P	0	0	0	0	
				Mouth	P	0	0	0	0	
				Bay	P	0	0	0	0	
		08/15/1996	David Owen	Stream	G	0	0	0	0	
				Mouth	G	0	0	500	0	
				Bay	G	0	0	0	0	
		08/22/1996	David Owen	Stream	P	0	0	0	0	
				Mouth	P	0	0	0	0	
				Bay	P	0	0	0	0	
		09/07/1996	David Owen	Stream	G	0	0	0	1,000	
				Mouth	G	0	0	0	0	
				Bay	G	0	0	0	0	

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Table 48. (page 31 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Dog Bay, 273-845									
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/29/1996	David Owen	Stream	P	0	0	0	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/08/1996	David Owen	Stream	P	0	0	0	1,000	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/15/1996	David Owen	Stream	G	0	0	1,500	500	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	P	0	0	3,000	0	
			Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	09/07/1996	David Owen	Stream	G	0	0	500	500	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Castle Creek, 273-941									
	08/08/1996	David Owen	Stream	G	0	0	100	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/17/1996	David Owen	Stream	G	0	0	0	200	
			Mouth	G	0	0	10,000	2,000	
			Bay	G	0	0	0	0	
	08/24/1996	David Owen	Stream	G	0	0	3,000	0	
			Mouth	G	0	0	20,000	5,000	
			Bay	G	0	0	0	0	
Hag Creek, 275-400									
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 32 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/09/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	3,500	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	E	0	0	700	0	
			Mouth	E	0	0	2,000	0	
			Bay	E	0	0	0	0	
Kupreanof Peninsula, 275-401	07/23/1996	David Owen	Stream	E	0	0	200	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	200	0	
	08/09/1996	David Owen	Stream	G	0	0	5,000	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	11,000	0	
			Mouth	E	0	0	1,000	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	E	0	0	13,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
Smokey Hollow Creek, 275-402	07/02/1996	Scott Moyer	Stream	E	0	0	0	1,000	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/02/1996	David Owen	Stream	E	0	0	0	1,000	
			Mouth	E	0	0	0	1,000	
			Bay	E	0	0	0	14,000	
	07/15/1996	David Owen	Stream	G	0	0	0	100	
			Mouth	G	0	0	0	500	
			Bay	G	0	0	0	0	

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Table 48. (page 33 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	07/23/1996	David Owen	Stream	E	0	0	0	2,000	
			Mouth	E	0	0	50	0	
			Bay	E	0	0	0	0	
	07/29/1996	David Owen	Stream	G	0	0	1,000	200	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/09/1996	David Owen	Stream	G	0	0	1,000	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	1,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	1,200	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Ivanof Bay, 275-403	07/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/09/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Wasco's Creek, 275-404	07/02/1996	David Owen	Stream	E	0	0	0	1,200	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 34 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/09/1996	David Owen	Stream	G	0	0	300	0	
			Mouth	G	0	0	200	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	15,000	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	13,500	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Sunnyside Creek, 275-405	08/09/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	400	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
Ivanof River, 275-406	07/02/1996	Scott Moyer	Stream	E	0	0	0	15,000	BAY FISH ALONG SHORELINE TO OLD CANNERY
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	70,000	
	07/02/1996	Scott Moyer	Stream	E	0	0	0	18,200	17,500 IN NORTHERN ARM
			Mouth	E	0	0	0	50,000	
			Bay	E	0	0	0	20,000	
	07/15/1996	David Owen	Stream	G	0	0	0	60,000	
			Mouth	G	0	0	0	20,000	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	15,000	65,000	
			Mouth	E	0	0	20,000	0	
			Bay	E	0	0	30,000	5,000	

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Table 48. (page 35 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	07/29/1996	David Owen	Stream	G	0	0	13,000	58,000	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	70,000	0	
	08/09/1996	David Owen	Stream	G	0	0	54,000	10,000	
			Mouth	G	0	0	70,000	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	159,000	0	
			Mouth	E	0	0	50,000	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	500	110,000	0	
			Mouth	G	0	7,000	0	0	
			Bay	G	0	0	0	0	
	Wolverine Cove, 275-408								
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	1,500	0	
	08/09/1996	David Owen	Stream	G	0	0	1,500	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	E	0	0	1,000	0	
			Mouth	E	0	0	6,000	0	
			Bay	E	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	2,000	0	
			Mouth	G	0	0	2,500	0	
			Bay	G	0	0	0	0	
	Humpback Creek, 275-502								
	07/02/1996	David Owen	Stream	E	0	0	0	50	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/15/1996	David Owen	Stream	G	0	0	5,000	0	
			Mouth	G	0	0	2,000	0	
			Bay	G	0	0	0	0	

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Table 48. (page 36 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	07/23/1996		Stream	E	0	0	9,000	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/29/1996		Stream	E	0	0	25,000	0	
		David Owen	Mouth	E	0	0	2,000	0	
			Bay	E	0	0	0	0	
	08/09/1996		Stream	G	0	0	39,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996		Stream	P	0	0	44,000	0	VERY TURBID
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/28/1996		Stream	F	0	0	16,000	0	
		David Owen	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
Humpback Bay, 275-503	07/15/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996		Stream	E	0	0	0	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/29/1996		Stream	E	0	0	500	0	
		David Owen	Mouth	E	0	0	1,000	0	
			Bay	E	0	0	0	0	
	08/22/1996		Stream	G	0	0	100	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/28/1996		Stream	G	0	0	500	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	

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Table 48. (page 37 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
Humpback Bay Creek, 275-504									
	07/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996	David Owen	Stream	E	0	0	0	0	
			Mouth	E	0	0	0	1,000	
			Bay	E	0	0	0	5,000	
	08/09/1996	David Owen	Stream	G	0	0	200	0	
			Mouth	G	0	0	5,000	0	
			Bay	G	0	0	0	0	
	08/22/1996	David Owen	Stream	G	0	0	3,500	0	
			Mouth	G	0	0	3,000	0	
			Bay	G	0	0	0	0	
	08/28/1996	David Owen	Stream	G	0	0	4,000	0	
			Mouth	G	0	0	1,000	0	
			Bay	G	0	0	0	0	
Alexander Point, 275-505									
	07/15/1996	David Owen	Stream	G	0	0	0	0	
			Mouth	G	0	0	0	2,000	
			Bay	G	0	0	0	0	
	08/09/1996	David Owen	Stream	G	0	0	2,000	0	
			Mouth	G	0	0	5,000	0	
			Bay	G	0	0	10,000	0	
	08/22/1996	David Owen	Stream	G	0	0	1,000	0	
			Mouth	G	0	0	20,000	0	
			Bay	G	0	0	0	0	
	08/28/1996	David Owen	Stream	E	0	0	1,000	0	
			Mouth	E	0	0	3,000	0	
			Bay	E	0	0	0	0	
Kametolook River, 275-600									
	07/23/1996	David Owen	Stream	E	0	0	0	1	
			Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	

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Table 48. (page 38 of 38)

Stream	Date	Observer	Location	Visi- bility	Species				Observer Remarks
					Sockeye	Coho	Pink	Chum	
	08/09/1996		Stream	G	0	0	0	5	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996		Stream	E	0	0	300	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	08/28/1996		Stream	F	0	0	200	0	
		David Owen	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	
Kametolook River (n), 275-601	07/02/1996		Stream	E	0	0	0	0	
		David Owen	Mouth	E	0	0	0	0	
			Bay	E	0	0	0	0	
	07/15/1996		Stream	G	0	0	0	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	07/23/1996		Stream	P	0	0	0	0	
		David Owen	Mouth	P	0	0	0	0	
			Bay	P	0	0	0	0	
	08/09/1996		Stream	G	0	0	750	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/22/1996		Stream	G	0	0	10,000	0	
		David Owen	Mouth	G	0	0	0	0	
			Bay	G	0	0	0	0	
	08/28/1996		Stream	F	0	0	9,000	0	
		David Owen	Mouth	F	0	0	0	0	
			Bay	F	0	0	0	0	

Table 49. Pink and chum salmon escapement estimates (in thousands of fish) for select Chignik Management Area streams, 1953-1996 .

Year ^{a,b}	Thompson Valley 272-204		Hook Bay 272-302		Cape Kumlik 272-501		Bear Cr. 272-505	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	25.3	0.0	13.0	6.3			0.0	0.7
1954	28.2	4.5	14.3	5.3			0.2	0.2
1955	115.0	3.0	78.0	0.0			1.0	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	7.0	0.0	18.9	4.1	7.0	0.0	0.0	12.4
1963	23.3	0.0	33.0	7.5	23.0	0.0	0.0	9.5
1964	4.1	0.0	42.0	1.2	8.7	0.0	0.0	8.8
1965	9.4	0.0	23.3	2.1	13.7	0.0	0.0	8.5
1966	4.1	0.0	10.0	0.5	3.8	0.0	0.0	4.3
1967	2.0	0.4	7.3	2.5	5.2	0.0	0.0	8.0
1968			5.0	0.0			0.0	2.7
1969	19.0	0.0	30.0	0.0			0.0	4.5
1970	12.0	0.0	11.0	1.0	5.0	0.0	0.0	10.0
1971	7.5	0.0	13.0	8.0	51.0	0.0	0.0	10.0
1972	0.2	0.0	0.4	1.1	0.2	0.0	0.0	2.5
1973	2.3	0.2	4.9	4.7	40.0	0.0	0.0	4.0
1974	1.6	0.1	3.8	0.8	0.6	0.0	0.0	2.3
1975	10.2	0.0	1.3	6.0	17.8	0.0	0.0	1.5
1976	5.5	0.2	8.0	2.5	2.6	0.0	0.0	1.4
1977	29.4	0.0	22.6	2.0	124.0	0.0	0.5	2.6
1978	14.0	0.0	14.5	2.8	6.1	0.0	0.1	1.5
1979	35.5	1.0	42.7	11.0	153.0	0.0	0.0	5.0
1980	0.7	0.0	24.5	4.2	2.6	0.0	0.2	0.0
1981	6.5	0.5	13.9	9.0	36.2	0.0	0.1	0.0
1982	1.2	0.0	7.3	10.0	0.9	0.0	0.0	2.5
1983	2.3	0.0	0.2	0.3	0.0	0.0	2.0	7.9
1984	14.0	0.0	16.2	0.1	3.7	0.0	0.3	2.3
1985	0.0	0.0	2.0	0.0			0.0	7.2
1986	0.3	0.0	66.9	0.0	38.2	0.0	0.0	7.5
1987			9.5	0.3	46.9	0.3	0.0	12.0
1988	9.6	3.3	26.4	0.7	18.0	0.0	0.0	0.7
1989	16.6	3.7	45.5	10.2	63.0	0.0	0.0	3.6
1990	4.8	0.0	16.7	0.2	3.2	0.0	0.3	T
1991	0.0	0.0	0.0	0.0	109.7	0.0	0.0	0.9
1992	61.2	0.0	7.2	7.5	15.4	0.0	0.0	20.8
1993	0.0	19.0	26.2	9.3	82.0	0.0	0.0	1.4
1994	48.0	4.0	21.5	8.9	21.0	0.0	0.0	22.0
1995	8.3	0.0	61.4	0.6	252.4	0.0	6.0	10.1
1996	38.2	6.0	42.9	2.0	7.2	0.0	0.2	7.2

-Continued-

Table 49. (page 2 of 8)

Year	Rudys Cr. 272-509		North Fork 272-514		Aniakchak R. 272-605		Cape Agutka 272-606	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	0.7	0.2	1.3	3.5	0.0	35.0	0.2	0.7
1954			55.0	4.6	100.0	37.2	3.9	1.5
1955	15.0	4.0	13.5	1.0	16.0	0.0	1.2	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	4.5	5.2	34.0	0.8	126.0	25.0	17.6	0.5
1963	0.0	12.0	9.7	1.8	6.0	14.6	0.4	0.0
1964	0.5	5.0	68.0	3.0	175.0	82.5	11.0	1.1
1965	0.0	1.1	8.7	2.0	10.8	4.0	5.1	0.1
1966	2.0	3.0	2.0		90.8	9.0	7.7	0.2
1967	1.0	3.0	20.0	1.1	2.0	10.5	1.1	0.1
1968	2.0	7.0	26.0	0.0	85.0	10.0	22.3	0.0
1969	0.2	1.0	5.2	4.0	0.1	0.5	4.6	2.0
1970	0.0	3.0	24.0	8.0	40.0	30.5	10.0	2.0
1971	0.0	1.3	0.0	4.5	0.0	11.5	2.0	3.0
1972	0.2	1.7	1.7	6.9	1.8	7.1	2.5	1.5
1973	0.0	1.2	2.8	1.5	2.7	4.0	1.5	1.8
1974	0.8	4.2	2.5	4.2	29.8	25.7	1.6	0.0
1975	0.0	1.8	0.4	3.7	2.4	5.5	1.9	0.2
1976	6.2	3.7	17.5	7.9	165.0	34.0	5.9	0.8
1977	6.3	0.9	6.6	2.3	3.0	14.8	1.0	0.1
1978	4.0	2.2	46.0	6.9	215.5	23.2	8.0	0.2
1979	12.0	7.7	12.7	5.6	0.0	0.2	13.0	1.5
1980	9.3	0.0	38.5	29.5	40.0	43.0	20.0	5.5
1981	0.7	0.1	15.8	16.5	2.7	32.0	5.8	0.0
1982	0.2	8.7	19.0	3.5	130.0	47.0	21.0	0.0
1983	0.0	1.3	4.1	1.3	1.0	3.1	0.1	0.0
1984	4.5	5.0	32.4	17.4	56.4	47.0	17.2	1.2
1985	0.0	0.0	4.7	1.3	0.0	0.0	0.0	0.0
1986	38.0	10.9	34.3	5.0	1.5	0.5	65.0	0.4
1987	0.0	0.0	8.8	4.0	2.5	0.3	4.2	0.3
1988	34.9	16.6	48.5	17.0	95.1	17.4	84.4	0.0
1989	7.3	0.4	23.0	1.2	5.0	2.5	1.8	0.0
1990	8.0	1.3	40.9	0.7	19.7	11.6	46.5	0.0
1991	0.0	7.4	2.1	2.9	0.0	7.6	4.1	0.0
1992	15.0	48.2	42.3	59.7	96.6	53.8	161.9	16.8
1993	3.7	0.0	24.5	8.0	0.0	7.8	53.0	T
1994	4.0	35.0	31.0	5.2	60.0	40.0	35.0	0.0
1995	49.0	2.5	84.5	15.0	70.0	50.0	91.1	0.0
1996	22.9	5.3	63.9	11.0	198.0	51.5	82.6	0.0

-Continued-

Table 49. (page 3 of 8)

Year	Main Cr. 272-702		Northeast Cr. 272-703		Yantarni R. 272-721		Ocean Beach 272-801	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	0.2	17.0	3.5	2.0				
1954	6.9	21.5	1.1	0.8				
1955	25.2	0.8			7.5	7.0	8.0	3.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	33.0	3.6	1.6	2.5	52.5	0.1	45.0	2.0
1963	16.0	5.8	5.0	0.9	16.0	0.3	3.4	0.0
1964	40.5		2.3	3.0	42.0	21.0	34.6	10.1
1965	5.0	4.8	2.3	6.0	4.0	7.6	0.4	1.0
1966	3.0	0.0	1.3	0.2	18.5	5.0	11.0	3.3
1967	16.5	2.0	2.0	0.2				
1968	28.0	8.0	7.7	1.0	25.0	6.5	26.5	0.0
1969	3.0	15.0	7.0	4.5	1.5	11.0	6.0	3.5
1970	13.0	7.0	7.0	6.0	1.5	11.5	7.5	5.0
1971	1.0	20.0	2.0	5.5	0.0	18.0	0.0	3.5
1972	2.0	8.0	1.7	0.5	2.1	21.0	0.5	4.6
1973	1.0	7.0	1.1	3.1	0.3	6.5	0.6	1.7
1974	6.6	6.3	3.0	2.0	3.7	3.8	2.3	2.2
1975	4.7	8.0	0.4	0.7	0.3	1.6	0.8	0.2
1976	5.5	8.5	3.8	2.0	5.8	12.5	4.2	3.0
1977	4.5	3.5	10.0	0.8	1.9	3.5	1.1	0.4
1978	5.6	7.6	4.4	4.6	7.9	3.3	7.1	0.5
1979	13.5	14.0	7.0	7.5	14.0	9.5	1.5	0.0
1980	53.5	17.0	4.8	3.0	60.0	11.0	27.6	0.0
1981	6.3	16.3	5.9	2.5	13.5	18.2	10.5	5.5
1982	36.0	12.3	6.2	3.7	8.5	25.5	0.0	14.5
1983	9.2	6.7	3.2	4.7	3.6	13.4	3.1	1.5
1984	15.7	14.5	7.0	4.3	26.5	18.7	19.0	13.2
1985	13.7	4.0	9.0	0.0	67.8	0.7	9.9	0.0
1986	85.0	0.0	13.6	0.0	3.1	0.3	1.8	0.2
1987	14.3	1.5	7.5	0.4	18.0	3.0	13.0	2.7
1988	43.6	5.5	41.4	10.6	33.7	30.3	32.8	12.8
1989	53.0	3.2	17.0	4.0	10.9	3.4	10.9	4.8
1990	54.3	5.7	80.3	13.3	23.6	9.3	45.0	1.3
1991	0.0	8.4	1.9	8.8	5.3	1.7	0.0	2.8
1992	30.3	45.2	31.9	50.5	14.9	26.2	15.6	7.1
1993	26.5	14.0	24.2	0.0			10.0	23.0
1994	30.0	0.5	44.4	6.1	57.3	4.6	42.5	10.0
1995	123.3	9.0	98.7	7.4	54.0	10.0	74.8	3.8
1996	94.8	10.0	68.6	3.0	61.1	5.0	49.5	2.0

-Continued-

Table 49. (page 4 of 8)

Year	Nakalilok R. 272-804		Chiginagak 272-902		Chiginagak R. 272-903		Chiginagak 272-904	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953								
1954								
1955	3.0	0.5			0.0	15.9		
1956								
1957								
1958								
1959								
1960								
1961								
1962	22.0	0.1	16.0	0.0	0.3	34.3	20.1	0.0
1963	10.4	0.1	1.2	0.0	0.0	15.0	43.0	0.0
1964	89.0	3.0	20.0	0.0	6.0	24.4	41.4	0.0
1965	0.5	9.0	0.4	0.0	0.0	13.8	12.4	0.1
1966	12.5	0.0	5.8	0.0	0.0	33.2	16.0	0.0
1967	3.5	18.5	0.5	0.1	0.0	27.0	12.4	0.0
1968	7.4	2.0	21.0	0.0	2.0	29.5	20.0	0.0
1969	8.0	3.5	1.3	0.0		20.0	6.0	0.0
1970	10.0	6.5	11.0	0.0	0.0	31.0	4.0	0.0
1971	1.0	44.0	2.8	0.0	0.0	86.0	1.1	0.0
1972	0.0	6.0	0.1	0.3	1.0	33.0	0.1	0.1
1973	0.5	5.2	0.3	0.0	0.2	28.3	0.5	0.0
1974	2.2	4.8	0.2	0.2	8.5	28.5	0.9	0.0
1975	3.0	4.8	0.5	0.5	2.9	20.3	0.8	0.0
1976	2.4	14.2	0.7	0.0	0.7	35.0	2.2	0.0
1977	3.8	4.9	2.7	0.0	1.8	19.4	3.8	0.0
1978	8.1	4.2	4.4	0.4	1.3	9.1	3.5	0.0
1979	12.0	2.9	11.0	15.0	0.4	24.3	7.2	0.0
1980	25.6	14.0	17.9	0.0	16.3	5.7	14.5	0.0
1981	6.5	8.0	5.0	0.0	6.0	23.4	6.9	0.0
1982	4.0	12.3	2.2	0.0	2.0	18.5	1.7	0.4
1983	4.8	4.2	0.7	0.0	1.8	9.6	1.9	0.0
1984	15.0	36.5	16.6	0.0	6.9	53.8	19.5	3.0
1985	27.0	0.0	0.0	0.0	1.0	0.0	5.0	0.0
1986	12.7	1.0	42.3	0.0	21.1	3.3	8.9	0.0
1987	1.4	3.8	3.2	0.4	67.5	15.7	11.0	3.3
1988	16.8	8.0	33.7	0.0	12.6	13.2	40.0	30.0
1989	10.6	4.1	22.0	0.0	70.4	4.2	32.0	11.5
1990	47.0	6.3	19.2	0.0	63.0	9.8	18.7	5.0
1991	0.0	4.1	18.6	0.0	0.3	0.0	0.5	5.5
1992	16.7	27.3	27.6	0.6	0.0	4.5	0.1	0.0
1993	30.0	33.0	35.3	0.0	59.8	10.0	59.3	10.0
1994	71.4	6.1	35.0	0.0	35.0	3.0	109.0	5.0
1995	101.0	1.9	63.0	5.0	0.0	0.3	119.1	0.0
1996	71.3	32.1	26.3	0.0	22.0	0.0	32.7	0.0

-Continued-

Table 49. (page 5 of 8)

Year	Chiginagak 272-905		Aripina R. 272-961A		Glacier Cr. 272-962		Kilokak 272-963	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953								
1954								
1955					0.0	0.0		
1956								
1957								
1958								
1959								
1960								
1961								
1962	17.1	0.0	12.0	3.0	0.5	3.0	16.2	0.0
1963	1.0	0.0	19.2	0.1	0.0	10.0	0.8	0.0
1964	100.0	0.3	8.5	0.0	0.5	6.0	14.2	0.0
1965	1.2	0.0	20.1	0.0	0.0	1.3	0.1	0.0
1966	90.5	0.0					24.5	0.0
1967	5.8	1.8	7.3	0.5	0.0	5.6	0.3	0.0
1968	53.0	0.0	12.0	0.0	0.0	0.2	65.6	0.0
1969	2.4	0.0	2.5	0.0	0.0	2.0	0.2	0.0
1970	24.0	0.0	15.5	0.0	0.0	5.0	55.0	0.0
1971	4.3	2.0	6.6	0.0	0.0	6.0	0.0	0.0
1972	2.4	0.0	1.6	0.0	0.0	4.6	2.1	0.0
1973	1.0	0.0	4.2	0.5	0.0	3.0	0.1	0.0
1974	1.9	0.0	1.2	0.2	0.0	0.9	0.3	0.0
1975	2.1	0.2	2.7	0.0	0.2	0.5	0.6	0.0
1976	20.1	0.4	4.9	0.0	0.0	1.8	4.9	0.0
1977	22.0	1.3	4.3	0.0	0.0	1.0	0.5	0.0
1978	41.0	0.4	7.4	0.1	0.6	1.1	5.9	0.0
1979	61.1	0.0	23.5	0.0	0.0	1.6	1.1	0.0
1980	38.5	0.0	14.3	0.0	5.2	0.7	61.0	0.0
1981	48.0	0.1	13.4	0.0	0.0	0.6	0.3	0.0
1982	34.1	0.0	33.0	0.0	0.0	1.1	20.0	0.0
1983	3.6	5.0	5.0	0.0	1.3	0.2	0.3	0.0
1984	117.2	0.2	39.8	0.0	1.0	3.2	75.8	0.0
1985	17.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0
1986	85.0	0.1	0.0	0.0	0.0	0.0	175.0	0.0
1987	20.0	0.3	1.0	0.0	6.2	0.0	0.0	0.0
1988	52.9	14.4	78.0	20.6	0.3	0.0	137.8	0.0
1989	89.0	4.0	53.0	0.0	0.3	0.1	10.5	0.0
1990	84.8	2.4	33.3	0.0	1.1	0.2	83.4	0.0
1991	5.2	5.0	9.6	5.0	0.2	1.2	9.7	0.0
1992	137.8	5.1	180.5	5.7	10.4	0.0	157.8	0.0
1993	87.3	10.0	47.2	0.0	0.0	0.0	105.7	0.0
1994	45.0	6.0	65.0	25.0	3.0	0.1	70.0	0.0
1995	8.5	0.0	100.0	4.7	9.0	0.2	29.0	0.0
1996	7.5	0.0	7.0	0.5	6.5	0.5	30.0	0.0

-Continued-

Table 49. (page 6 of 8)

Year	Coal Cape 273-702		Ivan River 273-722		Foot Bay 273-802		Spoon Cr. 273-823	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953							1.0	1.5
1954								
1955							15.0	0.0
1956								
1957								
1958								
1959								
1960								
1961								
1962	129.0	12.0	85.0	36.0	13.3	1.0	10.6	2.0
1963	127.5	0.0	124.0	4.5	11.0	1.0	3.5	0.0
1964	60.0	10.0	65.5		12.0	0.9	13.2	0.0
1965	48.0	5.9	89.1	0.0	5.3	0.0	1.4	0.0
1966	9.7	2.0	94.5	1.0	18.4	0.2	15.5	0.0
1967	9.0	1.0	35.0	7.0	4.7	0.0	2.4	0.0
1968	39.0		85.0	0.0	14.2	0.0	7.8	0.0
1969	77.0	0.0	302.0	0.0	14.2	0.1	6.5	0.0
1970	69.0	0.0	103.0	17.0	14.5	3.0	10.5	0.0
1971	8.0	0.0	205.0	90.0	30.0	5.2	7.0	0.0
1972	2.5	4.5	4.4	13.0	0.6	0.6	0.2	0.0
1973	1.6	1.0	43.8	17.2	7.5	0.3	0.8	0.2
1974	62.8	5.1	3.9	22.3	2.1	0.3	1.7	0.0
1975	21.0	4.5	96.0	24.5	9.8	0.0	4.5	0.0
1976	70.3	13.4	17.3	22.1	7.0	1.1	9.3	1.9
1977	78.5	0.0	236.0	36.0	18.3	0.8	5.7	0.1
1978	218.5	0.1	73.7	0.8	16.6	2.0	7.5	0.1
1979	50.2	2.0	90.0	32.0	9.6	0.4	7.1	1.0
1980	53.0	12.5	51.0	22.1	3.5	1.0	4.5	0.9
1981	84.9	3.0	117.0	28.0	10.0	4.6	6.7	0.8
1982	30.5	3.3	21.0	16.3	1.4	2.8	0.1	0.4
1983	17.8	0.5	12.2	7.2	1.2	1.1	0.8	0.0
1984	60.2	6.5	103.0	40.0	6.0	1.8	0.3	0.1
1985	3.5	0.5	49.6	23.3	5.9	1.7	0.3	0.0
1986	22.0	0.0	10.1	0.0	4.9	0.0	0.5	0.0
1987	13.4	0.4	14.8	2.4	6.6	1.0	0.0	0.0
1988	135.6	10.6	57.0	5.6	13.0	0.9	3.1	0.3
1989	2.9	1.5	32.0	0.8	10.8	0.6	1.7	0.1
1990	7.5	0.8	23.1	14.3	8.2	0.2	0.8	2.0
1991	53.6	0.0	42.2	3.1	0.0	4.9	0.0	1.7
1992	0.0	0.3	31.4	45.1	1.1	0.0	0.8	0.2
1993	16.1	0.0	17.3	1.7	6.1	0.0	0.3	0.3
1994	17.0	7.5	35.5	0.0	7.0	0.2	0.5	0.5
1995	174.1	0.1	161.2	1.0	19.0	0.0	10.1	0.0
1996	63.4	0.6	105.7	4.2	4.0	0.2	1.1	0.5

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Table 49. (page 7 of 8)

Year	Portage 273-842		Seal Bay 273-843		Kupreanof 275-401		Smokey Hollow 275-402	
	Pink	Chum	Pink	Chum	Pink	Chum	Pink	Chum
1953	5.3	0.5	2.0	2.0				
1954								
1955	0.0	20.0	0.0	0.6				
1956								
1957								
1958								
1959								
1960								
1961								
1962	0.0	23.8	0.0	1.8	12.2	0.0	3.6	3.9
1963	27.0	4.4	6.0	0.0	3.5	0.0	1.5	2.0
1964	0.0	20.4	1.3	0.0	13.0	1.1	0.8	17.0
1965	1.7	8.3	3.3	0.0	3.0	0.0	0.0	0.5
1966	24.4	8.9	4.0	0.0			0.0	7.4
1967	28.5	15.0	6.0	0.5	6.7	0.0	0.0	0.3
1968	3.3	5.0	2.5	0.0	14.0	0.0	0.0	0.9
1969	0.1	27.5	7.5	0.0	6.8	0.2	0.0	0.2
1970	9.0	27.6	5.2	0.0	11.0	0.0	0.0	2.5
1971	10.2	60.1	5.0	10.1	3.5	0.0	0.0	1.5
1972	0.1	21.4	0.0	11.1	1.0	0.5	0.0	2.0
1973	2.9	18.1	2.0	0.1	0.2	0.5	0.2	0.6
1974	0.0	8.7	1.2	1.0	1.2	0.5	0.4	0.8
1975	0.4	9.2	5.3	2.3	1.0	0.1	0.1	0.1
1976	0.9	8.5	0.6	4.6	4.0	0.0	0.6	0.8
1977	5.0	20.5	3.1	5.2	5.1	0.0	2.3	1.6
1978	4.1	19.0	1.5	1.4	16.1	0.0	0.5	0.5
1979	17.7	4.5	0.2	0.6	28.0	0.0	0.6	0.4
1980	10.2	18.5	1.0	0.5	11.6	0.0	0.5	0.3
1981	6.5	33.3	9.0	0.0	22.5	0.1	1.5	0.0
1982	0.0	6.3	0.0	3.5	5.5	0.0	0.0	0.0
1983	0.3	7.3	0.8	0.0	3.5	0.0	0.2	2.6
1984	1.0	14.6	4.6	5.5	5.2	0.0	0.3	1.4
1985	0.0	9.1	7.3	0.0			0.2	0.0
1986	0.7	5.0	0.0	0.1			0.5	0.1
1987	0.0	10.2	0.5	3.9			1.4	0.1
1988	4.0	6.1	0.0	0.8	5.1	0.0	0.9	1.0
1989	1.2	1.6	1.7	0.8	4.2	0.1	9.4	0.1
1990	0.9	8.9	0.0	2.2	13.5	0.0	1.3	1.5
1991	0.0	22.0	0.0	3.4	7.1	0.0	0.0	10.0
1992	2.5	5.3	1.5	2.0	28.8	0.0	1.2	0.8
1993	0.0	10.6	1.0	1.3	10.0	0.0	0.0	7.3
1994	17.3	6.0	5.0	3.0	9.4	0.0	1.6	3.5
1995	41.8	33.9	27.0	0.1	26.0	0.5	23.7	1.5
1996	7.1	30.0	6.4	1.0	22.5	0.0	3.0	3.0

-Continued-

Table 49. (page 8 of 8)

Year	Wasco's Cr. 275-404		Ivanof River 275-406		Humpback Cr. 275-502	
	Pink	Chum	Pink	Chum	Pink	Chum
1953						
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962	23.0	0.0	48.5	2.5	64.5	3.0
1963	1.0	0.0	128.0	4.0	26.4	0.4
1964	0.0	6.5	15.0	0.8	40.7	0.2
1965	2.0	0.0	61.4	5.5	13.8	0.0
1966	10.5	0.0	39.5	9.0	30.0	0.0
1967	2.0	0.0	98.5	3.0	36.7	0.0
1968	0.3	0.0	60.0	0.5	52.3	0.0
1969	4.0	0.0	122.4	0.5	75.0	0.0
1970	2.5	0.0	51.0	10.0	31.0	0.0
1971	3.0	4.0	25.0	21.0	13.4	1.5
1972	0.3	0.0	6.3	7.8	0.5	1.0
1973	0.0	0.0	24.7	8.2	6.1	0.6
1974	6.3	1.9	41.9	8.1	10.2	0.7
1975	0.9	0.0	33.4	15.0	9.2	3.5
1976	6.2	0.2	55.0	6.8	20.3	0.7
1977	1.6	0.5	51.8	9.0	48.2	1.2
1978	9.7	0.0	71.5	4.2	51.0	0.2
1979	2.0	0.1	89.0	7.1	59.0	5.0
1980	0.0	3.0	40.5	22.7	18.7	3.1
1981	0.0	0.2	39.9	17.0	46.5	2.0
1982	0.1	2.3	2.7	9.4	4.8	11.0
1983	2.0	0.0	34.3	5.6	17.8	0.0
1984	14.6	1.4	61.0	42.5	18.3	0.7
1985	0.3	0.0	181.6	10.6	36.8	0.3
1986	10.0	0.0	150.0	7.6	12.0	0.0
1987	11.9	0.1	24.7	6.9	15.5	0.8
1988	14.0	1.1	126.0	30.6	30.8	0.4
1989	3.8	0.3	161.0	4.0	51.0	0.5
1990	0.5	4.4	47.3	33.7	7.4	0.5
1991	0.0	0.1	118.3	332.9	28.8	0.0
1992	9.0	0.0	109.3	285.8	36.1	2.3
1993	0.0	1.0	230.2	22.7	96.9	4.8
1994	2.1	0.0	74.2	120.2	40.0	2.0
1995	14.0	3.4	234.2	128.0	195.7	0.7
1996	19.3	1.2	227.9	124.7	85.7	T

^aEscapement from 1953-1984 are based on index estimates described by Shaul and Schwarz (1989) and from 1985-1996 estimates are based on area-under-the-curve methodology described by Johnson and Barrett (1988).

^bSeptember 15 was assumed to be last day of entry.

Table 50. Estimated Subsistence Harvests of Salmon, Chignik Management Area, 1976 - 1996.

Year ^a	Number of Permits		Percentage	Estimated	Percentage	Estimated Harvests					
	Issued	Returned	Returned	Number	Fished	Chinook	Sockeye	Coho	Pink	Chum	Total
1976						100	6,000	1,500	500	150	8,250
1977						50	9,700	2,400	1,800	600	14,550
1978						50	6,000	500	2,100	600	9,250
1979						14	7,750	34	262	0	8,060
1980	82	37	45.1%	70.0	85.4%	6	12,475	32	478	169	13,160
1981	29	7	24.1%	18.0	62.1%	0	2,049	0	0	0	2,049
1982	59	15	25.4%	56.0	94.9%	3	8,532	12	2	0	8,548
1983	32	21	65.6%	26.5	82.8%	0	3,078	1,319	1,250	850	6,497
1984	77	64	83.1%	57.7	74.9%	23	8,747	464	330	204	9,768
1985	59	48	81.4%	49.0	83.1%	1	7,177	50	26	25	7,279
1986	74	38	51.4%	70.0	94.6%	4	10,347	205	98	77	10,730
1987	NA	NA	NA	NA	NA	10	7,021	278	204	261	7,774
1988	80	34	42.5%	77.0	96.3%	9	9,073	1,455	54	142	10,733
1989	68	23	33.8%	46.8	68.8%	24	7,552	384	81	147	8,187
1990	72	23	31.9%	62.0	86.1%	103	8,099	210	470	115	8,996
1991	95	58	61.1%	83.0	87.4%	42	11,483	13	275	81	11,893
1992	98	19	19.4%	85.8	87.5%	55	8,648	709	305	145	9,862
1993	202	141	69.8%	163.6	81.0%	122	14,710	3,765	1,265	642	20,503
1994	219	122	55.7%	159.9	73.0%	165	13,978	4,055	1,720	382	20,300
1995	111	95	85.6%	95.2	85.8%	98	9,563	1,191	723	150	11,725
1996	119	104	87.4%	104.1	87.5%	48	7,357	2,126	2,204	355	12,090
Average 1980-96	92.3	53.1	57.5%	76.5	83.0%	42	8,817	957	558	220	10,594
Average 1993-96	149.8	96.2	64.2%	122.3	83.2%	98	10,851	2,369	1,243	335	14,896

^a In 1993, the Division of Subsistence, ADF&G, obtained copies of all available subsistence permits for the Chignik Management Area from the Division of Commercial Fisheries archive in Kodiak. Permits issued prior to 1980 and for 1987 could not be located. All permit data were entered into a database. The estimated harvests reported in this table differ slightly from that reported in earlier annual management reports for several reasons. There are small discrepancies in some years for the number of permits issued or returned. Estimated harvests in earlier annual management reports were based on a simple expansion from harvests reported on returned permits to the total number of permits issued. Harvest estimates in this table are based on the sum of expanded community harvest estimates, similar to the method used in the Bristol Bay.

Since 1993, the Division of Subsistence has been responsible for permit data entry and harvest estimates for the Chignik Management Area. Increases in permits issued beginning in 1993, and consequently higher harvest estimates, reflect the use of local vendors to issue permits and post-season surveys by department staff and local research assistants.

Sources: Quimby and Owen 1994:90, for 1976-1979 and 1987; Division of Subsistence, ADF&G, Chignik Subsistence Salmon Permit Database, Anchorage, for the remaining years.

Table 51. Number of permits, landings, and salmon species harvested for personal use in the commercial salmon fishery in the Chignik Management Area, 1996.

Catch MM/DD	Fishing Effort		Number Of Salmon				
	Permits	Landings	Chinook	Sockeye	Coho	Pink	Chum
14-Jun	10	10	3	0	0	573	0
15-Jun	3	3	0	0	0	293	0
18-Jun	3	3	1	0	0	151	0
19-Jun	3	3	0	0	0	131	1,601
20-Jun	3	3	0	0	0	16	756
22-Jun	6	6	0	0	0	23	316
23-Jun	14	14	0	0	0	8	1,261
24-Jun	14	14	0	0	0	20	1,295
27-Jun	11	11	0	0	0	0	1,500
28-Jun	10	10	0	0	0	0	1,302
29-Jun	9	9	1	0	0	34	516
30-Jun	4	4	0	0	0	36	439
1-Jul	12	12	25	0	0	0	1,098
2-Jul	9	9	0	0	0	111	1,226
3-Jul	5	5	0	0	0	363	1,662
4-Jul	6	6	0	0	0	100	1,185
5-Jul	9	9	0	0	0	425	1,645
6-Jul	3	3	0	0	0	0	820
7-Jul	3	3	0	0	0	527	1,127
8-Jul	4	4	0	0	0	0	417
9-Jul	3	3	0	0	0	0	300
12-Jul	9	9	1	0	0	46	167
13-Jul	19	19	4	0	0	981	740
14-Jul	15	16	0	0	0	811	783
15-Jul	17	17	3	40	0	328	307
18-Jul	5	5	0	0	0	5	7
19-Jul	13	14	0	0	0	63	122
20-Jul	9	9	1	0	0	27	22
21-Jul	6	6	1	0	0	10	306
30-Jul	2	2	0	0	0	21	0
31-Jul	7	7	0	0	0	22	14
1-Aug	4	4	0	0	0	53	10
2-Aug	4	4	0	0	0	33	15
3-Aug	4	4	0	0	0	12	45
4-Aug	5	5	0	0	0	27	2
5-Aug	5	5	0	0	20	4	31
10-Aug	1	1	0	0	0	0	57
11-Aug	3	3	0	0	0	8	6
Total	57	274	40	40	20	5,262	21,100

Table 52. Daily Dolly Varden escapement estimates through the Chignik weir by day, 1996.

Date	Escapement		Date	Escapement	
	Daily	Cumulative		Daily	Cumulative
May-27	0	0	Jul-18	1,066	19,112
May-28	0	0	Jul-19	1,047	20,159
May-29	0	0	Jul-20	630	20,789
May-30	1	1	Jul-21	438	21,227
May-31	0	1	Jul-22	1,514	22,741
Jun-01	0	1	Jul-23	1,146	23,887
Jun-02	0	1	Jul-24	2,322	26,209
Jun-03	0	1	Jul-25	1,834	28,043
Jun-04	0	1	Jul-26	1,110	29,153
Jun-05	0	1	Jul-27	992	30,145
Jun-06	0	1	Jul-28	1,248	31,393
Jun-07	0	1	Jul-29	1,876	33,269
Jun-08	0	1	Jul-30	618	33,887
Jun-09	0	1	Jul-31	861	34,748
Jun-10	0	1	Aug-01	632	35,380
Jun-11	18	19	Aug-02	649	36,029
Jun-12	0	19	Aug-03	752	36,781
Jun-13	18	37	Aug-04	186	36,967
Jun-14	30	67	Aug-05	258	37,225
Jun-15	52	119	Aug-06	348	37,573
Jun-16	78	197	Aug-07	476	38,049
Jun-17	264	461	Aug-08	618	38,667
Jun-18	132	593	Aug-09	786	39,453
Jun-19	30	623	Aug-10	288	39,741
Jun-20	60	683	Aug-11	168	39,909
Jun-21	72	755	Aug-12	522	40,431
Jun-22	60	815	Aug-13	1,132	41,563
Jun-23	30	845	Aug-14	508	42,071
Jun-24	13	858	Aug-15	554	42,625
Jun-25	138	996	Aug-16	488	43,113
Jun-26	114	1,110	Aug-17	537	43,650
Jun-27	288	1,398	Aug-18	342	43,992
Jun-28	370	1,768	Aug-19	561	44,553
Jun-29	342	2,110	Aug-20	888	45,441
Jun-30	36	2,146	Aug-21	841	46,282
Jul-01	546	2,692	Aug-22	1,303	47,585
Jul-02	120	2,812	Aug-23	2,312	49,897
Jul-03	444	3,256	Aug-24	846	50,743
Jul-04	382	3,638	Aug-25	652	51,395
Jul-05	282	3,920	Aug-26	495	51,890
Jul-06	236	4,156	Aug-27	492	52,382
Jul-07	274	4,430	Aug-28	202	52,584
Jul-08	132	4,562	Aug-29	192	52,776
Jul-09	132	4,694	Aug-30	408	53,184
Jul-10	648	5,342	Aug-31	324	53,508
Jul-11	1,014	6,356	Sep-01	342	53,850
Jul-12	1,646	8,002	Sep-02	288	54,138
Jul-13	1,188	9,190	Sep-03	288	54,426
Jul-14	318	9,508	Sep-04	300	54,726
Jul-15	3,584	13,092	Sep-05	Weir Removed	
Jul-16	2,946	16,038			
Jul-17	2,008	18,046			

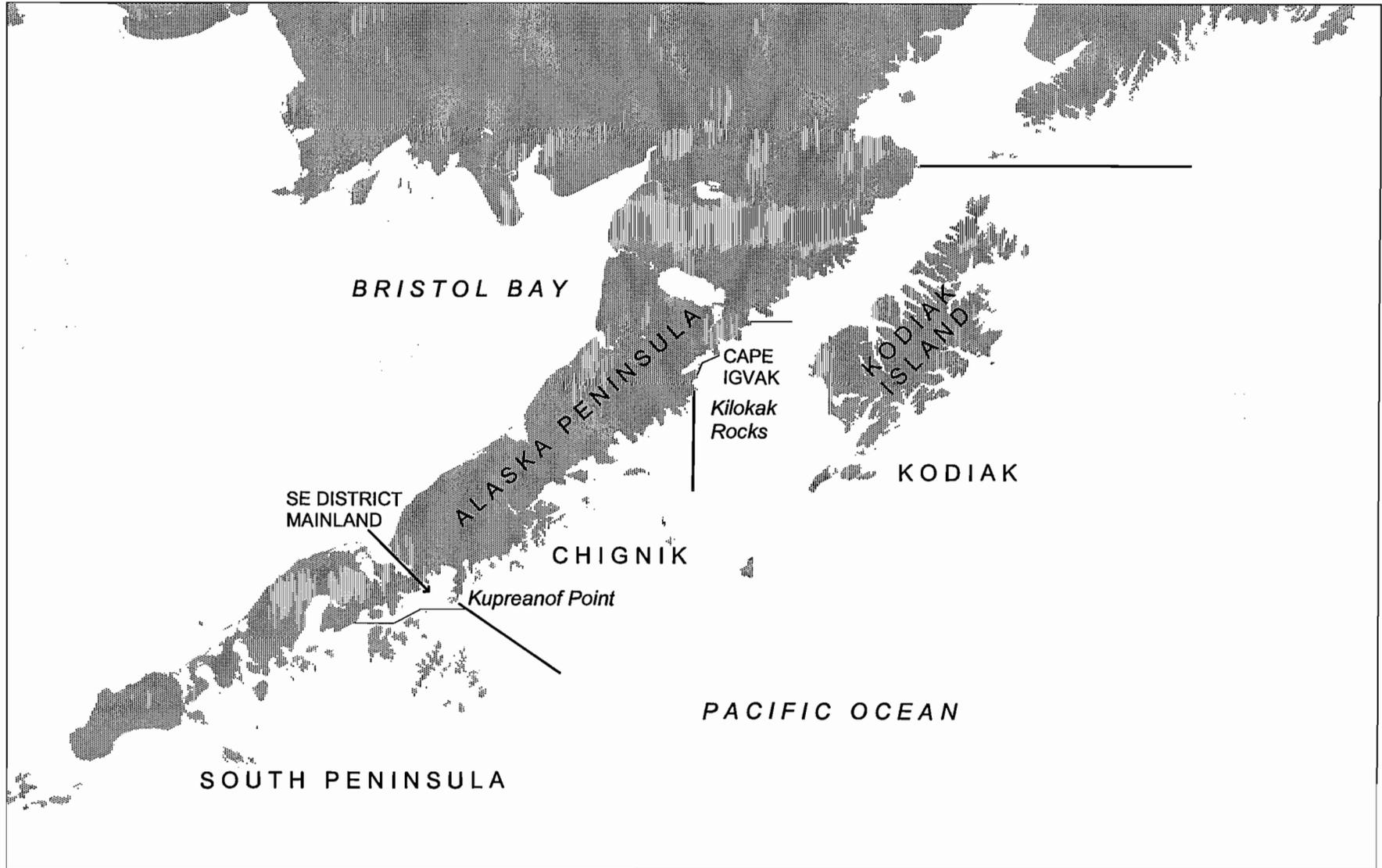


Figure 1. Map of the Alaska Peninsula illustrating the relative locations of the Chignik, Kodiak, and South Peninsula Management Areas.

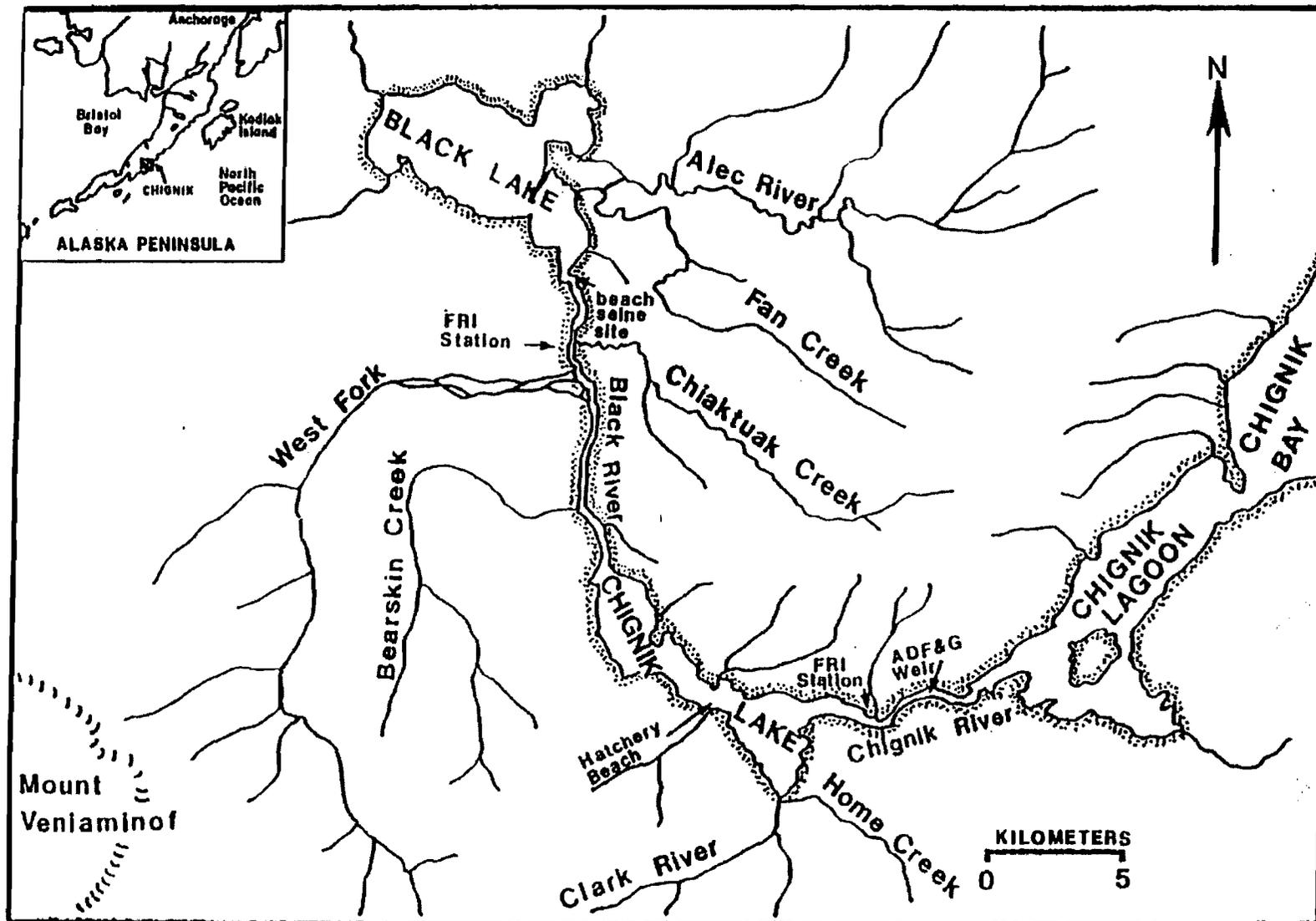


Figure 2. Map of the Chignik Lake watershed with inset of western Alaska.

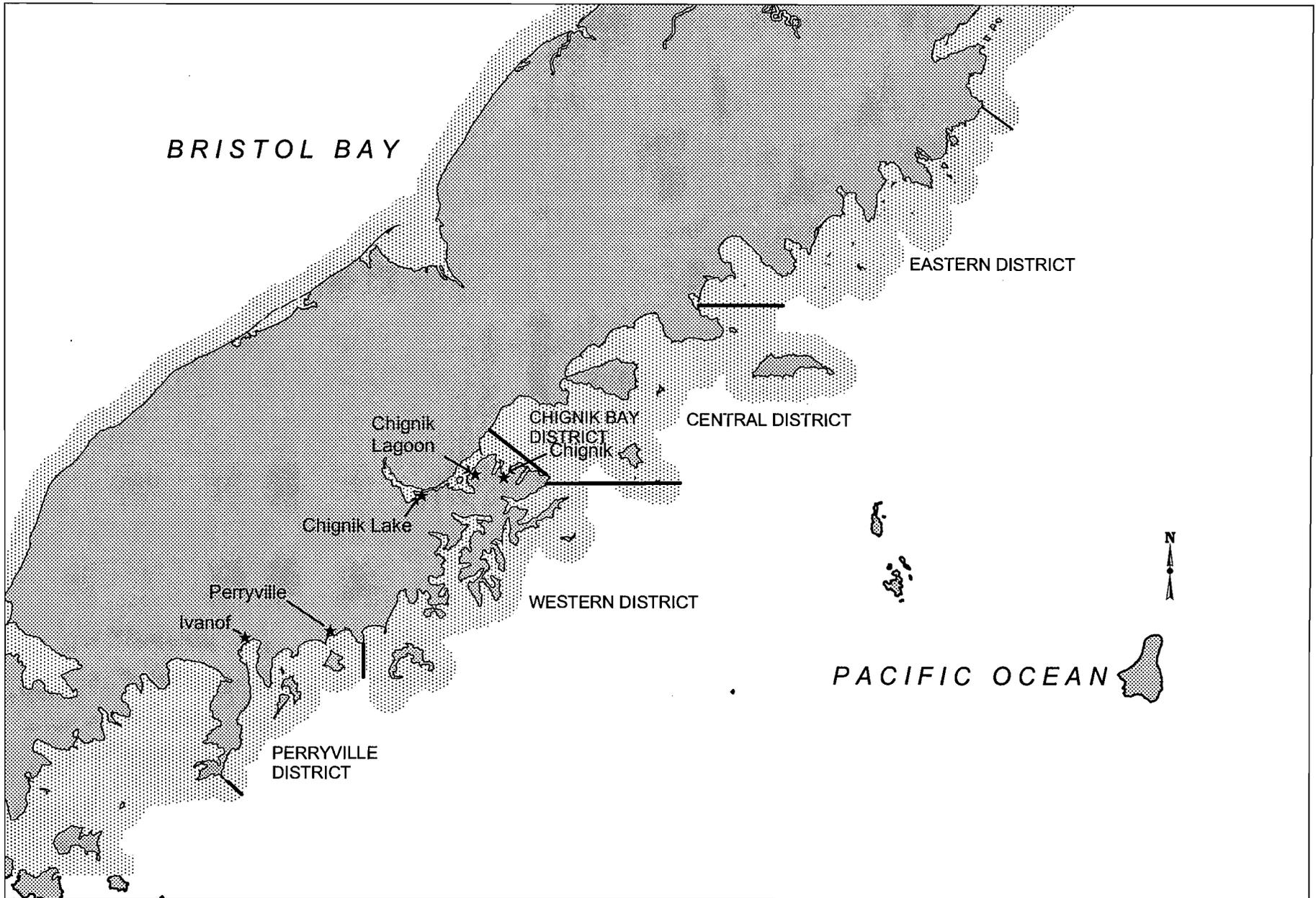


Figure 3. Map illustrating district boundaries and village locations within the Chignik Management Area.

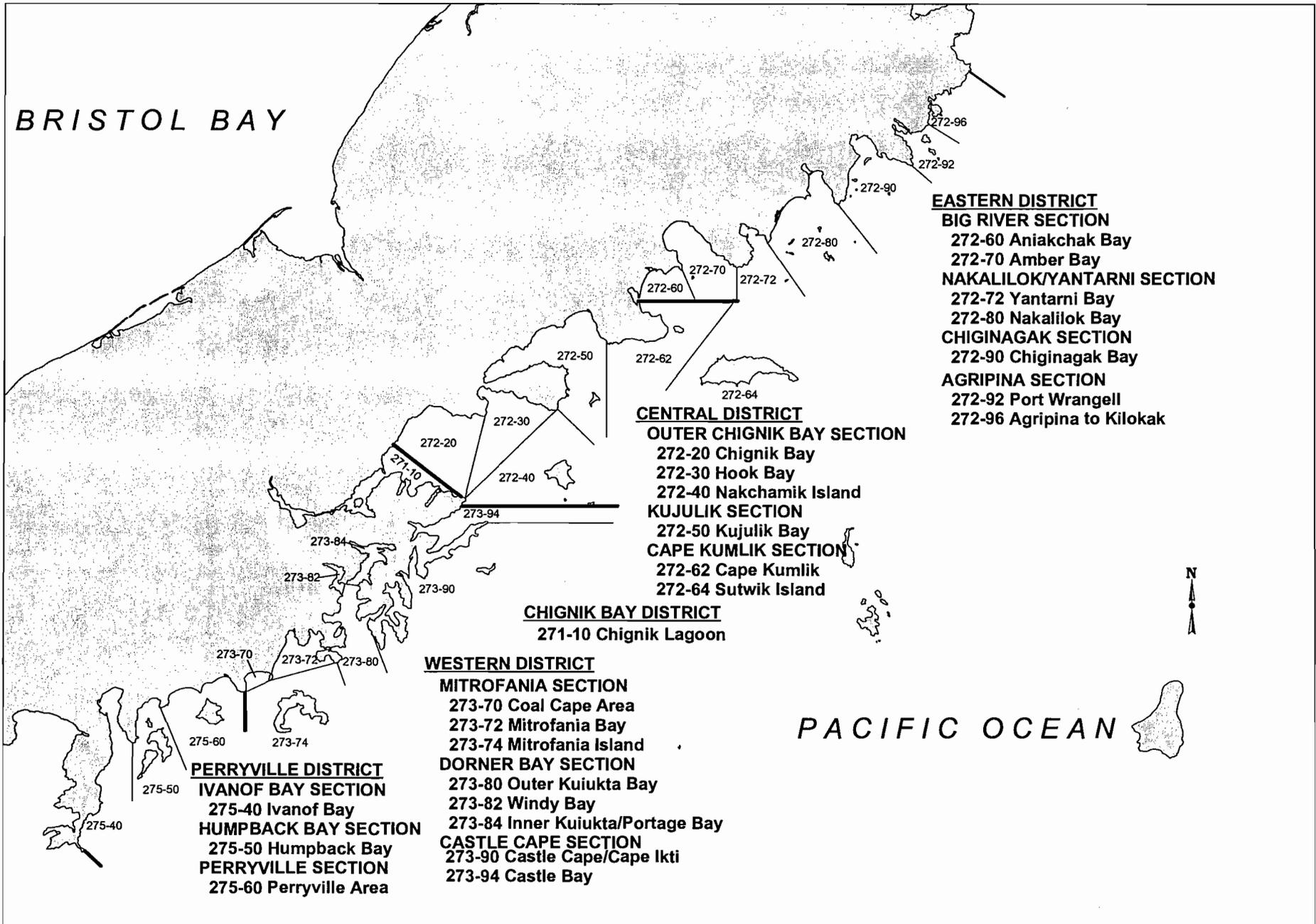


Figure 4. Map of Chignik Management Area illustrating district boundaries.

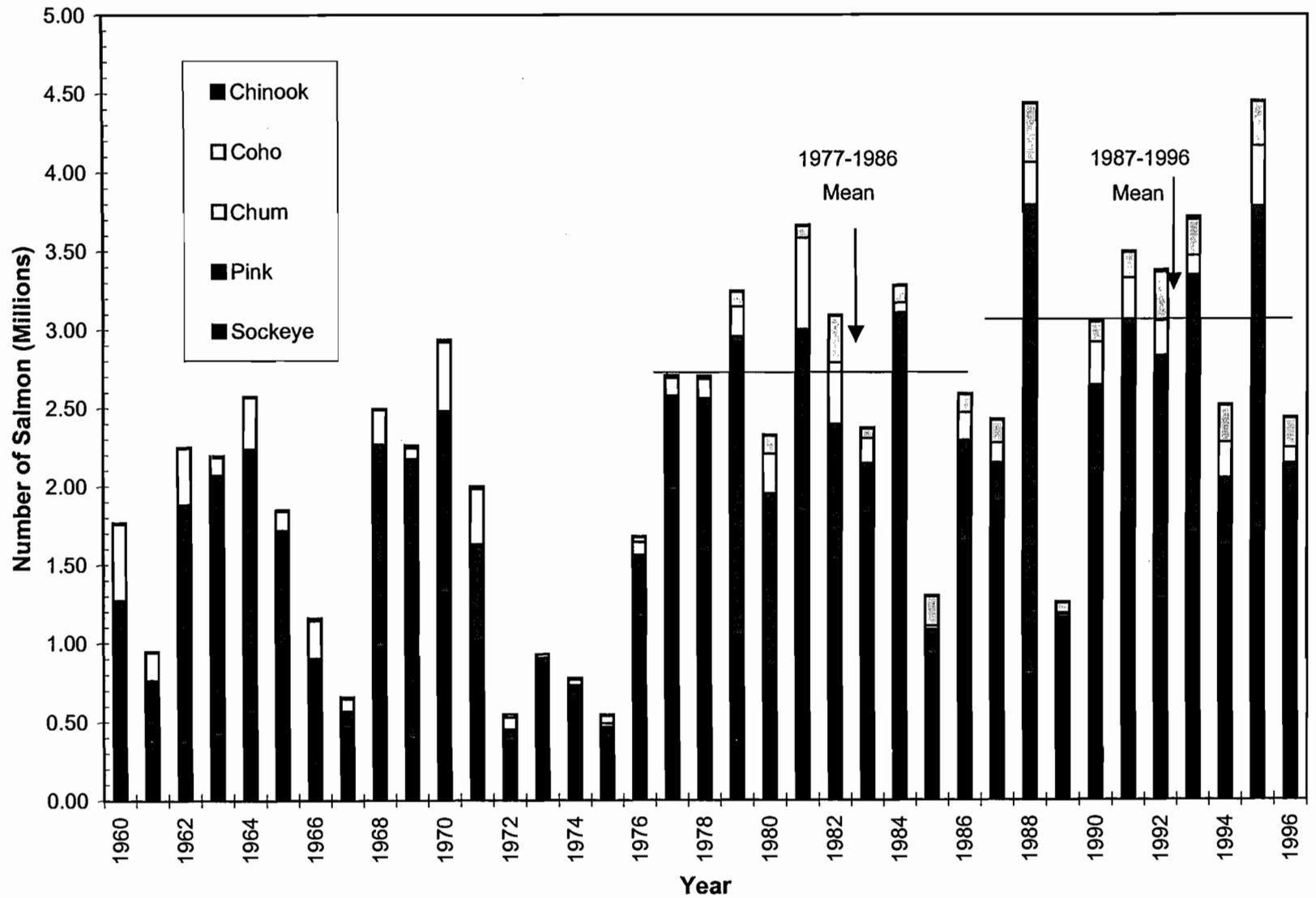


Figure 5. Total salmon harvests by species in the Chignik Management Area, 1960-1996.

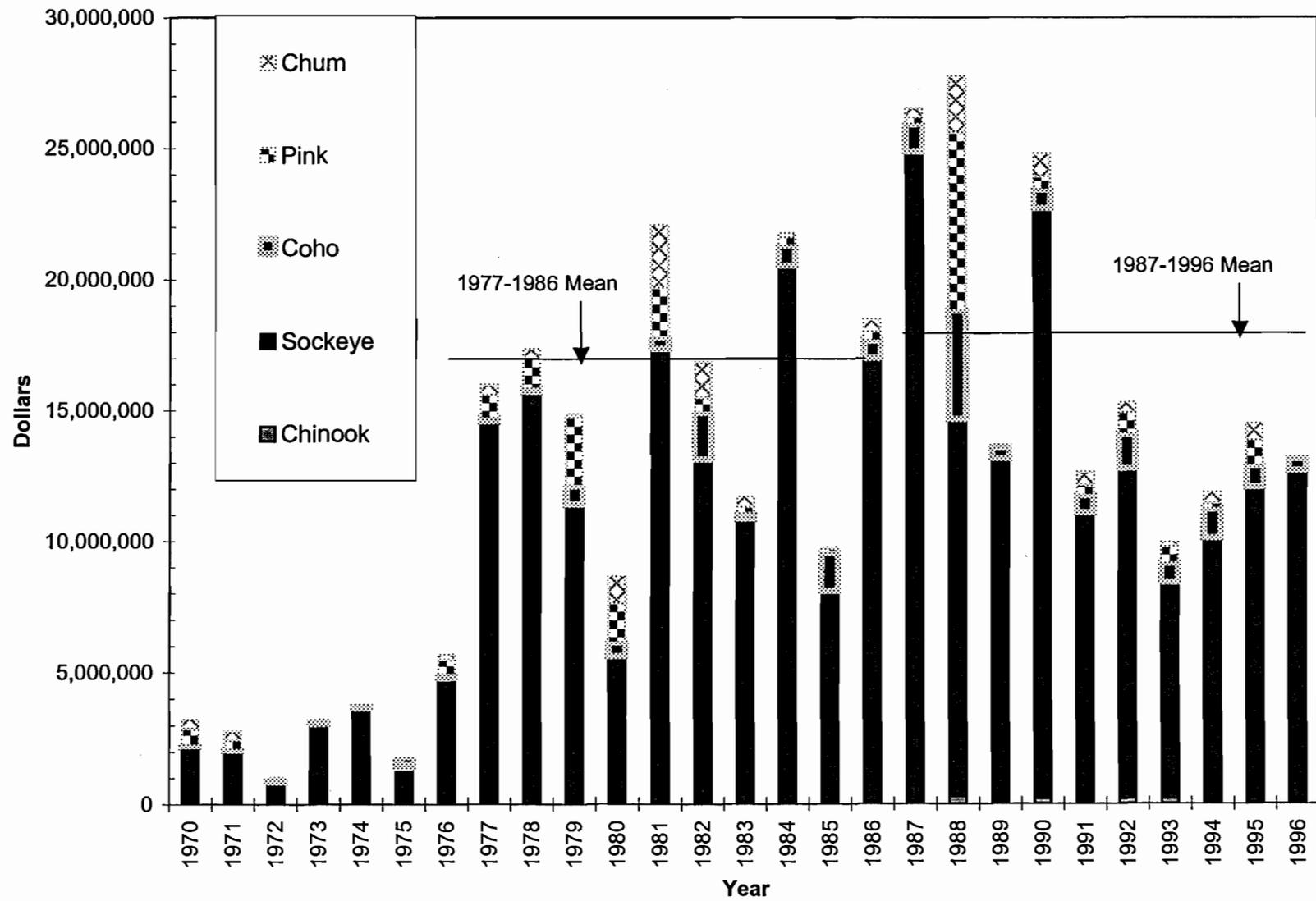


Figure 6. Exvessel value of the salmon harvest in the Chignik Management Area, 1970-1996.

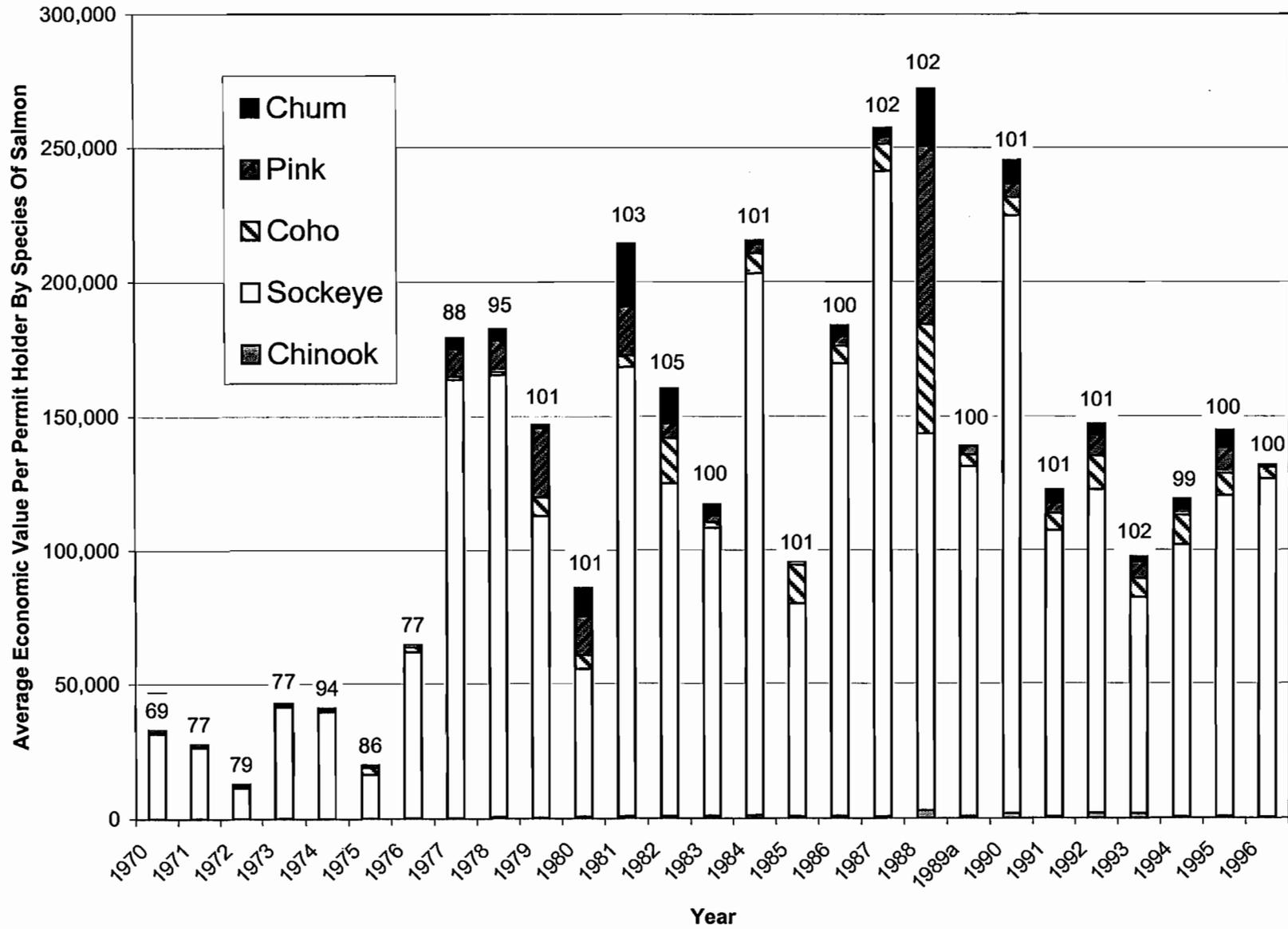


Figure 7. Average economic value of salmon per Chignik Management Area permit holder, 1970-1996. Number above the bar represents permits fished that year.

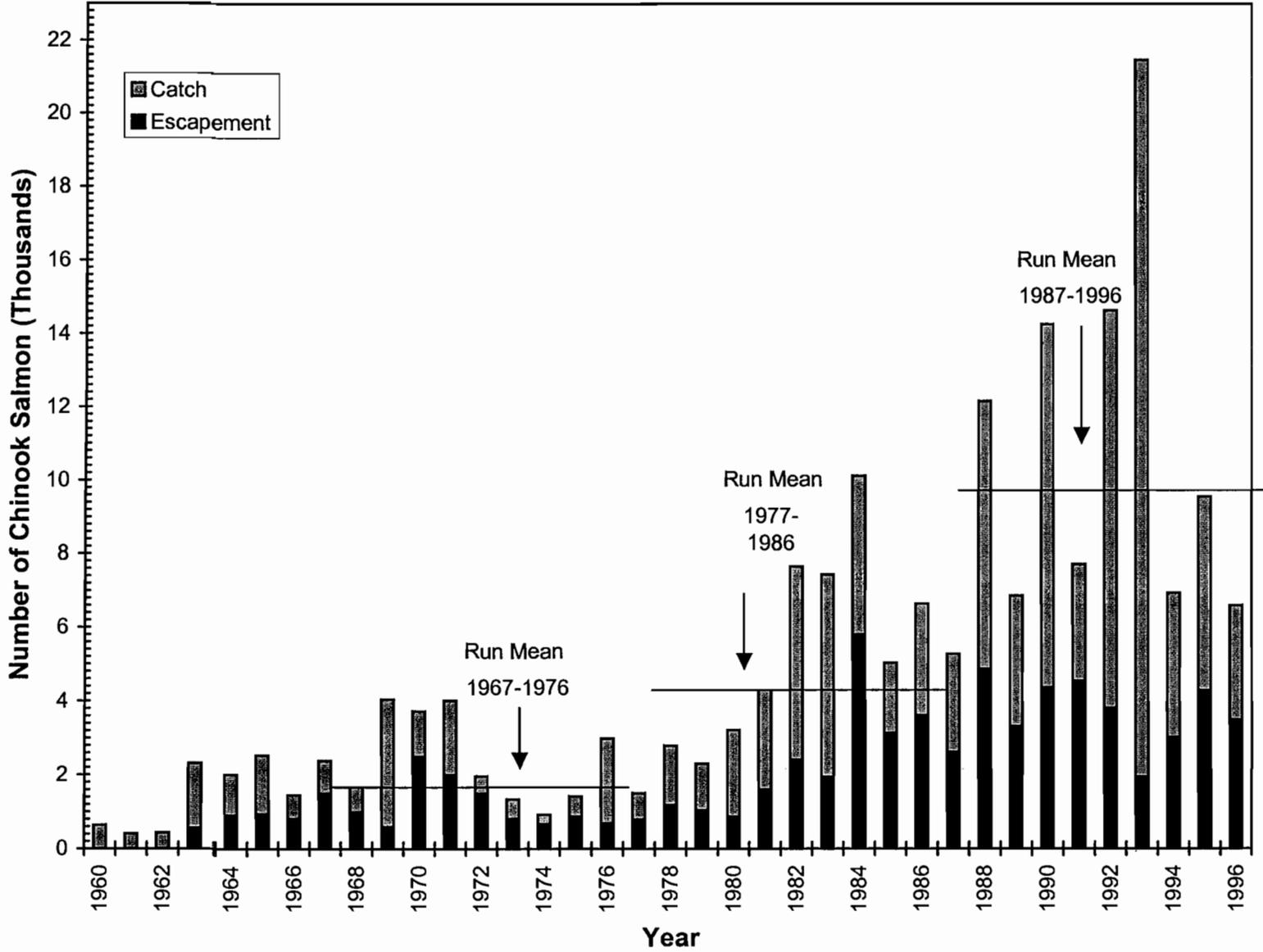


Figure 8. Chinook salmon catch and escapement in the Chignik Management Area, 1960-1996.

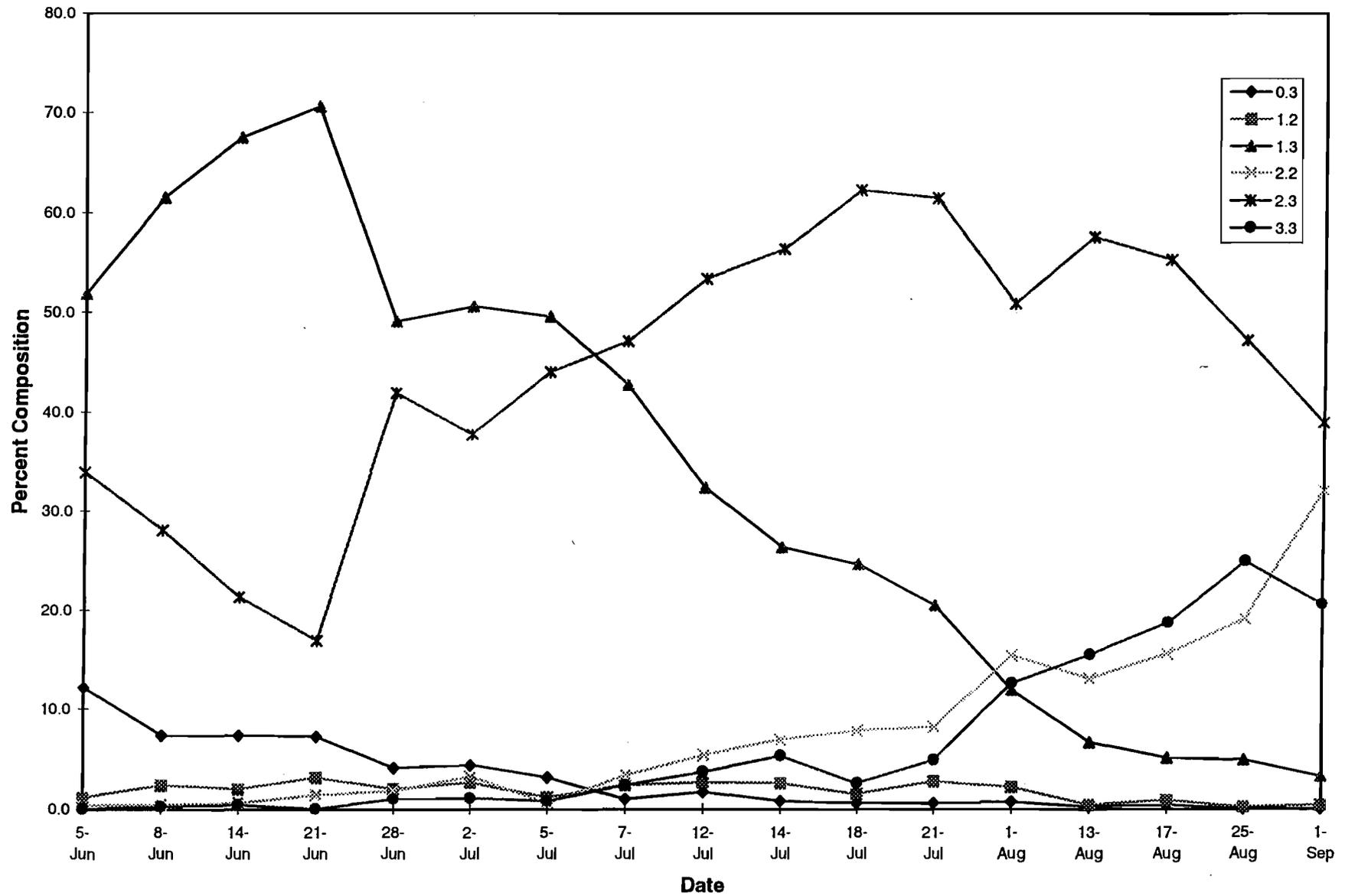


Figure 9. Age composition of sockeye salmon sampled in the Chignik Lagoon fishery, 1996.

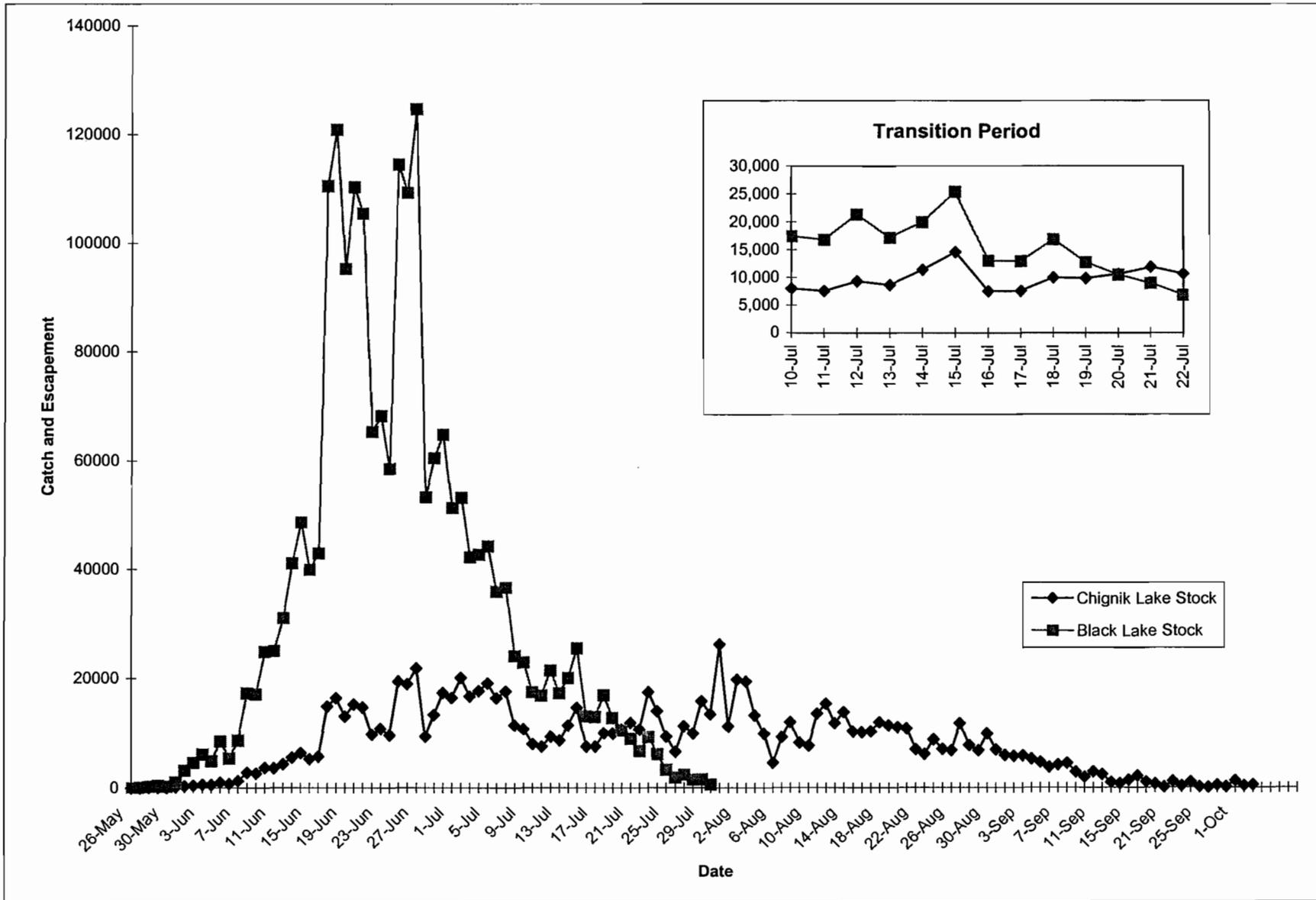


Figure 10. Daily sockeye salmon run by stock to the Chignik Lake system as estimated by scale pattern analysis, 1996.

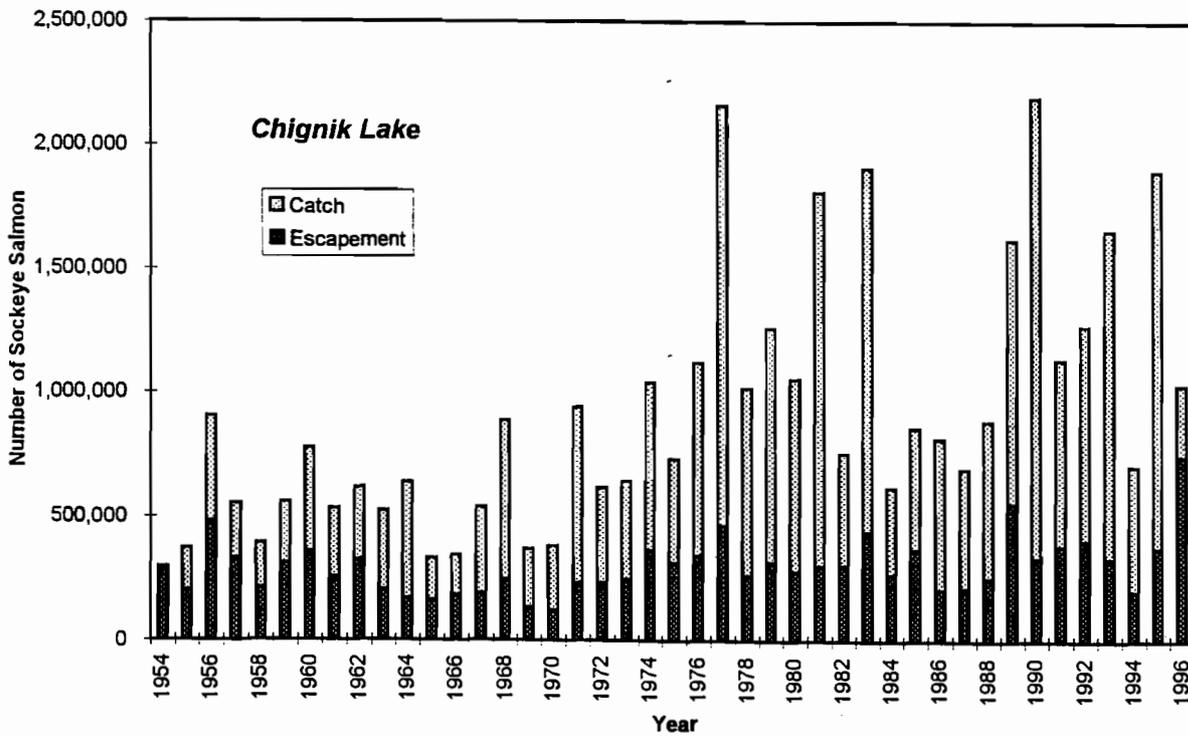
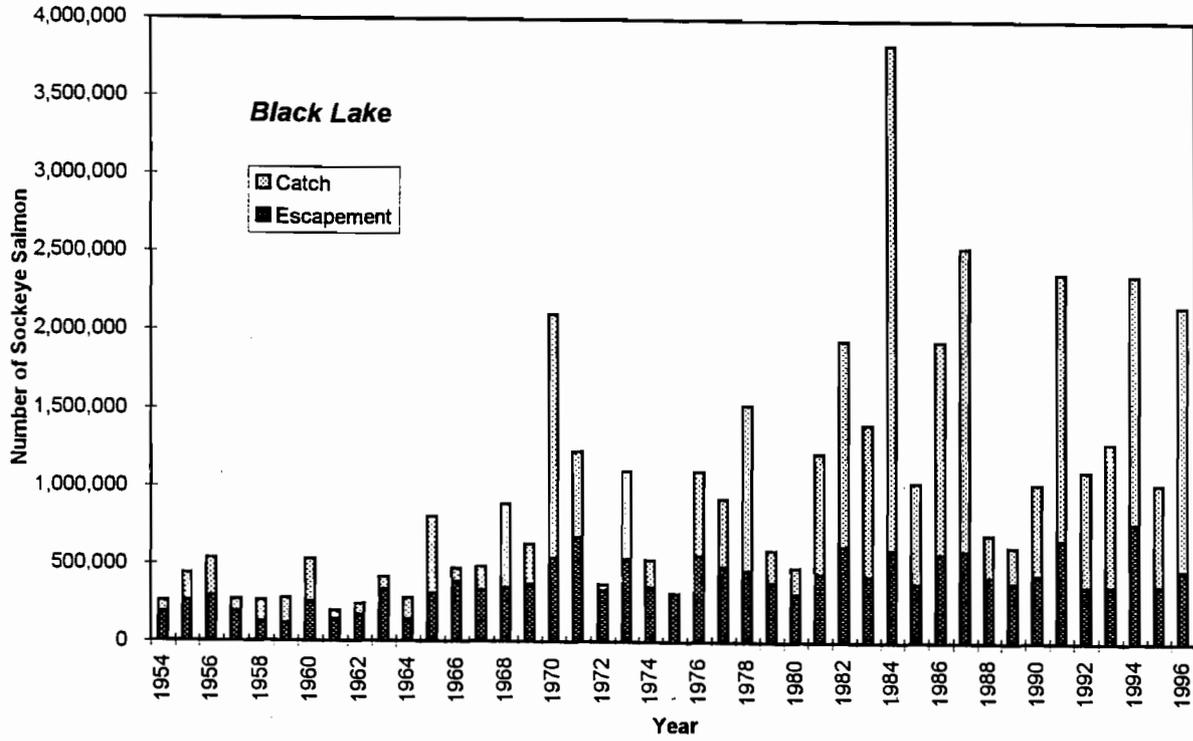


Figure 11. Black and Chignik Lake sockeye catch and escapement, 1954-1996.

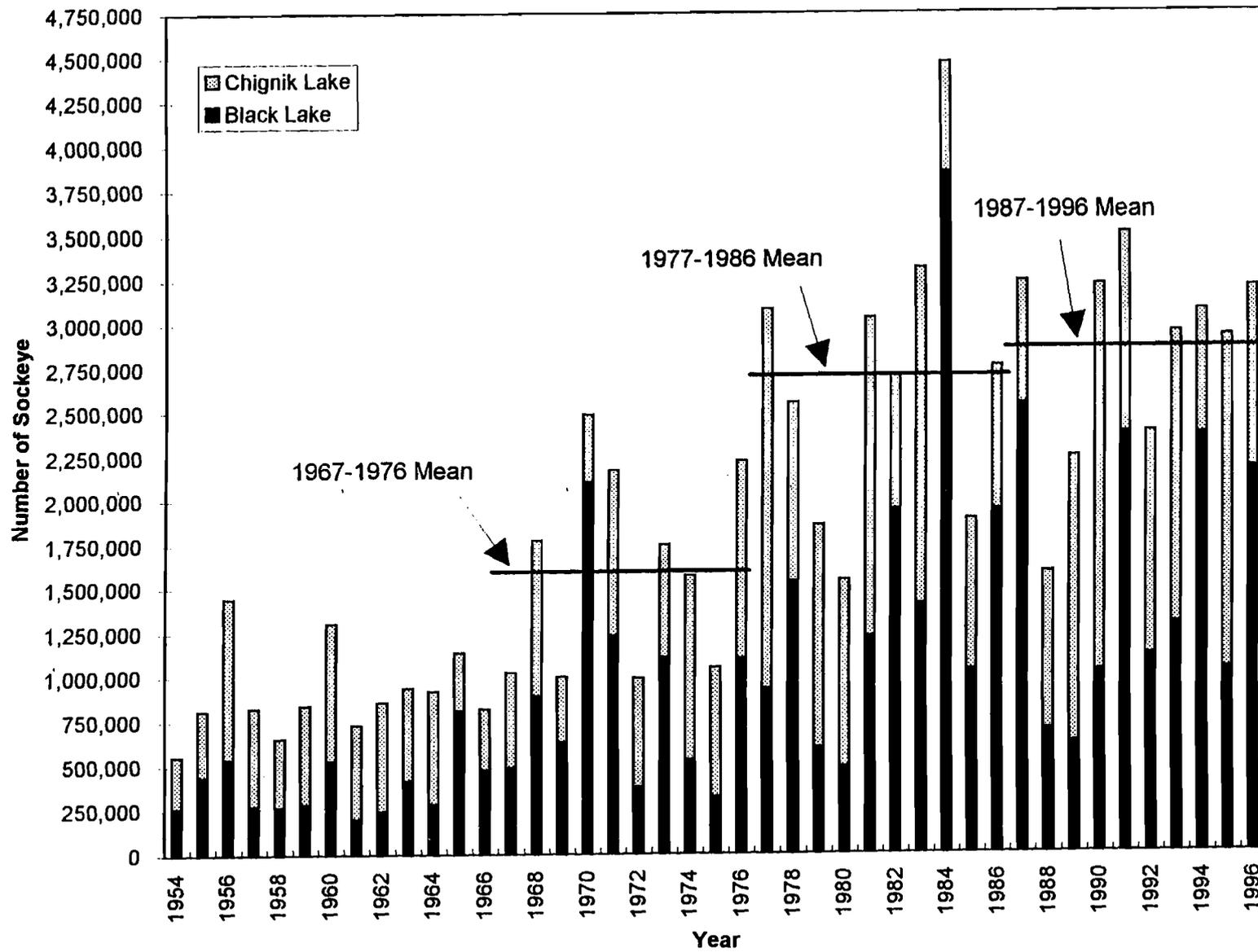


Figure 12. Total sockeye salmon runs to Black and Chignik Lakes, 1954-1996.

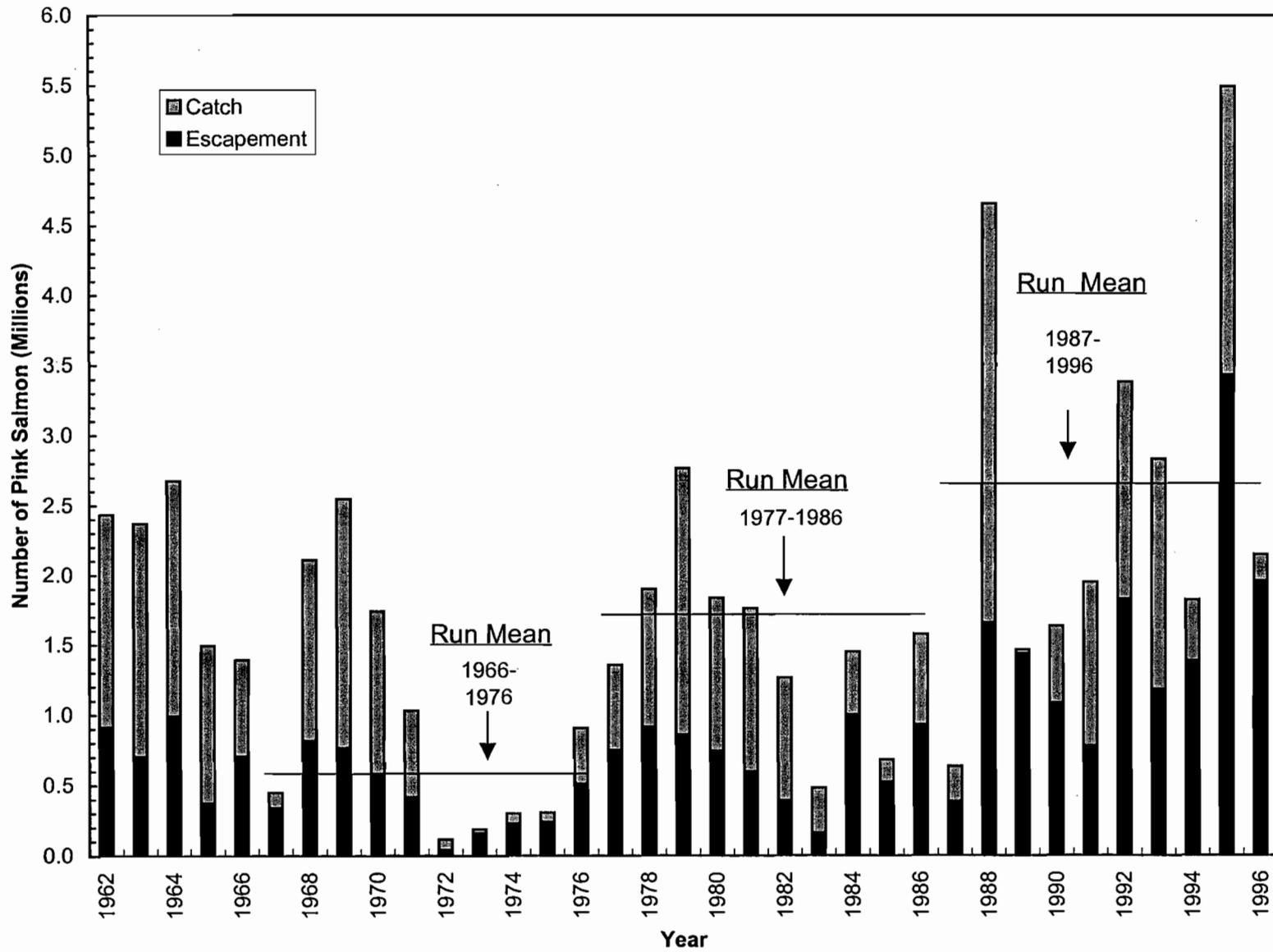


Figure 13. Pink salmon catch and escapement in the Chignik Management Area, 1962-1996.

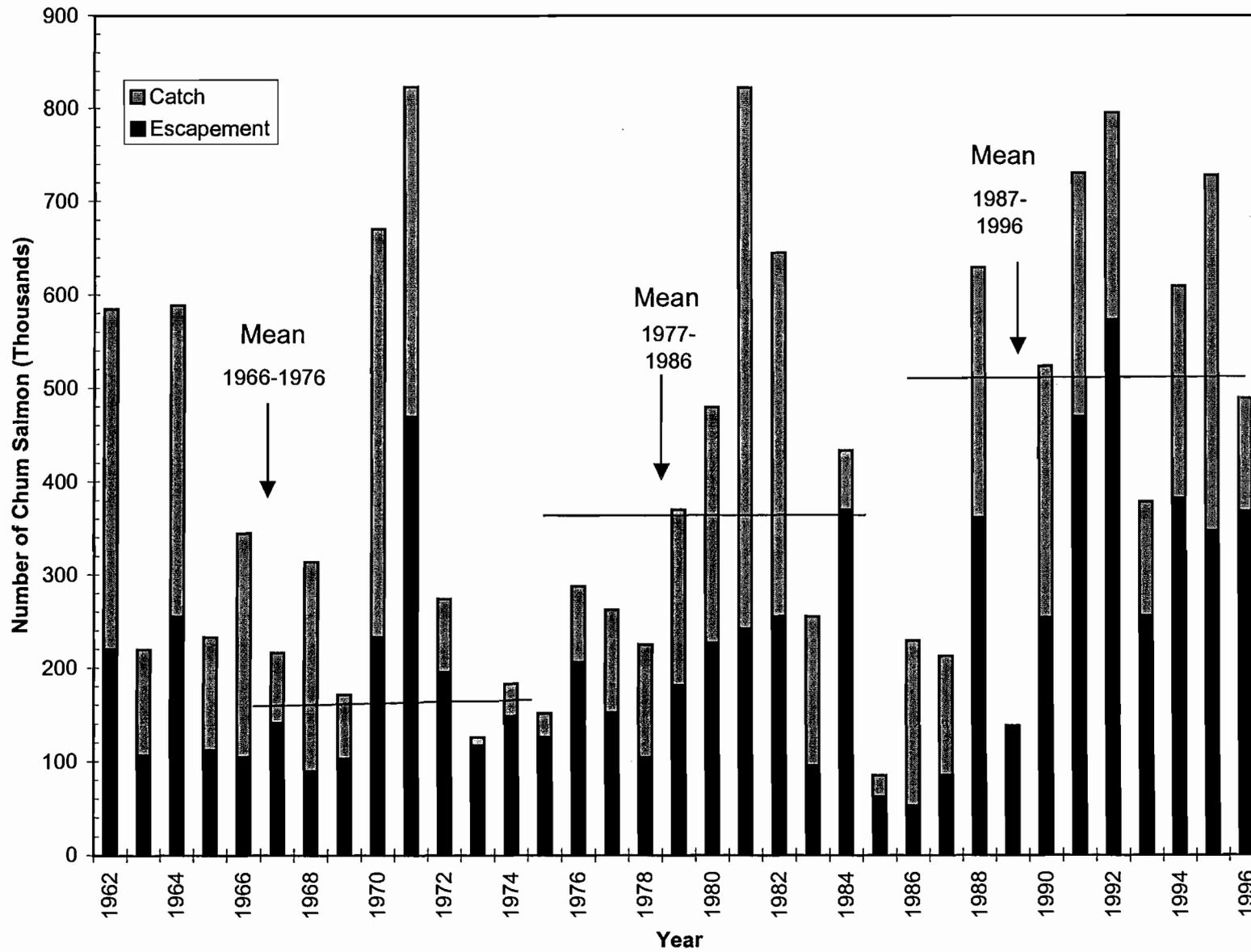


Figure 14. Chum salmon catch and escapement in the Chignik Management Area, 1962-1996.

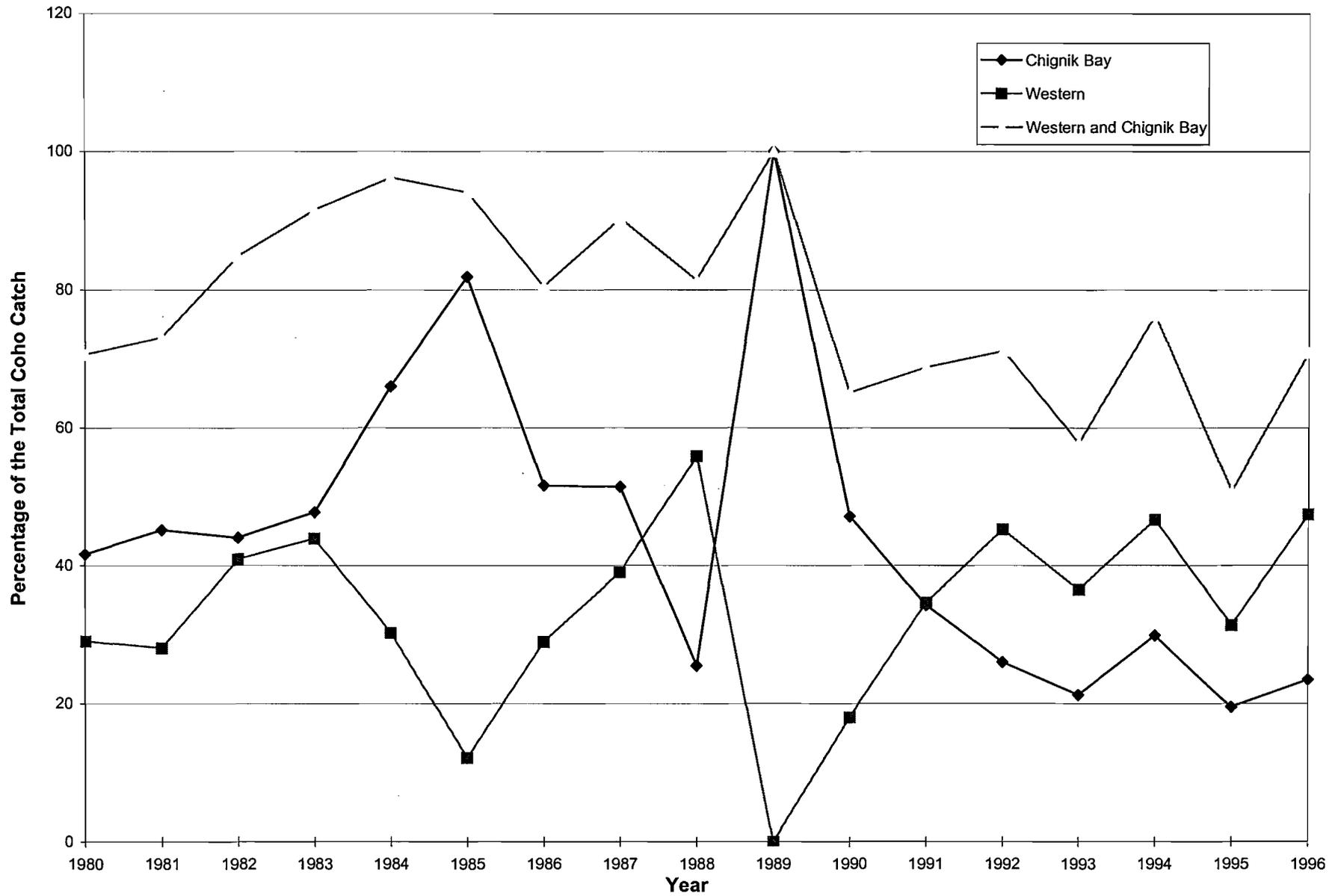


Figure 15. Percentage of the coho salmon caught in the Chignik Bay, Western, and Perryville Districts, 1980-1996.

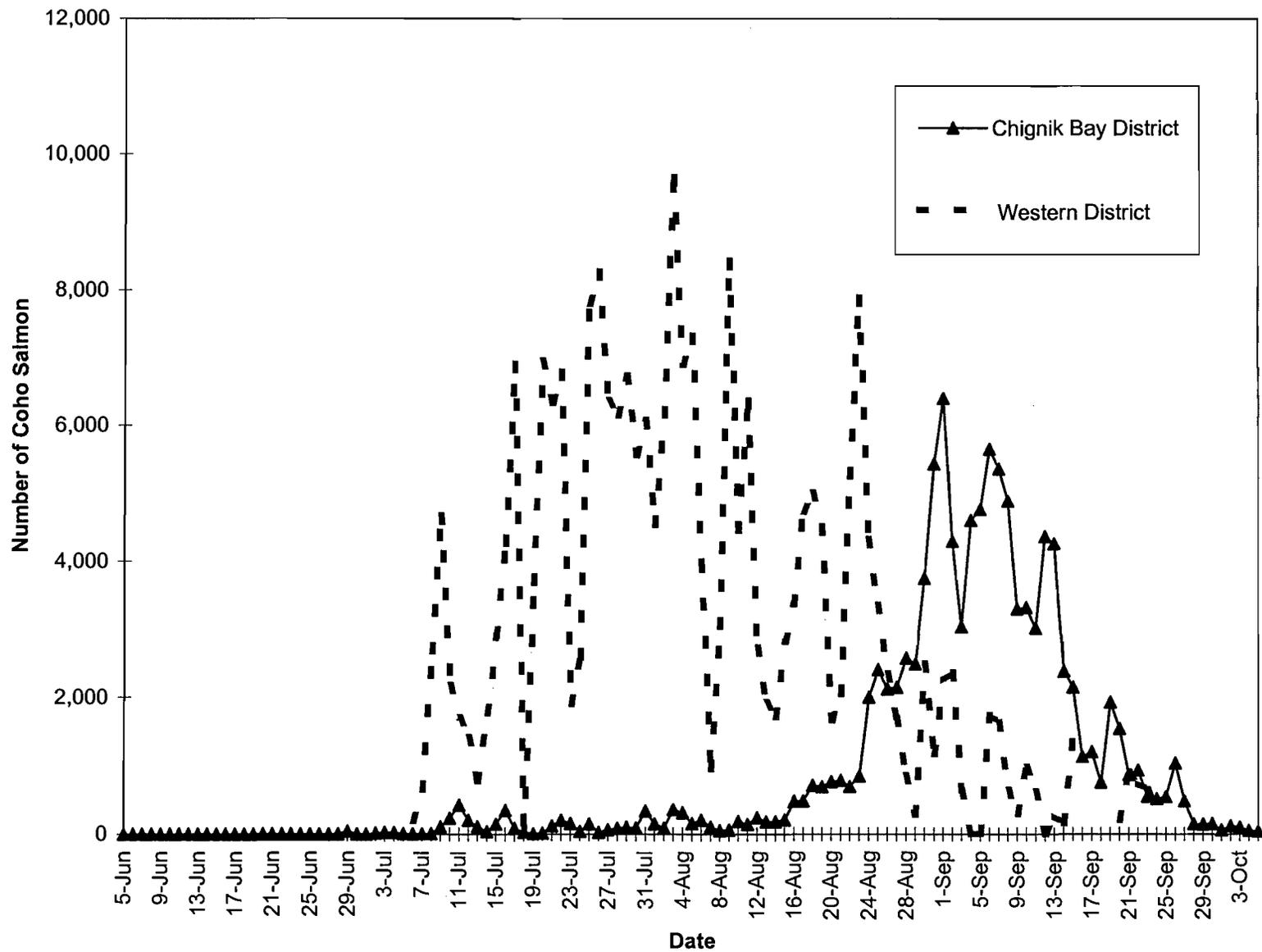


Figure 16. Average catch of coho salmon by day in the Western District as compared to the Chignik Bay District, 1987-1996.

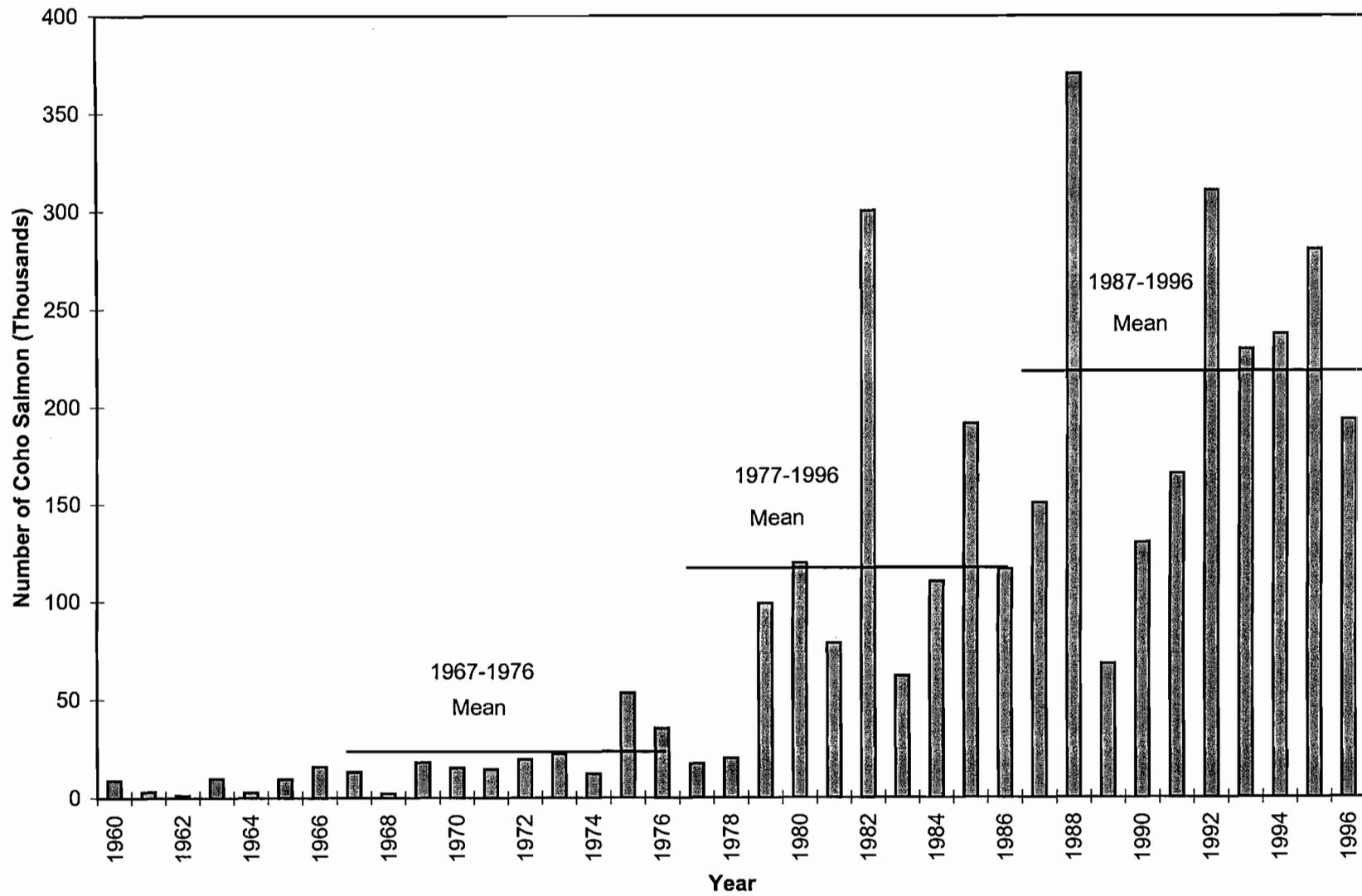


Figure 17. Coho salmon catches in the Chignik Management Area, 1960-1998.

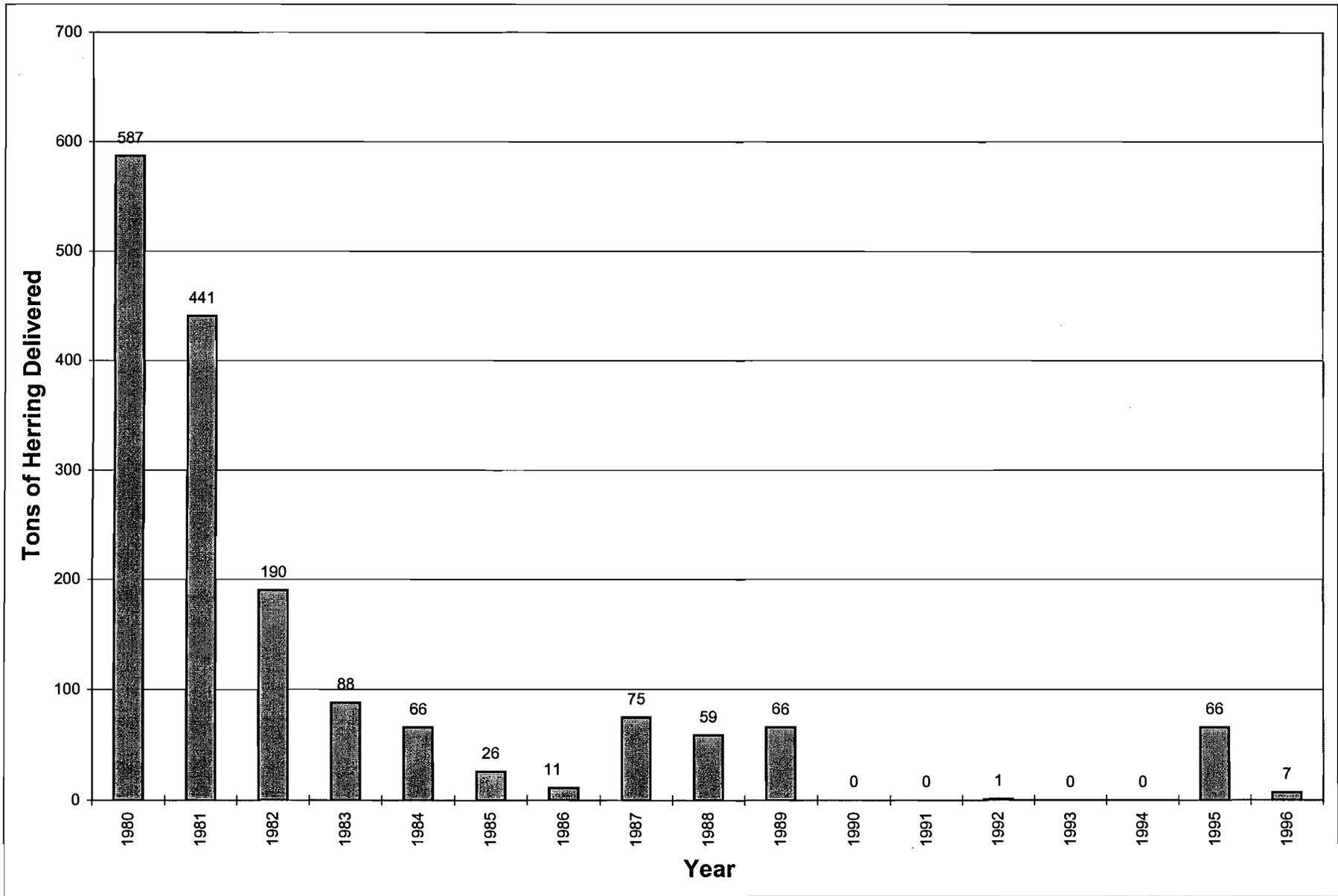


Figure 18. Sac roe herring harvests in the Chignik Management Area, 1980-1996.

APPENDIX

Appendix A.1. Chignik Management Area salmon forecasts, 1996.

FORECAST AREA: **Chignik Management Area**

SPECIES: **Sockeye salmon**

PRELIMINARY FORECAST OF THE 1996 RUN:

Forecast Estimate (thousands)	Forecast Range (thousands)	
TOTAL PRODUCTION:		
<i>Early Run (Black Lake)</i>		
Total Run	1,400	900-1,900
Escapement	400	
Commercial Common Property Harvest	1,000	
<i>Late Run (Chignik Lake)</i>		
Total Run	1,600	1,300-1,900
Escapement	250	
Commercial Common Property Harvest	1,350	
<i>Total Chignik Run</i>		
Total Run	3,000	2,200-3,800
Escapement	650	
Commercial Common Property Harvest	2,350	

FORECAST METHODS

The estimated run to Black Lake is the sum of a regression estimate (1966-1995) for two major age classes (ages 1.3 and 2.3) and the most recent 10-year average for minor age classes, while the Chignik Lake run is based on recruit per spawner relationships. The Black Lake forecast is based on the historical relationship between the number and length of prior year age-1.2 fish. All other age classes are predicted from a 10-year average. The Chignik Lake forecast accuracy has historically been quite variable, and developing a model such as the one used for the Black Lake run has been unsuccessful. The 1996 Chignik Lake run forecast was derived using post-1969 average return per spawner relationships for each year class.

-Continued-

DISCUSSION OF THE 1996 FORECAST

Early Run: The 1996 Black Lake sockeye salmon run is expected to be 1.4 million fish. This is approximately 0.1 million fish less than the 1985–94 average run of 1.5 million fish and .5 million fish less than the 1995 forecast. This sockeye salmon run is expected to be average, even though in 1995 age, 1.2 fish were about 12% less abundant than the most recent 10-year average.

Late Run: The estimated 1996 Chignik Lake sockeye run is 1.6 million fish, 0.4 million more than the 1985–94 average of 1.2 million fish. The Chignik Lake run forecast accuracy has historically been quite poor when compared to actual returns. For the 6-year-olds (age 2.3) which typically dominate the run, the parent year (1990) escapement is 335,867.

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Westward Biometrician
Kodiak

**Chignik Management Area
1996 Harvest Projections
(in thousands)**

Chinook ¹	Sockeye ²	Coho ³	Pink ⁴	Chum ⁵	Total
7	1,800	210	1,300	230	3,547

- ¹ Chinook harvest is dependent upon the amount of fishing time allowed for sockeye salmon in July; the harvest projection approximates a 10-year average.
- ² Estimate does not include the Cape Igyak and Southeast Mainland District intercept fisheries (22% allocation) which equates to approximately .5 million Chignik bound sockeye salmon through July 25.
- ³ Coho salmon harvest is related to the strength of the Chignik Lake sockeye run. Lagoon and outside catches are based on a 10-year harvest average.
- ⁴ In the Western/Perryville Districts the pink salmon forecast is computed by multiplying the average recruit per spawner for the previous ten years by the parent year escapement. For the Central/Eastern Districts the projection is based on the average of the run strength for the previous ten years. The largest pink catches should come from the Western/Perryville Districts and could account for 70% of the projected total. Unstable stream conditions in these districts have resulted in poor returns from excellent parent year escapements.
- ⁵ The chum salmon forecast is based on the average of the run strength since 1980. The Western/Perryville Districts should experience the largest proportion of the catch.

Appendix A.2. Comparison of Black Lake (early run) and Chignik Lake (late run) forecasts versus actual runs in millions of sockeye salmon, 1987-1996.

Year	Early Run			Late Run			Combined Total Run		
	Forecast	Actual	Percent Difference	Forecast	Actual	Percent Difference	Forecast	Actual	Percent Difference
1987	1.8	2.5	-38.9	1.3	0.7	46.2	3.1	3.2	-3.2
1988	1.4	0.7	50.0	0.8	0.9	-12.5	2.2	1.6	27.3
1989	1.2	0.6	50.0	1.0	1.6	-60.0	2.2	2.2	0.0
1990	0.8	1.0	-25.0	1.0	2.2	-120.0	1.8	3.2	-77.8
1991	2.8	2.4	14.3	1.1	1.1	0.0	3.9	3.5	7.7
1992	1.8	1.1	38.9	0.9	1.3	-44.4	2.7	2.4	11.1
1993	1.6	1.3	18.8	1.0	1.7	-70.0	2.6	3.0	-15.4
1994	1.8	2.4	-33.3	1.3	0.7	46.2	3.1	3.1	0.0
1995	1.9	1.0	47.4	0.9	1.9	-111.1	2.8	2.9	-3.6
1996	1.4	2.2	-57.1	1.6	1.0	37.5	3.0	3.2	-6.7

Appendix B.1. Total sockeye return to Black Lake by brood year and age, 1915 - 1996.

Year	Parent Escapement	Age Composition ^{a,b}													Total	Return/ Spawner
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other		
1915												1,202	1,202	0	2,404	
1916								9,315	68,559	37	15	0	0	0	77,926	
1917							318,491	20,666	576	18,747	0	0	0	0	358,480	
1918			0	12,960	0	43,803	6,984	0	49,097	0	0	138	0	112,982		
1919		0	0	15,073	0	92,073	28,499	16	74,062	30	0	324	0	210,077		
1920		0	0	63,251	0	422,288	28,279	0	111,422	6,511	0	273	0	632,024		
1921		0	0	122,550	0	258,628	113,493	5,873	255,927	0	0	0	0	756,471		
1922	86,421	0	0	40,685	0	659,040	56,121	0	202,612	2,465	1,222	1,669	0	963,814	11.2	
1923	4,642	0	0	18,213	0	172,343	53,445	2,677	132,776	410	436	59	0	380,359	81.9	
1924	121,983	0	0	85,083	0	1,206,555	8,855	426	19,931	939	384	384	0	1,322,557	10.8	
1925	386,364	0	0	1,529	0	54,164	9,924	384	50,707	937	17	0	0	117,662	0.3	
1926	289,009	0	0	7,544	420	104,094	45,572	11,714	352,025	7,117	0	1,708	0	530,194	1.8	
1927	857,881	0	0	99,929	66	2,375,878	85,253	721	107,239	165	3,699	4,234	0	2,677,184	3.1	
1928	507,353	0	0	23,860	0	304,338	49,284	9,848	428,369	2,755	409	2,118	0	820,981	1.6	
1929	995,832	0	0	9,910	0	918,487	58,777	5,626	60,214	865	144	144	0	1,054,167	1.1	
1930	92,955	0	0	23,769	0	286,339	13,886	6,663	43,297	3,527	4	0	0	377,485	4.1	
1931	96,201	0	0	33,685	943	923,763	46,710	28	122,389	0	655	58	0	1,128,231	11.7	
1932	2,151,734	0	0	50,602	0	191,354	36,823	10,350	43,060	291	8,584	234	0	341,298	0.2	
1933	223,913	0	0	62,079	0	247,818	7,609	138,675	164,540	0	625	54	0	621,400	2.8	
1934	866,890	0	0	16,228	4	1,583,632	6,057	9,886	40,971	276	1,299	113	0	1,658,466	1.9	
1935	194,636	0	10	68,710	0	235,971	7,188	20,562	85,058	572	1,508	130	0	419,709	2.2	
1936	548,039	0	0	15,422	3	490,061	14,873	23,865	98,553	661	2,346	201	0	645,985	1.2	
1937	205,613	0	9	32,001	7	567,984	17,179	37,146	153,156	1,026	960	82	0	809,550	3.9	
1938	175,972	0	19	37,059	7	882,938	26,618	15,193	62,552	418	706	60	0	1,025,570	5.8	
1939	1,142,852	0	22	57,563	12	360,712	10,840	11,171	45,926	307	2,470	209	0	489,232	0.4	
1940	176,307	0	35	23,499	5	264,904	7,938	39,130	160,651	1,070	7,513	634	0	505,379	2.9	
1941	374,420	0	14	17,246	3	926,890	27,697	119,048	488,137	3,247	1,196	101	0	1,583,579	4.2	
1942	442,981	0	11	60,302	12	2,817,023	83,954	18,948	77,598	515	684	58	0	3,059,105	6.9	
1943	701,859	0	36	183,156	37	447,919	13,315	10,839	44,522	297	499	38	0	700,658	1.0	
1944	291,844	0	111	29,106	6	256,848	7,683	7,947	31,664	203	482	43	0	334,093	1.1	
1945	217,882	0	18	16,715	3	183,734	5,143	7,619	31,784	216	275	27	0	245,534	1.1	
1946	774,130	0	10	11,775	2	182,835	5,644	4,307	18,686	133	707	64	0	224,163	0.3	
1947	2,386,733	0	7	11,988	2	106,718	3,550	11,150	46,809	320	525	43	0	181,112	0.1	
1948	384,637	0	7	7,129	1	268,953	8,407	8,346	33,877	223	352	0	0	327,295	0.9	
1949	213,269	0	4	17,688	4	195,878	5,713	0	89,095	0	0	152	0	308,534	1.4	
1950	206,270	0	11	12,671	3	287,407	12,644	1,862	76,722	648	373	286	0	392,627	1.9	

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	Parent Year Escapement	Age Composition ^{a,b}													Total	Return/ Spawner
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3	Other		
1951	125,126	0	8	0	46,798	0	448,360	3,404	2,319	124,345	0	455	0	0	625,689	5.0
1952	34,155	0	0	0	4,390	0	137,957	3,423	208	81,691	0	639	2,512	0	230,820	6.8
1953	168,375	0	0	0	1,024	32	154,589	17,848	1,625	180,887	252	0	1,350	0	357,607	2.1
1954	184,953	0	143	0	6,468	0	50,272	10,720	515	72,973	9	312	1,009	0	142,421	0.8
1955	256,757	0	783	0	30,302	0	430,793	3,476	339	88,693	109	0	0	0	554,495	2.2
1956	289,096	0	17	0	16,499	0	81,569	14,910	9	90,001	0	196	4,967	0	208,168	0.7
1957	192,479	0	0	0	6,559	161	117,979	10,507	52	210,686	3,641	21	906	0	350,512	1.8
1958	120,862	0	905	0	19,146	0	79,955	81,992	0	60,132	77	61	103	0	242,370	2.0
1959	112,226	0	1,522	0	31,039	142	148,403	13,872	402	144,581	874	58	54	0	340,947	3.0
1960	251,567	0	124	0	55,546	221	610,592	32,598	6,221	65,418	49	606	3,383	0	774,756	3.1
1961	140,714	0	276	0	14,301	1	387,053	3,483	536	164,278	486	1,020	209	0	571,645	4.1
1962	167,602	0	698	0	8,379	0	257,371	25,726	3,194	395,626	1,524	954	0	0	693,473	4.1
1963	332,536	0	0	0	29,538	173	448,298	17,628	905	199,104	0	2,506	551	0	698,703	2.1
1964	137,073	0	37	0	13,311	3,735	190,972	133,203	3,809	409,973	414	0	271	0	755,726	5.5
1965	307,192	0	394	0	102,570	421	1,535,858	80,851	3,332	201,220	271	497	22,731	0	1,948,144	6.3
1966	383,545	0	1,631	0	65,254	378	990,567	15,248	2,193	225,660	28	0	2,504	0	1,303,463	3.4
1967	328,000	0	2,728	0	16,157	163	99,357	6,078	13,406	96,629	1,537	0	0	0	236,054	0.7
1968	342,343	0	271	0	12,997	0	971,408	4,519	2,163	161,664	1,960	0	1,663	0	1,156,644	3.4
1969	366,589	0	0	0	12,747	153	279,429	63,258	1,313	84,120	486	0	2,251	0	443,757	1.2
1970	536,257	0	0	0	17,281	261	195,050	8,163	4,614	192,247	621	0	3,698	0	421,934	0.8
1971	671,668	0	569	0	22,138	0	800,515	67,483	3,873	454,039	385	264	6,763	0	1,356,029	2.0
1972	326,320	0	0	0	31,630	0	423,794	16,474	3,195	587,997	4,596	831	2,564	0	1,071,082	3.3
1973	533,047	0	0	0	19,627	0	753,970	121,231	0	324,538	1,425	511	1,812	0	1,223,113	2.3
1974	351,701	0	51	0	50,797	334	123,590	117,544	116	305,094	551	452	2,727	0	601,256	1.7
1975	308,914	0	0	0	19,977	1,826	71,732	55,434	1,010	447,233	1,057	396	34	2,437	601,137	1.9
1976	551,254	0	520	0	44,085	88	669,395	24,810	816	135,036	0	0	334	11,778	886,860	1.6
1977	482,247	0	102	0	59,211	389	1,687,898	12,701	6,990	337,281	0	3,492	1,655	44,852	2,154,571	4.5
1978	458,660	0	235	0	55,123	3,060	448,274	61,734	6,664	354,902	0	0	210	15,138	945,339	2.1
1979	385,694	0	1,241	0	533,050	671	3,195,846	57,155	4,133	68,046	223	422	805	1,350	3,862,941	10.0
1980	311,332	0	255	120,421	99,989	1,187	641,668	151,574	1,503	741,614	2,098	943	1,113	4,847	1,767,213	5.7
1981	438,540	0	532	0	155,923	1,112	938,072	75,567	4,289	664,383	510	1,112	259	2,819	1,844,578	4.2
1982	616,117	0	121	0	172,993	2,021	1,627,753	134,483	2,133	391,690	0	394	0	194	2,331,780	3.8
1983	426,177	0	0	19,136	79,674	3,905	209,772	37,475	285	211,457	2	3,596	0	466	565,767	1.3
1984	597,712	478	2,279	1,225	46,148	2,194	324,901	42,078	2,605	210,908	1,216	703	2,461	0	637,196	1.1
1985	377,516	156	501	510	36,677	638	376,202	73,568	20,665	249,837	1,091	1,202	9,240	3,500	773,787	2.0
1986	566,088	384	1,517	6,384	342,057	0	1,893,213	55,260	2,978	203,218	11,147	5,791	1,147	45	2,523,141	4.5

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Parent Year	Escapement	Age Composition ^{a,b}												Total	Return/ Spawner	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	1.4	2.3	3.2	2.4	3.3			Other
1987	589,291	2,325	0	961	145,616	1,027	727,158	75,666	8,944	433,856	2,904	6,072	31,613	745	1,436,887	2.4
1988	420,577	0	1,467	670	70,153	1,885	491,967	122,690	5,445	961,154	1,426	798	444	256	1,658,355	3.9
1989	384,004	32	4,416	5,832	213,429	2,749	1,035,809	143,882	4,145	268,597	1,258	2,248	21,375	1,452	1,705,224	4.4
1990	434,543	1,004	557	34,085	137,435	5,125	458,197	179,469	5,792	698,629	23			579	1,520,895	3.5
1991	657,511	720	520	1,823	108,526	333	1,222,609	45,707						851	1,381,089	
1992	360,681	1,830	446	114,896	52,665	2,593										
1993	364,263	2,900	104													
1994	766,909															
1995	366,163															
1996	464,750															

^aIncludes all escapement and catch including that from Southeastern District Mainland and Cape Igvak.

^bDoes not include personal use or other subsistence sockeye salmon.

Appendix B.2 Total sockeye return to Chignik Lake by brood year and age, 1915-1996.

Year	Parent Escapement	Age Composition ^{a,b}													Return/ Total Spawner	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3		Other
1915												4,514	4,514		9,028	
1916									11,874	690,450	9,120	2,007	0	0	713,451	
1917						339,637	149,163	0	296	274,036	0	0	0	0	763,132	
1918			0	44,358	0	201,318	195,611	0	0	999,888	0	2,948	2,966	0	1,447,089	
1919		0	0	0	100,404	2,425	243,024	286,119	0	2,492	423,094	8,270	0	5,828	1,071,656	
1920		0	0	0	148,914	0	435,826	137,704	0	2,509	300,319	20,713	0	1,567	1,047,552	
1921		0	0	0	101,251	0	216,728	278,711	0	4,085	193,620	2,245	955	3,396	800,991	
1922	352,807	0	0	0	43,667	0	382,956	73,351	0	0	991,979	14,972	2,886	4,175	1,513,986	4.3
1923	213,781	0	0	0	74,884	218	410,194	245,187	0	2,360	577,390	1,111	1,647	2,376	1,315,367	6.2
1924	910,521	0	0	0	126,685	1,819	1,003,422	8,350	0	1,115	102,217	5,830	425	55	1,249,918	1.4
1925	677,566	0	0	0	3,736	0	51,222	195,414	0	332	427,580	7,817	5,367	456	691,924	1.0
1926	695,314	0	0	0	25,764	919	279,018	304,619	273	3,461	879,220	3,821	55	2,246	1,499,396	2.2
1927	429,525	0	207	0	113,952	1,499	951,950	100,633	0	744	203,942	1,586	1,225	5,557	1,381,295	3.2
1928	1,020,520	0	0	0	40,063	0	353,506	77,224	0	12,047	300,603	3,129	1,042	1,618	789,232	0.8
1929	914,307	0	0	0	16,254	0	584,561	38,873	253	5,675	361,557	1,165	2,192	1,251	1,011,781	1.1
1930	359,405	0	0	0	26,688	0	426,128	41,867	0	6,177	344,419	16,565	2,065	0	863,909	2.4
1931	631,986	0	0	0	30,856	2,454	296,899	138,440	0	3,747	264,858	0	2,678	635	740,567	1.2
1932	1,113,859	0	0	0	24,809	0	475,759	46,764	0	8,530	185,288	2,049	13,674	1,502	758,375	0.7
1933	310,088	0	0	0	35,679	0	311,946	35,705	0	48,795	321,467	0	1,267	301	755,160	2.4
1934	447,642	0	0	0	19,716	90	708,212	33,934	0	4,066	88,027	969	4,299	1,026	860,339	1.9
1935	462,469	0	69	0	37,642	308	148,352	16,893	0	13,842	299,288	3,284	4,082	976	524,736	1.1
1936	376,838	0	0	0	9,342	43	504,624	57,326	0	13,186	284,707	3,117	9,326	2,233	883,904	2.3
1937	406,618	0	33	0	31,723	145	480,250	54,435	0	30,220	651,642	7,116	2,664	639	1,258,867	3.1
1938	305,827	0	111	0	30,143	137	1,099,657	124,382	0	8,660	186,504	2,032	1,128	270	1,453,024	4.8
1939	512,754	0	106	0	68,919	315	314,851	35,542	0	3,674	79,035	859	5,420	1,305	510,026	1.0
1940	152,957	0	244	0	19,705	90	133,474	15,039	0	17,705	380,481	4,130	10,049	2,422	583,339	3.8
1941	531,904	0	70	0	8,342	38	642,782	72,293	0	32,912	706,532	7,654	2,225	537	1,473,385	2.8
1942	516,621	0	30	0	40,124	183	1,194,007	134,060	0	7,305	156,659	1,695	4,662	1,112	1,539,837	3.0
1943	1,205,418	0	143	0	74,442	340	264,830	29,686	0	15,007	324,527	3,562	5,405	1,321	719,263	0.6
1944	351,212	0	266	0	16,492	75	547,139	62,179	0	18,110	385,087	4,101	2,886	711	1,037,046	3.0
1945	151,326	0	59	0	34,405	157	652,782	72,138	0	9,784	207,054	2,186	1,246	315	980,126	6.5
1946	739,884	0	121	0	40,246	183	351,541	38,531	0	4,401	91,579	937	1,531	371	529,441	0.7
1947	1,393,990	0	147	0	21,549	98	156,343	16,644	0	5,048	108,068	1,165	1,316	333	310,711	0.2
1948	313,319	0	80	0	9,390	42	182,792	20,430	0	4,658	96,858	989	826	0	316,065	1.0
1949	574,715	0	36	0	11,360	52	165,402	17,581	0	1,766	103,345	0	496	650	300,688	0.5
1950	861,070	0	41	0	9,924	45	199,966	31,411	0	2,206	245,826	407	2,903	1,820	494,549	0.6
1951	490,899	0	38	0	33,082	0	618,729	13,748	0	7,046	242,042	0	1,028	0	915,713	1.9
1952	260,540	0	0	0	22,213	0	258,747	30,836	0	986	229,563	0	3,932	8,403	554,680	2.1
1953	221,408	0	0	0	9,167	428	125,399	32,350	0	470	396,916	1,935	934	5,424	573,023	2.6
1954	277,912	0	547	0	2,848	0	39,658	75,361	0	771	418,442	804	1,661	5,069	545,161	2.0
1955	201,409	0	369	0	32,187	0	303,988	32,708	0	168	363,162	1,252	0	0	733,834	3.6
1956	483,024	0	1,330	0	12,515	0	106,327	36,113	0	435	221,169	0	1,349	4,781	384,019	0.8
1957	328,779	0	0	0	17,746	622	232,393	109,475	0	351	332,661	2,104	1,189	1,319	697,860	2.1

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Year	Parent Escapement	Age Composition ^{a,b}														Return/ Total Spawner	
		0.2	1.1	0.3	1.2	2.1	1.3	2.2	3.1	1.4	2.3	3.2	2.4	3.3	Other		
1958	212,594	0	1,459	0	50,630	0	23,204	139,797	0	0	418,960	980	93	432	0	635,555	3.0
1959	308,645	0	3,286	0	18,094	907	109,165	81,640	227	117	197,975	738	689	187	0	413,025	1.3
1960	357,230	0	146	0	24,446	491	122,278	8,273	0	1,314	210,884	141	1,618	12,824	0	382,415	1.1
1961	254,970	0	718	0	1,899	799	109,935	18,702	0	220	401,733	2,698	5,335	2,420	0	544,459	2.1
1962	324,860	0	123	0	4,312	0	44,074	69,811	0	998	692,188	1,074	1,109	0	0	813,689	2.5
1963	200,314	0	0	0	5,536	1,300	103,116	68,605	0	29	243,939	0	1,501	867	0	424,893	2.1
1964	166,625	0	88	0	6,607	4,550	24,880	65,639	0	700	138,282	943	205	6,114	0	248,008	1.5
1965	163,151	0	1,636	0	25,157	5,547	159,113	57,942	0	382	650,181	1,028	659	96,111	0	997,756	6.1
1966	183,525	0	1,715	0	14,517	925	300,759	30,263	0	461	413,807	2,453	0	18,073	0	782,974	4.3
1967	189,000	0	501	0	6,187	768	78,308	31,097	0	701	482,538	2,780	1,342	0	0	604,221	3.2
1968	244,836	0	914	0	3,835	0	115,840	20,435	339	636	583,517	15,603	2,691	30,092	0	773,902	3.2
1969	132,055	0	0	0	1,239	1,062	85,064	270,966	283	818	487,805	7,288	0	16,722	0	871,247	6.6
1970	119,952	0	0	0	18,234	12,035	27,646	151,089	0	1,318	461,271	12,205	0	19,870	0	703,668	5.9
1971	232,501	0	1,500	0	15,448	12,620	185,532	410,628	0	236	1,898,372	4,096	2,842	13,887	0	2,545,161	10.9
1972	231,270	0	0	0	30,087	2,445	120,639	96,178	0	98	718,493	30,779	267	3,698	0	1,002,684	4.3
1973	247,144	0	0	0	5,778	10,740	56,736	173,028	0	0	919,784	3,852	1,248	4,756	0	1,175,922	4.8
1974	364,612	0	4,420	0	19,284	2,764	105,493	196,981	0	51	677,611	2,036	2,316	9,262	2,703	1,022,921	2.8
1975	314,084	0	0	0	24,550	7,125	123,634	185,390	0	914	859,629	3,573	6,449	2,334	7,609	1,221,207	3.9
1976	341,828	0	1,103	0	59,255	807	775,826	94,346	0	2,484	499,554	0	3,117	10	5,083	1,441,585	4.2
1977	463,561	0	252	0	52,795	3,975	155,472	59,987	0	1,958	1,207,619	0	2,034	789	7,477	1,492,358	3.2
1978	263,009	0	422	0	16,755	5,822	259,993	318,606	0	686	278,532	490	1,752	176	239	883,473	3.4
1979	317,889	0	2,029	0	102,991	5,057	281,909	28,124	0	1,235	278,237	388	1,469	784	3,223	705,446	2.2
1980	279,729	0	1,794	8,287	13,217	6,060	156,838	320,949	0	632	448,135	3,096	830	1,070	1,189	962,097	3.4
1981	301,092	0	1,116	0	88,980	5,093	232,004	74,324	0	664	370,421	151	649	74	35	773,511	2.6
1982	305,193	0	2,542	0	51,480	3,199	194,469	108,490	0	740	582,904	160	1,383	0	301	945,668	3.1
1983	441,561	0	0	2,715	12,125	3,824	148,143	109,807	0	208	1,105,502	807	11,621	76	0	1,394,828	3.2
1984	268,496	120	914	552	30,409	10,724	150,188	324,007	0	2,480	1,638,859	1,743	9,695	7,155	597	2,177,443	8.1
1985	369,262	98	689	207	18,638	16,398	174,283	161,966	0	6,682	501,843	1,161	4,112	3,789	173	890,039	2.4
1986	207,231	103	2,745	13,060	179,104	321	345,786	175,958	0	1,834	497,777	7,787	12,896	2,149	619	1,240,139	6.0
1987	214,452	6,253	686	1,066	72,172	9,757	457,744	225,494	0	6,045	1,037,042	6,866	7,292	71,800	125	1,902,342	8.9
1988	255,180	0	2,430	1,115	57,578	3,326	295,438	109,596	0	2,118	206,346	4,081	10,594	8,802	1,268	702,692	2.8
1989	557,171	418	7,979	9,244	171,035	4,773	273,461	105,477	0	3,988	1,202,092	7,408	11,544	88,753	320	1,886,492	3.4
1990	335,867	447	442	6,049	26,006	1,321	366,364	186,817	0	1,947	463,728	1,800			890	1,055,811	3.1
1991	382,587	134	201	1,008	105,106	1,934	297,675	109,027	0								
1992	405,922	628	1,107	22,469	18,620	12,535											
1993	333,114	474	500														
1994	197,445																
1995	373,757																
1996	284387																

^aIncludes all escapement and catch including that from Southeastern District Mainland and Cape Igvak.

^bDoes not include personal use or other subsistence sockeye salmon.

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Appendix C. Chignik River system sockeye salmon escapement goals for the **early run** (primarily Black Lake) and the **late run** (primarily Chignik Lake) by time period.

The numbers of fish presented in the escapement tables below were derived from averages over several years of escap

Early Run-400,000 Escapement		
Date	Lower	Upper
June 12		40000
June 14	50,000 -	65000
June 16	75,000 -	100,000
June 18	125,000 -	150,000
June 20	175,000 -	200,000
June 22	225,000 -	250,000
June 25	275,000 -	325,000
June 30	350,000 -	400,000

Late Run-250,000 Escapement to August 31		
Date	Early Escapement Is Achieved	Early Escapement Is Not Achieved
July 6		40000
July 8		45,000 - 50000
July 10	- 40000	55,000 - 65000
July 12	50,000 - 60000	70,000 - 75000
July 14	65,000 - 75000	75,000 - 80000
July 16	80,000 - 90000	80,000 - 90000
July 19	100,000 - 115,000	100,000 - 115,000
July 21	125,000 - 135,000	125,000 - 135,000
July 23	145,000 - 160,000	150,000 - 160,000
July 26	170,000 - 180,000	170,000 - 180,000
July 29	185,000 - 195,000	190,000 - 195,000
July 31	195,000 - 200,000	195,000 - 200,000
August 31	200,000 - 250,000	200,000 - 250,000

Appendix D.1. List of management actions (emergency orders), dates of actions, duration of actions, and districts in which actions occurred for the Chignik Management Area, 1996.

Action	Management Dates of Action	Duration of Action (Hrs)	District(s) In Which Management Action Was Warranted
Open	June 10-11	24	Chignik Bay, Central, and Eastern Districts
Extend	June 11-12	24	Chignik Bay, Central, and Eastern Districts
Extend	June 12-13	27.5	Chignik Bay, Central, and Eastern Districts
Extend	June 13-14	24	Chignik Bay, Central, and Eastern Districts
Extend	June 14-15	24	Chignik Bay, Central, and Eastern Districts
Closed			
Open	June 17-18	24	Chignik Bay, Central, and Eastern Districts
Extend	June 18-19	24	Chignik Bay, Central, and Eastern Districts
Extend	June 19-20	26	Chignik Bay, Central, and Eastern Districts
Closed			
Open	June 22-24	48	Chignik Bay, Central, and Eastern Districts
Closed			
Open	June-27	24	Chignik Bay, Central, and Eastern Districts
Extend	June 28-29	24	Chignik Bay, Central, and Eastern Districts
Extend	June 29-July 1	48	Chignik Bay and Central District
		36	Eastern District
Extend	July 1-3	54	Chignik Bay and Central Districts
Extend	July 3-5	50	Chignik Bay and Central Districts
Extend	July 5-7	48	Chignik Bay and Central Districts
Extend	July 7-8	26	Chignik Bay and Central Districts
Extend	July 8-9	24	Chignik Bay and Central Districts
Closed			
Open	July 12-14	48	Chignik Bay and Central Districts
Extend	July 14-15	24	Chignik Bay and Central Districts
Closed			
Open	July 18-20	48	Chignik Bay and Central Districts
Extend	July 20-21	24	Chignik Bay and Central Districts
Open	July 19-21	48	Perryville District
Extend	July 21-22	24	Perryville District
Closed			
Open	July 30-August 3	96	Chignik Bay and Central District
Extend	August 3-5	48	Chignik Bay and Central District
Open	July 31-August 4	96	Mitrofanina and Dorner Bay Sections of the Western District
Extend	August 4-6	48	Mitrofanina and Dorner Bay Sections of the Western District
Open	July 31-August 2	48	Perryville District
Extend	August 2-3	24	Perryville District
Extend	August 3-6	72	Perryville District
Closed			

-Continued-

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Action	Management Dates of Action	Duration of Action (Hrs)	District(s) In Which Management Action Was Warranted
Closed			
Open	August 9-13	96	Chignik Bay and Central Districts
Open	August 10-13	72	Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District
Open	August 10-11	24	Castle Cape Stat Area
Extend	August 11-12	24	Castle Cape Stat Area
Extend	August 12-13	24	Castle Cape Stat Area
Closed			
Open	August 15-19	96	Chignik Bay and Central Districts
Extend	August 19-21	48	Chignik Bay and Central Districts
Open	August 16-20	96	Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District
Extend	August 20-22	48	
Closed			
Open	August 24-28	96	Chignik Bay, Central, Western, and Perryville District
Closed			
Open	August 30-September 3	96	Chignik Bay and Central Districts
Open	August 31-September 4	96	Western and Perryville Districts
Closed			
Open	September 7-11	96	Chignik Bay, Central, Eastern, Western, and Perryville Districts
Closed			
Open	September 14-16	36 at 12hrs/dy	Chignik Bay, Central, Eastern, Western, and Perryville Districts
Closed			
	Sept 21 Closed for 1996 Salmon Season		All districts in the Chignik Management Area

Appendix D.2. Emergency orders for the Chignik Management Area, 1996.

EMERGENCY ORDER NO. 4-F-L-01-96

Issued at: Kodiak, AK
April 10, 1996

EFFECTIVE DATE: 12:00 Noon
Saturday, April 15, 1996

Expiration Date: June 30, 1996 unless
superseded by a subsequent
emergency order

EXPLANATION:

This emergency order establishes the Chignik Management Area commercial herring fishing periods during the sac roe season, April 15 through June 30. Beginning April 15, the fishery will open for 24-hour fishing periods, each of which begins at 12:00 noon on the odd numbered days of the month and closes at 12:00 noon on the even days of the month. Each 24-hour opening will be separated by a 24-hour closure for the entire management area. The only exception to this "24-hour on - 24-hour off" rule is the period from 12:00 noon June 1 through noon June 3 when the fishery will actually be closed for a 48-hour period due to the occurrence of two consecutive odd numbered days, May 31 and June 1.

REGULATION:

5 AAC 27.560 and 5 AAC 27.580 are amended to read:

5 AAC 27.560. FISHING SEASONS AND WEEKLY FISHING PERIODS.

(b) During the established fishing season from April 15 through June 30, herring may be taken during 24-hour fishing periods in the Chignik Management Area except as noted in 5 ACC27.580 as follows.

- (1) From 12:00 noon April 15 through 12:00 noon April 16.
- (2) From 12:00 noon April 17 through 12:00 noon April 18.
- (3) From 12:00 noon April 19 through 12:00 noon April 20.
- (4) From 12:00 noon April 21 through 12:00 noon April 22.
- (5) From 12:00 noon April 23 through 12:00 noon April 24.
- (6) From 12:00 noon April 25 through 12:00 noon April 26.
- (7) From 12:00 noon April 27 through 12:00 noon April 28.
- (8) From 12:00 noon April 29 through 12:00 noon April 30.
- (9) From 12:00 noon May 1 through 12:00 noon May 2.
- (10) From 12:00 noon May 3 through 12:00 noon May 4.
- (11) From 12:00 noon May 5 through 12:00 noon May 6

-Continued-

- (12) From 12:00 noon May 7 through 12:00 noon May 8.
- (13) From 12:00 noon May 9 through 12:00 noon May 10.
- (14) From 12:00 noon May 11 through 12:00 noon May 12.
- (15) From 12:00 noon May 13 through 12:00 noon May 14.
- (16) From 12:00 noon May 15 through 12:00 noon May 16.
- (17) From 12:00 noon May 17 through 12:00 noon May 18.
- (18) From 12:00 noon May 19 through 12:00 noon May 20.
- (19) From 12:00 noon May 21 through 12:00 noon May 22.
- (20) From 12:00 noon May 23 through 12:00 noon May 24.
- (21) From 12:00 noon May 25 through 12:00 noon May 26.
- (22) From 12:00 noon May 27 through 12:00 noon May 28.
- (23) From 12:00 noon May 29 through 12:00 noon May 30.
- (24) From 12:00 noon May 31 through 12:00 noon June 1.
- (25) From 12:00 noon June 3 through 12:00 noon June 4.
- (26) From 12:00 noon June 5 through 12:00 noon June 6.
- (27) From 12:00 noon June 7 through 12:00 noon June 8.
- (28) From 12:00 noon June 9 through 12:00 noon June 10.
- (29) From 12:00 noon June 11 through 12:00 noon June 12.
- (30) From 12:00 noon June 13 through 12:00 noon June 14.
- (31) From 12:00 noon June 15 through 12:00 noon June 16.
- (32) From 12:00 noon June 17 through 12:00 noon June 18.
- (33) From 12:00 noon June 19 through 12:00 noon June 20.
- (34) From 12:00 noon June 21 through 12:00 noon June 22.
- (35) From 12:00 noon June 23 through 12:00 noon June 24.
- (36) From 12:00 noon June 25 through 12:00 noon June 26.
- (37) From 12:00 noon June 27 through 12:00 noon June 28.
- (38) From 12:00 noon June 29 through 12:00 noon June 30.

5 AAC 27.580. WATERS CLOSED TO HERRING FISHING.

(a) During the period June 12 through October 31, herring may not be taken in waters described in 5 AAC 15.350 and 5 AAC 39.290.

(b) The Big River section of the Eastern District is closed to commercial herring fishing until further notice.

The Big River section is described as follows: all waters of Amber and Aniakchak bays bounded by 157°12.05' W. long., and the latitude of the southernmost marker 500 yards from the mouth of Aniakchak Lagoon.

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JUSTIFICATION:

Regulations adopted by the Alaska Board of Fisheries established that weekly fishing periods for herring in the Chignik Area would be announced by emergency order. During the roe season (April 15 through June 30) herring stocks are concentrated and are vulnerable to over exploitation. The 24-hour on and 24-hour off fishery will reduce the time that stocks are subject to exploitation and will allow the Department more time to collect catch information and assess stock abundance.

The Big River section has not received any appreciable recruitment of herring into that fishery since 1980 when it was first harvested. The trend in this stock's age composition has regressed from a healthy 1980 biomass dominated by 4 and 5 year olds to a diminished biomass in 1986 dominated by 8 and 9 year old fish. Consequently, the Big River section (272-20 Amber Bay and 272-60 Aniakchak Bay) will remain closed in 1996 until a healthy biomass of multi-age herring is present in quantities large enough to warrant exploitation.

EMERGENCY ORDER NO. 4-F-L-02-96

Issued at: Chignik, AK.,
11:00 p.m. May 20, 1996

EFFECTIVE DATE: 12:00 Noon
Monday, May 20, 1996

Expiration Date: June 30, 1996
Monday, May 20, unless superseded
by subsequent emergency order

EXPLANATION:

The Agripina and Chiginagak Sections of the Eastern District will close as of 12:00 noon Monday, May 20, 1996 for the season. However, the Nakalilok and Yantarni Sections of the Eastern District and other areas as described in the 1996 Herring Management Plan will remain open.

JUSTIFICATION:

During the roe season (April 15 through June 30), small schools of herring stocks in the Chignik Area are concentrated and are vulnerable to over exploitation. The closure in the Agripina and Chiginagak Sections of the Eastern District is necessary because the stocks have been historically small and at this time, catches approximate the preseason guideline harvest level.

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EMERGENCY ORDER NO. 4-F-L-03-96

Issued at: Chignik, AK.,
6:00 p.m. June 8, 1996

EFFECTIVE DATE: 11:30 a.m.
Monday, June 10, 1996

Expiration Date: 11:30 a.m.
Tuesday, June 11, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 11:30 a.m. Monday, June 10 until 11:30 a.m. Tuesday, June 11. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. The fishery opening will be started by a flare and fishers are encouraged to monitor VHF channel 6 for the final countdown. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Monday, June 10 for the next announcement.

REGULATION:

5 AAC 15.310. FISHING SEASONS. (a), 5 AAC 15.320. WEEKLY FISHING PERIODS. (a), and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.310. FISHING SEASONS. (a) In the Chignik Bay District, salmon may be taken only from June 10 through October 31, during fishing periods established by emergency order.

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 11:30 a.m. Monday, June 10 until 11:30 a.m. Tuesday, June 11.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56o16.15' N. lat., 158o38.10' W. long. to the opposite shore at approximately 56o16.10' N. lat., 158oo38.10' W. long..

JUSTIFICATION:

A fishery is warranted because the test fishery on June 8 indicated a significant buildup of sockeye salmon in the Chignik Lagoon. Additionally, the total escapement to 6:00 p.m. of 65,607 surpassed the June 12 interim escapement goal of 40,000. However, a short opening will be initiated to insure that the fishery performance approximates the test fishery estimate. The Chignik Lagoon markers

-Continued-

will be at Mensis Point to insure that interim escapement goals will not be surpassed The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-04-96

Issued at: Chignik, AK.,
6:00 p.m. June 10, 1996

EFFECTIVE DATE: 11:30 a.m.
Tuesday, June 11, 1996

Expiration Date: 11:30 a.m.
Wednesday, June 12, unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 11:30 a.m. Tuesday, June 11 until 11:30 a.m. Wednesday, June 12. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. Fishers are encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Tuesday, June 11 for the next fishery announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5AAC 15.350. CLOSED WATERS. (1) are amended to read:

5AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 11:30 a.m. Tuesday, June 11 until 11:30 a.m. Wednesday, June 12.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay District because the sockeye salmon escapement of 82,500 has already surpassed the June 12 interim escapement goal of 40,000 and catches near 29,000. The Chignik Lagoon markers will be at Mensis Point markers to insure that

-Continued-

interim escapement goals will not be surpassed. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-05-96

Issued at: Chignik, AK.,
6:00 p.m. June 11, 1996

EFFECTIVE DATE: 11:30 a.m.
Wednesday, June 12, 1996

Expiration Date: 3:00 p.m.
Thursday, June 13, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 27.5 hours from 11:30 a.m. Wednesday, June 12 until 3:00 p.m. Thursday, June 13. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. Fishers are encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Thursday, June 13 for the next fishery announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5AAC 15.350. CLOSED WATERS. (1) are amended to read:

5AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 11:30 a.m. Wednesday, June 12 until 3:00 p.m. Thursday, June 13.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay District because the sockeye salmon escapement of 92,814 has already surpassed the interim escapement goal of 50,000-65,000 for June 14 and June 11 catches were high at 57,000. The Chignik Lagoon markers will be at Mensis Point to insure that interim escapement goals will not be surpassed. The Central and Eastern District will

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open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-06-96

Issued at: Chignik, AK.,
6:00 p.m. June 12, 1996

EFFECTIVE DATE: 3:00 p.m.
Thursday, June 13, 1996

Expiration Date: 3:00 p.m.
Friday, June 14, unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 3:00 p.m. Thursday, June 13 until 3:00 p.m. Friday, June 14. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS (a) and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 3:00 p.m. Thursday, June 13 until 3:00 p.m. Friday, June 14.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay District because the sockeye salmon escapement of 98,000 has already surpassed the upper interim escapement goal of 65,000 for June 14, and June 12 catches were high at 94,000. The Chignik Lagoon markers will be at Mensis Point to insure that interim escapement goals will not be not surpassed. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-07-96

Issued at: Chignik, AK.,
6:00 p.m. June 13, 1996

EFFECTIVE DATE: 3:00 p.m.
Friday, June 14, 1996

Expiration Date: 3:00 p.m.
Saturday, June 15, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 3:00 p.m. Friday, June 14 until 3:00 p.m. Saturday, June 15. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. Fishers are encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Friday, June 14 for the next fishery announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5AAC 15.350. CLOSED WATERS. (1) are amended to read:

5AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 3:00 p.m. Friday, June 14 until 3:00 p.m. Saturday, June 15.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted in the Chignik Bay District because the sockeye salmon escapement of approximately 105,000 has already surpassed the upper interim escapement goal of 65,000 for June 14, and June 13 catches were high at 140,000. Chignik Lagoon markers will be at Mensis Point to insure that interim escapement goals will not be surpassed. The Central and Eastern District will extend concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-08-96

Issued at: Chignik, AK.,
2:00 p.m. June 17, 1996

EFFECTIVE DATE: 5:00 p.m.
Monday, June 17, 1996

Expiration Date: 5:00 p.m.
Tuesday, June 18, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 5:00 p.m. Monday, June 17 until 5:00 p.m. Tuesday, June 18. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. The fishery opening will be started by a flare and fishers are encouraged to monitor VHF channel 6 for the final countdown. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 12:00 noon Tuesday, June 17 for the next announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 5:00 p.m. Monday, June 17 until 5:00 p.m. Tuesday, June 18.

JUSTIFICATION:

A fishery is warranted because the test fishery on June 16 indicated a significant buildup of sockeye salmon between Mensis Point and Chignik Island in Chignik Lagoon. Additionally, the sockeye escapement rate of 2,000 per hour and the total escapement to 2:00 p.m. of 119,000 indicates that the June 12 interim escapement goal of 150,000 could be surpassed today. However, a short opening will be initiated to insure that the fishery performance approximates the test fishery estimate. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-09-96

Issued at: Chignik, AK.,
10:00 a.m. June 18, 1996

EFFECTIVE DATE: 5:00 p.m.
Tuesday, June 18, 1996

Expiration Date: 5:00 p.m.
Wednesday, June 19, unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 5:00 p.m. Tuesday, June 18 until 5:00 p.m. Wednesday, June 19. The Chignik Lagoon Regulatory markers will be moved to Mensis Point at 12:00 noon Tuesday, June 18 in Chignik Lagoon. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 12:00 noon Wednesday, June 19 for the next fishery announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 5:00 p.m. Tuesday, June 18 until 5:00 a.m. Wednesday, June 19.

5AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery is warranted because the sockeye daily escapement to 10:00 a.m. is 12,000 for a season's total of approximately 149,000. This indicates that the June 18 interim escapement goal of 150,000 will be surpassed today. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-10-96

Issued at: Chignik, AK.,
10:00 a.m. June 19, 1996

EFFECTIVE DATE: 5:00 p.m.
Wednesday, June 19, 1996

Expiration Date: 7:00 p.m.
Thursday, June 20, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 26 hours from 5:00 p.m. Wednesday, June 19 until 7:00 p.m. Thursday, June 20. Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 12:00 noon Thursday, June 20 for the next announcement.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 5:00 p.m. Wednesday, June 19 until 7:00 p.m. Thursday, June 20

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the total sockeye escapement as of 10:00 a.m. is at approximately 197,000 and is expected to surpass the June 20 upper interim escapement goal of 200,000 by today. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement The Central and Eastern District will extend concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-11-96

Issued at: Chignik, AK.,
3:00 p.m. June 22, 1996

EFFECTIVE DATE: 6:00 p.m.
Saturday, June 22, 1996

Expiration Date: 6:00 p.m.
Monday, June 24, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours from 6:00 p.m. Saturday, June 22 until 6:00 p.m. Monday, June 24. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. If escapement continues at the present rate, the markers in Chignik Lagoon will change to Mensis Point at 8:00 a.m. Sunday, June 23. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 10:00 p.m. Saturday, June 22 for the marker move decision. The fishery will be opened by flare in Chignik Lagoon.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 6:00 p.m. Saturday, June 22 until 6:00 p.m. Monday, June 24

JUSTIFICATION:

A fishery opening is warranted because the Chignik Lagoon test fishery of June 22 indicated a beginning buildup of sockeye salmon in the Mensis to Hume's Point area. Sockeye escapement through 2:00 p.m. is at 23,000 and is anticipated to surpass the June 22 upper interim escapement goal of 250,000 by today. The Central and Eastern District will extend concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

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EMERGENCY ORDER NO. 4-F-L-12-96

Issued at: Chignik, AK.,
10:00 p.m. June 22, 1996

EFFECTIVE DATE: 8:00 a.m.
Sunday, June 23, 1996

Expiration Date: 6:00 p.m.
Monday, June 24, unless superseded
by subsequent emergency order.

EXPLANATION:

The regulatory markers will move from Hume's to Mensis Point at 8:00 a.m. Sunday, June 23 until 6:00 p.m. Monday, June 24. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 for further fishery updates.

REGULATION:

5 AAC 15.350. CLOSED WATERS. (1) is amended to read

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56° 16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery marker change is warranted to control the time of entry flow of sockeye salmon in order not to under or overshoot the interim escapement goals as described in the preseason 1996 Chignik Area Management Plan.

EMERGENCY ORDER NO. 4-F-L-13-96

Issued at: Chignik, AK.,
7:00 p.m. June 26, 1996

EFFECTIVE DATE: 12:00 p.m.
Thursday, June 27, 1996

Expiration Date: 12:00 p.m.
Friday, June 28, unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will open to commercial salmon fishing for 24 hours from 12:00 noon Thursday, June 27 until 12:00 noon

-Continued-

Friday, June 28. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 9:30 p.m. Thursday, June 28 for further fishery notifications. The fishery will opened by flare in Chignik Lagoon.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will be open to commercial salmon fishing from 12:00 p.m. Thursday, June 27 until 12:00 p.m. Friday, June 28.

JUSTIFICATION:

A fishery opening is warranted because the sockeye salmon daily escapement through 7:00 p.m. is approximately 26,000. At this escapement rate, it is anticipated that the June 27 upper interim escapement goal of 355,000 will be surpassed by today. The Central and Eastern District will open concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-14-96

Issued at: Chignik, AK.,
9:00 p.m. June 27, 1996

EFFECTIVE DATE: 12:00 p.m.
Friday, June 28, 1996

Expiration Date: 12:00 p.m.
Saturday, June 29, unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central, and Eastern Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 12:00 noon Friday, June 28 until 12:00 noon Saturday, June 29. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 9:30 p.m. Friday, June 29 for further fishery notifications.

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REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, and Eastern Districts will extend to commercial salmon fishing from 12:00 p.m. Friday, June 28 until 12:00 p.m. Saturday, June 29

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 9:00 p.m. is approximately 44,500 for a season's total of 375,000. At this escapement rate, it is anticipated that the June 29 upper interim escapement goal of 385,000 will be surpassed by tomorrow. The Central and Eastern District extend concurrently with the Chignik Bay District as described in the Eastern District Management Plan 5 AAC 15.360.

EMERGENCY ORDER NO. 4-F-L-15-96

Issued at: Chignik, AK.,
2:00 p.m. June 28, 1996

EFFECTIVE DATE: 12:00 p.m.
Saturday, June 29, 1996

Expiration Date: 12:00 p.m.
Monday, July 1, unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours from 12:00 noon. Saturday, June 29 until 12:00 noon Monday, July 1. Fishing will be allowed up to the regulatory markers at Mensis Point beginning at 12:00 noon Saturday, June 29. The Eastern District will extend to commercial fishing for 36 hours from 12:00 noon Saturday, June 29 and close at 12:01 a.m. (midnight) Monday, July 1. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 9:30 p.m. Sunday, June 30 for further fishery notifications.

REGULATION:

5 AAC 15.320 WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350 CLOSED WATERS. (1) are amended to read:

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5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 12:00 noon Saturday, June 29 until 12:00 noon Saturday, July 1. The Eastern District will extend to commercial salmon fishing from 12:00 noon Friday, June 29 until 12:01 a.m. (midnight) Monday, July 1.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 2:00 p.m., July 2 is approximately 9,500 for a season's total of 387,500. At this escapement rate, it is anticipated that the June 29 upper interim escapement goal of 400,000 will be surpassed by June 30. The markers will move to Mensis Point in Chignik Lagoon to provide a smooth flow of escapement. The Eastern District is closing as described in the Eastern District Management Plan 5 AAC 15.360 during the transition from the Black Lake to the Chignik Lake sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks.

EMERGENCY ORDER NO. 4-F-L-16-96

Issued at: Chignik, AK.,
6:00 p.m. June 30, 1996

EFFECTIVE DATE: 12:00 p.m.
Monday, July 1, 1996

Expiration Date: 6:00 p.m.
Wednesday, July 3 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 54 hours from 12:00 noon Monday, July 1 until 6:00 p.m. Wednesday, July 3. The Chignik Lagoon markers will be at Mensis Point. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 12:00 noon Wednesday, July 3 for further fishery notifications.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) 5 AAC 15.350 CLOSED WATERS (1) are amended to read:

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5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 12:00 noon. Monday, July 1 until 6:00 p.m. Wednesday, July 3.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 5:00 p.m., June 30 is approximately 6,500 for a season's total of 399,000. At this escapement rate, it is anticipated that the June 30 upper interim escapement goal of 400,000 will be surpassed today. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. The Eastern District will remain closed as described in the Eastern District Management Plan 5 AAC 15.360 during the transition from the Black Lake to the Chignik Lake sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks.

EMERGENCY ORDER NO. 4-F-L-17-96

Issued at: Chignik, AK.,
2:00 p.m. July 2, 1996

EFFECTIVE DATE: 6:00 p.m.
Wednesday, July 3, 1996

Expiration Date: 8:00 p.m.
Friday, July 5 unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 50 hours from 6:00 p.m. Wednesday, July 3 until 8:00 p.m. Friday, July 5. The Chignik Lagoon markers will be at Mensis Point. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 noon Thursday, July 4 for further fishery notifications.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) 5 AAC 15.350 CLOSED WATERS (1) are amended to read:

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5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 6:00 p.m. Wednesday, July 3 until 8:00 p.m. Friday, July 5.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 1:00 p.m. is approximately 4,500 for a season's total of 413,000. High sockeye catches for June 30 (42,000) and July 1 (51,000) indicates that the first run is still at high levels. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. Scale pattern analysis is being conducted and a complete sockeye escapement curve will be publicized when modeling is completed. The Eastern District remains closed as described in the Eastern District Salmon Management Plan 5 AAC 15.360 during the transition from the first (Black lake) and second (Chignik Lake) sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks.

EMERGENCY ORDER NO. 4-F-L-18-96

Issued at: Chignik, AK.,
3:00 p.m. July 4, 1996

EFFECTIVE DATE: 8:00 p.m.
Friday, July 5, 1996

Expiration Date: 8:00 p.m.
Sunday, July 7 unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 48 hours from 8:00 p.m. Friday, July 5 until 8:00 p.m. Sunday, July 7. The markers in Chignik Lagoon will be at Mensis Point. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Saturday, July 6 for further fishery notifications.

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REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350 CLOSED WATERS (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 8:00 p.m. Friday, July 5 until 8:00 p.m. Sunday, July 7.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 3:00 p.m. is approximately 1,000 for a season's total of 419,000. High sockeye catches for July 1-3 indicates that the first run is still at high levels. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. Scale pattern analysis is being conducted and early results indicate that at least 25,000 sockeye salmon have been apportioned to the Chignik Lake run. A complete sockeye escapement curve will be publicized when modeling is completed. The Eastern District remains closed as described in the Eastern District Salmon Management Plan 5 AAC 15.360 during the transition from the first (Black lake) and second (Chignik Lake) sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks.

EMERGENCY ORDER NO. 4-F-L-19-96

Issued at: Chignik, AK.,
6:00 p.m. July 6, 1996

EFFECTIVE DATE: 8:00 p.m.
Sunday, July 7, 1996

Expiration Date: 10:00 p.m.
Monday, July 8 unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 26 hours from 8:00 p.m. Sunday, July 7 until 10:00 p.m. Monday, July 8. The markers in Chignik will be at Mensis Point. Open waters in the Central District will be to the stream markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel

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Point on Cape Kumlik to the furthest northeast point on Cape Kumliun. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Sunday, July 7 for further fishery notifications.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a),. 5 AAC 15.350 CLOSED WATERS (1), and 5 AAC 15.350. CLOSED WATERS. (9) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 8:00 p.m. Sunday, July 7 until 10:00 p.m. Monday, July 8.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

5 AAC 15.350. CLOSED WATERS. (9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36.53' N. lat., 157°40.42' W. long. to the furthest northeast point on Cape Kumliun at 56°33.6' N. lat., 157°49.1' W. long..

JUSTIFICATION

A fishery extension is warranted because the sockeye salmon daily escapement through 6:00 p.m. is approximately 5,500 for a season's total of 432,000. Lower catches from July 4 and some early reports from July 5 may indicate that the first run is declining, although still dominant. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. Scale pattern analysis is being conducted and early results indicate that at least 30,000 sockeye salmon have been apportioned to the Chignik Lake run. A complete sockeye escapement curve will be publicized when modeling is completed. The Eastern District remains closed as described in the Eastern District Salmon Management Plan 5 AAC 15.360 during the transition from the first (Black lake) and second (Chignik Lake) sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks. Inner Kujulik Bay will remain closed to insure adequate chum escapement.

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EMERGENCY ORDER NO. 4-F-L-20-96

Issued at: Chignik, AK.,
6:00 p.m. July 7, 1996

EFFECTIVE DATE: 10:00 p.m.
Monday, July 8, 1996

Expiration Date: 10:00 p.m.
Tuesday, July 9 unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 10:00 p.m. Monday, July 8 until 10:00 p.m. Tuesday, July 9. The Chinik Lagoon markers will be at Mensis Point. Open waters in the Central District will be to the stream markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumliun. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Monday, July 8 for further fishery notifications.

REGULATION:

AAC 15.320. WEEKLY FISHING PERIODS. (a), 5 AAC 15.350 CLOSED WATERS. (1), and 5 AAC 15.350. CLOSED WATERS. (9) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 10:00 p.m. Monday, July 8 until 10:00 p.m. Tuesday, July 9.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

5 AAC 15.350. CLOSED WATERS. (9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36.53' N. lat., 157°40.42' W. long. to the furthest northeast point on Cape Kumliun at 56°33.6' N. lat., 157°49.1' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 6:00 p.m. is approximately 3,100 for a season's total of 435,000. The Chignik Lagoon markers will continue to

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be at Mensis Point to insure a smooth flow of escapement. Scale pattern analysis is being conducted and early results indicate that at least 30,000 to 40,000 sockeye salmon have been apportioned to the Chignik Lake run. A complete sockeye escapement curve will be publicized when modeling is completed. The Eastern District remains closed as described in the Eastern District Salmon Management Plan 5 AAC 15.360 during the transition from the first (Black lake) and second (Chignik Lake) sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks. Inner Kujulik Bay will close to insure adequate chum escapement.

EMERGENCY ORDER NO. 4-F-L-21-96

Issued at: Chignik, AK.,
9:00 a.m. July 12, 1996

EFFECTIVE DATE: 3:00 p.m.
Friday, July 12, 1996

Expiration Date: 3:00 p.m.
Sunday, July 14 unless superseded by
subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours from 3:00 p.m. Friday, July 12 until 3:00 p.m. Sunday, July 14. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. Open waters in the Central District will be to the stream markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumliun. The fishery will be started by flare and fishers are encouraged to monitor VHF channel 6 for the final countdown. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Saturday, July 13 for further fishery notifications.

REGULATION:

AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (9) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial salmon fishing from 3:00 p.m. Friday, July 12 until 3:00 p.m. Sunday, July 14.

5 AAC 15.320. CLOSED WATERS. (9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at

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56°36.53' N. lat., 157°40.42' W. long. to the furthest northeast point on Cape Kumliun at 56°33.6' N. lat., 157°49.1' W. long..

JUSTIFICATION:

A fishery opening is warranted because sockeye escapement through 8:00 a.m. is at approximately 3,000 giving a season's total of 456,000. The Western and Perryville Districts will not open because openings in those areas depend on the harvest and marketing of surplus pink and chum salmon; presently, those species will not be utilized. Scale pattern analysis is being conducted and early results indicate that at least 30,000 to 40,000 sockeye salmon have been apportioned to the Chignik Lake run. A complete sockeye escapement curve will be publicized when modeling is completed. The Eastern District remains closed as described in the Eastern District Salmon Management Plan 5 AAC 15.360 during the transition from the first (Black lake) and second (Chignik Lake) sockeye salmon run as scale pattern analysis is utilized to build a model to apportion the stocks. Inner Kujulik Bay will close to insure adequate chum escapement.

EMERGENCY ORDER NO. 4-F-L-22-96

Issued at: Chignik, AK.,
10:00 a.m. July 13, 1996

EFFECTIVE DATE: 5:00 p.m.
Saturday, July 13, 1996

Expiration Date: 3:00 p.m.
Sunday, July 14 unless superseded by
subsequent emergency order.

EXPLANATION:

The regulatory markers will move from Hume's to Mensis Point at 5:00 p.m. Saturday, July 13. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 for further fishery updates.

REGULATION:

5.AAC 15.350. CLOSED WATERS. (1) is amended to read:

5.AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

-Continued-

JUSTIFICATION:

A fishery marker change is warranted in order to spread the fleet and harvest surplus sockeye salmon above escapement requirements as described in the preseason 1996 Chignik Area Management Plan.

EMERGENCY ORDER NO. 4-F-L-23-96

Issued at: Chignik, AK.,
9:00 a.m. July 14, 1996

EFFECTIVE DATE: 3:00 p.m.
Sunday, July 14, 1996

Expiration Date: 3:00 p.m.
Monday, July 15 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours from 3:00 p.m. Sunday, July 14 until 3:00 p.m. Monday, July 15. The markers in Chignik will be at Mensis Point. Open waters in the Central District will be to the stream markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumliun. No further fishery extensions are anticipated during this fishing period.

REGULATION:

AAC 15.320. WEEKLY FISHING PERIODS. (a), 5 AAC 15.350. CLOSED WATERS. (1), and 5 AAC 15.350. CLOSED WATERS. (9) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial salmon fishing from 3:00 p.m. Sunday, July 14 until 3:00 p.m. Monday, July 15.

5 AAC 15.350 CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.09' N. lat., 158°38.06 W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

5 AAC 15.350. CLOSED WATERS. (9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at

-Continued-

56°36.53' N. lat., 157°40.42' W. long. to the furthest northeast point on Cape Kumliun at 56°33.6' N. lat., 157°49.1' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon season's total escapement through 8:00 a.m. is approximately 484,000. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. The Eastern, Western, and Perryville Districts will not open because in those areas openings will depend on the harvest and marketing of surplus pink and chum salmon; presently, those species will not be utilized. Scale pattern analysis is being conducted and early results indicate that 75,000 salmon have been apportioned to the Chignik Lake run. A complete sockeye escapement curve will be publicized when modeling is completed. Inner Kujulik Bay will remain closed to insure adequate chum escapement.

EMERGENCY ORDER NO. 4-F-L-24-96

Issued at: Chignik, AK.,
10:00 a.m. July 18, 1996

EFFECTIVE DATE: 6:00 p.m.
Thursday, July 18, 1996

Expiration Date: 12:01 a.m.
Sunday, July 21 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing for 48 hours. The fishery in the Chignik Bay District will be from 6:00 p.m. Thursday, July 18 until 6:00 p.m. Saturday, July 20. The fishery in the Central District will be opened from 12:01 a.m. Friday, July 19 until 12:01 a.m. Sunday, July 21. Fishing will be allowed up to the regulatory markers at Hume's Point in Chignik Lagoon. Open waters in the Central District will be to the stream markers except in Kujulik Bay: open waters will be south of a line drawn from Brandel Point on Cape Kumlik to the furthest northeast point on Cape Kumliun. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Friday, July 19 for further fishery notifications.

REGULATION:

AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (9) are amended to read:

-Continued-

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District will open to commercial salmon fishing from 6:00 p.m. Thursday, July 18 until 6:00 p.m. Saturday, July 20. The Central District will open to commercial salmon fishing from 12:01 a.m. Friday, July 19 until 12:01 a.m. Sunday, July 21.

5 AAC 15.350. CLOSED WATERS. (9) In Kujulik Bay of the Central District closed waters include all waters northeast of a line in Kujulik Bay from Brandel Point on Cape Kumlik at 56°36.53' N. lat., 157°40.42' W. long. to the furthest northeast point on Cape Kumlium at 56°33.6' N. lat., 157°49. 1' W. long.

JUSTIFICATION:

A fishery opening is warranted because the sockeye salmon daily escapement through 9:00 a.m. is approximately 5,000 for a season's total of 505,000. Scale pattern analysis of sockeye salmon scales collected on July 14 shows Chignik Lake as the dominant stock with the second run escapement at 100,000. The Eastern, Western and Perryville Districts will remain closed because openings in those areas will depend on the harvest and marketing of surplus pink and chum; presently, those species will not be utilized. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON. Inner Kujulik Bay will close to insure adequate chum escapement.

EMERGENCY ORDER NO. 4-F-L-25-96
12:01 p.m. July 18, 1996

Issued at: Chignik, AK.,

EFFECTIVE DATE: 12:01 a.m.
Friday, July 19, 1996

Expiration Date: 12:01 a.m.
Sunday, June 21, unless superseded
by subsequent emergency order.

EXPLANATION:

In addition to the Chignik Bay and Central Districts, the Perryville District will open to commercial salmon fishing for 48 hours from 12:01 a.m. Friday, July 19 until 12:01 a.m. Sunday, July 21.

REGULATION:

5 AAC 15.310. FISHING SEASONS. (a) and 5 AAC 15.320. WEEKLY FISHING PERIODS. (a) are amended to read:

-Continued-

5 AAC 15.310. FISHING SEASONS. (a) In the Perryville District, salmon may be taken only from July 19 through October 31, during fishing periods established by emergency order.

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Perryville District will open to commercial salmon fishing from 12:01 a.m. Friday, July 19 until 12:01 a.m. Sunday, July 21.

JUSTIFICATION:

The additional opening in the Perryville District is warranted because sockeye escapement through 11:00 a.m. is estimated at 9,200 for a total second run escapement of approximately 105,000. Pink and chum escapement in the Perryville District is adequate and on track for this time period, and a limited market that will utilize all salmon species has been secured by a few area fishermen. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-26-96

Issued at: Chignik, AK.,
10:00 a.m. July 19, 1996

EFFECTIVE DATE: 6:00 p.m.
Friday, July 19, 1996

Expiration Date: 6:00 a.m.
Saturday, July 20 unless superseded
by subsequent emergency order.

EXPLANATION:

Fishing will be allowed up to the regulatory markers at Mensis Point in Chignik Lagoon beginning at 6:00 p.m. Friday, July 19. Fishermen are also encouraged to monitor VHF channel 6 and SSB channel 4125 at 6:30 p.m. Friday, July 19 for the next fishery notices.

REGULATION:

5 AAC 15.350. CLOSED WATERS. (1) is amended to read:

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

-Continued-

JUSTIFICATION:

A fishery marker change is warranted because sockeye escapement to 10:00 a.m. is 6,000 for a season's total of 525,000.

EMERGENCY ORDER NO. 4-F-L-27-96

Issued at: Chignik, AK.,
11:00 a.m. July 20, 1996

EFFECTIVE DATE: 6:00 p.m.
Saturday, July 20, 1996

Expiration Date: 12:01 p.m.
Monday, July 22 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay, Central and Perryville Districts of the Chignik Management Area will extend to commercial salmon fishing for 24 hours. The markers in Chignik Lagoon will remain at the Mensis Markers. The fishery in the Chignik Bay District will be from 6:00 p.m. Saturday, July 20 until 6:00 p.m. Sunday, July 21. The fishery in the Central and Perryville Districts will be from 12:01 a.m. Sunday, July 21 until 12:01 a.m. Monday, July 22.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District will extend to commercial salmon fishing from 6:00 p.m. Saturday, July 20 until 6:00 p.m. Sunday, July 21. The Central District and Perryville Districts will extend to commercial salmon fishing from 12:01 a.m. Sunday, July 21 until 12:01 a.m. Monday, July 22.

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery extension is warranted because the sockeye salmon daily escapement through 11:00 a.m. is approximately 2,500 for a total second run escapement of approximately 125,000. The Chignik

-Continued-

Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. An extension in the Perryville District is warranted because pink and chum escapement to that District is adequate and on track for this time period., and an all species market has been secured by a limited number of area fishers. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-28-96

Issued at: Chignik, AK.,
6:00 p.m. July 29, 1996

EFFECTIVE DATE: 4:00 p.m.
Tuesday, July 30, 1996

Expiration Date: 4:00 p.m.
Saturday, August 3 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts of the Chignik Management Area will open to commercial salmon fishing for 96 hours (4 days) from 4:00 p.m. Tuesday, July 30 until 4:00 p.m. Saturday, August 3. Other Districts may open as all species markets become available. The Chignik Lagoon markers will be initially at Hume's Point then move to Mensis at 4:00 p.m. Wednesday, July 31. Fishermen are also encouraged to monitor VHF channel 6 for the final countdown for a flare opening in Chignik Lagoon.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District and Central Districts will open to commercial salmon fishing from 4:00 p.m. Tuesday, July 30 until 4:00 p.m. Saturday, August 3.

5 AAC 15.350. CLOSED WATERS. (1) Effective at 4:00 p.m. Wednesday, July 31 all waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

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JUSTIFICATION:

A fishery opening is warranted because the sockeye salmon daily escapement through 6:00 p.m. is approximately 9,367 for a total second run escapement of approximately 199,000, and escapement is expected to exceed the July interim goal of 200,000 by today. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. Additionally, pink and chum salmon in the Western and Perryville Districts is adequate and on track for this time of year. Openings could occur in these Districts if an all species market is secured. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-29-96

Issued at: Chignik, AK.,
10:00 a.m. July 30, 1996

EFFECTIVE DATE: 12:01 a.m.
Wednesday, July 31, 1996

Expiration Date: 12:01 a.m.
Sunday, August 4 unless superseded
by subsequent emergency order.

EXPLANATION:

The Mitrofanina and Dorner Bay Sections of the Western District will open to commercial salmon fishing for 96 hours (4 days) from 12:01 a.m. Wednesday, July 31 until 12:01 a.m. Sunday, August 4. In Dorner Bay the open waters will be south of a line from Cape Itki to the opposite Cape. Other Districts may open as all species markets become available.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Mitrofanina Section and a portion of the Dorner Bay Section of the Western District will open to commercial salmon fishing from 12:01 a.m. Wednesday, July 31 until 12:01 a.m. Sunday, August 4. Open waters in the Dorner Bay Section will be south of a line drawn from Cape Itki at 55°58.75' N. lat., 158° 30.00' W. long. to a point on the west side of Dorner Bay's entrance at 55°57.00' N. lat., 158° 40.00' W. long..

JUSTIFICATION:

A Pink and chum salmon fishery in the Western District is warranted because escapement is adequate and on track for this time of year for most streams in the this District, and an all species

-Continued-

market has been secured. However, streams in Dorner Bay area are behind in escapement and need added protection. Openings could occur in the Perryville District if an all species market is secured because pink and chum escapement is adequate and on track for this time period. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-30-96

Issued at: Chignik, AK.,
2:00 p.m. July 30, 1996

EFFECTIVE DATE: 12:01 a.m.
Wednesday, July 31, 1996

Expiration Date: 12:01 a.m.
Friday, August 2 unless superseded
by subsequent emergency order.

EXPLANATION:

The Perryville District will open to commercial salmon fishing for 48 hours from 12:01 a.m. Wednesday, July 31 until 12:01 a.m. Friday, August 2.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Perryville District will open to commercial salmon fishing from 12:01 a.m. Wednesday, July 31 until 12:01 a.m. Friday, August 2.

JUSTIFICATION:

A pink and chum salmon fishery in the Perryville District is warranted because an all species market has been secured and escapement is adequate and on track for this time of year. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

-Continued-

EMERGENCY ORDER NO. 4-F-L-31-96

Issued at: Chignik, AK.,
12:00 p.m. August 1, 1996

EFFECTIVE DATE: 12:01 a.m.
Friday, August 2, 1996

Expiration Date: 12:01 a.m.
Saturday, August 3 unless superseded
by subsequent emergency order.

EXPLANATION:

The Perryville District will extend to commercial salmon fishing for 24 hours from 12:01 a.m. Friday, August 2 until 12:01 a.m. Saturday, August 3.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Perryville District will extend to commercial salmon fishing from 12:01 a.m. Friday, August 2 until 12:01 a.m. Saturday, August 3.

JUSTIFICATION:

An extension to the pink and chum salmon fishery in the Perryville District is warranted because an all species market has been secured and escapement is adequate and on track for this time of year. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-32-96

Issued at: Chignik, AK.,
4:30 p.m. August 2, 1996

EFFECTIVE DATE: 4:00 p.m.
Saturday, August 3, 1996

Expiration Date: 12:01 a.m.
Tuesday, August 6 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay District, Central District, the Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will extend to commercial salmon fishing. The Chignik Bay and Central District will extend for 48 hours from 4:00 p.m. Saturday, August 3 until 4:00 p.m.

-Continued-

Monday, August 5. The markers in Chignik Lagoon will remain at the Mensis Point. The Mitrofanina Section and Dorner Bay section of the Western District will extend to commercial salmon fishing for 48 hours from 12:01 a.m. Sunday, August 4 until 12:01 a.m. Tuesday, August 6. The Perryville District will extend for 72 hours from 12:01 a.m. Saturday, August 3 until 12:01 Tuesday, August 6.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will extend to commercial fishing from 4:00 p.m. Saturday, August 3 until 4:00 p.m. Monday, August 5. The Mitrofanina and Dorner bay Sections of the Western District will extend to commercial salmon fishing from 12:01 Sunday, August 4 until 12:01 Tuesday, August 6. The Perryville District will extend to commercial salmon fishing from 12:01 a.m. Saturday, August 3 until 12:01 a.m. Tuesday, August 6.

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

An extension is warranted because the Chignik Lake (second run) sockeye escapement is approximately 220,000, only 30,000 from the season's escapement goal of 250,000. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. In the Western and Perryville Districts, pink and chum salmon escapement is adequate and on track for most streams, warranting an extension. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

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EMERGENCY ORDER NO. 4-F-L-33-96

Issued at: Chignik, AK.,
6:00 p.m. August 8, 1996

EFFECTIVE DATE: 2:00 p.m.
Friday, August 9, 1996

Expiration Date: 2:00 p.m.
Tuesday, August 13 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay and Central Districts will open to commercial salmon fishing for 96 hours (4 days) from 2:00 p.m. Friday, August 9 until 2:00 p.m. Tuesday, August 13. The Chignik Lagoon regulatory markers will be at Hume's Point on Friday and move to Mensis Point at 2:00 p.m. Saturday, August 10. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will open to commercial salmon fishing for 72 hours (3 days) from 12:01 a.m. Saturday, August 10 until 12:01 a.m. Tuesday, August 13.

REGULATION:

5 AAC 15.320 WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350 CLOSED WATERS (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District and Central District will open to commercial salmon fishing from 2:00 p.m. Friday, August 9 until 2:00 p.m. Tuesday, August 13. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will open from 12:01 a.m. Saturday, August 10 until 12:01 a.m. Tuesday, August 13.

5 AAC 15 350. CLOSED WATERS (1) Effective at 2:00 p.m. Saturday, August 10 all waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158° 38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery is warranted because the sockeye daily escapement to 6:00 p.m. is approximately 4,500 adding to the second run escapement that now totals approximately 233,000. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. Utilizing the Perryville District and selected areas of the Western District is warranted because pink salmon escapement is

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adequate but it appears, at this time, the run is below average. Also, a limited market has been secured by a few area fishermen that will utilize all salmon species. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-34-96

Issued at: Chignik, AK.,
2:00 p.m. August 9, 1996

EFFECTIVE DATE: 12:01 a.m.
Sunday, August 11, 1996

Expiration Date: 12:01 a.m.
Monday, August 12 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Castle Cape statistical area 273-90 (Castle Cape to Cape Itki) of the Western District will open to commercial salmon fishing for 24 hours from 12:01 a.m. Saturday, August 10 until 12:01 a.m. Sunday, August 11. However, the Castle Bay statistical area 273-94 of the Castle Cape Section will remain closed.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Castle Cape Section of the Western District will open to commercial salmon fishing from 12:01 a.m. Saturday, August 10 until 12:01 a.m. Sunday, August 11.

JUSTIFICATION:

An opening to harvest pink and chum salmon in the Castle Cape Section from Castle Cape to Cape Itki of the Western District is warranted because an all species market has been secured and escapement is adequate and on track for this time of year. All fishermen must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

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EMERGENCY ORDER NO. 4-F-L-35-96

Issued at: Chignik, AK.,
6:00 p. m. August 10, 1996

EFFECTIVE DATE: 12:01 a.m.
Sunday, August 11, 1996

Expiration Date: 12:01 a.m.
Monday, August 12 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Castle Cape Section (statistical area 273-90) of the Western District will extend to commercial salmon fishing for 24 hours from 12:01 a.m. Sunday, August 11 until 12:01 a.m. Monday, August 12.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS (a) is amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Castle Cape Section of the Western District will extend to commercial salmon fishing from 12:01 a.m. Sunday, August 11 until 12:01 a.m. Monday, August 12.

JUSTIFICATION:

An extension to the pink and chum salmon fishery in the Castle Cape Section of the Western District is warranted because an all species market has been secured and escapement is adequate and on track for this time of year

EMERGENCY ORDER NO. 4-F-L-43-96

Issued at: Chignik, AK.,
5:00 p.m. September 17, 1996

EFFECTIVE DATE: 12:01 a.m.
Friday, September 21, 1996

Expiration Date: 12:00 p.m.
Thursday, October 31, 1996.

EXPLANATION:

The Chignik Management Area will close to commercial salmon fishing for the 1996 season at 12:01 a.m. Friday, September 21. The season will close to conserve sockeye salmon for subsistence use in the Chignik Lakes watershed.

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REGULATION:

5 ACC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.310. FISHING SEASONS. (a) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) Salmon may be taken in the Chignik Management Area from 11:30 a.m. June 10 until 12:01 a.m. September 21.

5 AAC 15.310. FISHING SEASONS.(a) The Chignik Management Area will close to commercial salmon fishing for the 1996 season at 12:01 Saturday, September 21.

JUSTIFICATION:

According to a compromise agreement between commercial and subsistence users, if after September 15 subsistence users are concerned about the availability of sockeye salmon then the commercial fishery could be curtailed. The department concurs with subsistence users that catches have been low (less than 100 sockeye per boat) and closed the fishery. All fishermen are cautioned that they must comply with the wanton waste law as described in 5AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-37-96

Issued at: Chignik, AK.,
6:00 p.m. August 14, 1996

EFFECTIVE DATE: 6:00 p.m.
Thursday, August 15, 1996

Expiration Date: 12:01 p.m.
Tuesday, August 20 unless superseded
by subsequent emergency order.

EXPLANATION:

The Chignik Bay and Central Districts will open to commercial salmon fishing for 96 hours (4 days) from 6:00 p.m. Thursday, August 15 until 6:00 p.m. Monday, August 19. The Chignik Lagoon regulatory markers will be at Hume's Point on Thursday and move to Mensis Point at 6:00 p.m. Friday, August 16. The Chignik Lagoon will be opened by flare and area fishermen are encouraged to monitor VHF channel 6 for final countdown. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will open to commercial salmon fishing for 96 hours (4 days) from 12:01 a.m. Friday, August 16 until 12:01 a.m. Tuesday, August 20.

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REGULATION:

5 AAC 15.320.WEEKLY FISHING PERIODS. (a), and 5 ACC 15.350. CLOSED WATERS.(1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District and Central Distracters will open to commercial salmon fishing from 6:00 p.m. Thursday, August 15 until 6:00 p.m. Monday, August 19. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will open from 12:01 a.m. Friday, August 16 until 12:01 a.m. Tuesday, August 20.

5 AAC 15.350. CLOSED WATERS (1) Effective at 6:00 p.m. Friday, August 16 all waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A sockeye salmon fishery is warranted because second run escarpment to 2:00 p.m. now totals approximately 255,000, with 39,717 escaping post July. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. Utilizing the Perryville District and selected areas of the Western District is warranted because pink salmon escapement is adequate but appears, at this time, to be from a below average run. Also, a limited market has been secured by a few area fishermen that will utilize all salmon species. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-38-96

Issued at: Chignik, AK.,
4:00 p.m. August 18, 1996

EFFECTIVE DATE: 6:00 p.m.
Monday, August 19, 1996

Expiration Date: 12:01 a.m.
Thursday, August 22 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay and Central Districts will extend to commercial salmon fishing for 48 hours from 6:00 p.m. Monday, August 19 until 6:00 p.m. Wednesday, August 21. The markers in Chignik

-Continued-

Lagoon will remain at Mensis Point. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will extend to commercial salmon fishing for 48 hours from 12:01 a.m. Tuesday, August 20 until 12:01 a.m. Thursday, August 22.

REGULATION:

AAC 15.320.WEEKLY FISHING PERIODS. (a) and 5 ACC 15.350. CLOSED WATERS.(1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay District and Central Districts will extend to commercial salmon fishing from 6:00 p.m. Monday, August 19 until 6:00 p.m. Wednesday, August 21. The Mitrofanina and Dorner Bay Sections of the Western District, and the Perryville District will extend to commercial salmon fishing from 12:01 a.m. Tuesday, August 20 until 12:01 a.m. Thursday, August 22.

5 AAC 15 350. CLOSED WATERS (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158° 38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery is warranted because the sockeye second run escapement to 4:00 p.m. now totals approximately 274,000, with 57,976 escaping post July. The Chignik Lagoon markers will continue to be at Mensis Point to insure a smooth flow of escapement. Utilizing the Perryville District and selected areas of the Western District is warranted because pink salmon escapement is adequate but appears, at this time, to be a below average run. Also, a limited market has been secured by a few area fishermen that will utilize all salmon species. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

-Continued-

EMERGENCY ORDER NO. 4-F-L-39-96

Issued at: Chignik, AK.,
12:00 p.m. August 23, 1996

EFFECTIVE DATE: 12:00 p.m.
Saturday, August 24, 1996

Expiration Date: 12:00 p.m.
Wednesday, August 28 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, Western and Perryville Districts will open to commercial salmon fishing for 96 hours (4 days) from 12:00 noon Saturday, August 24 until 12:00 noon Wednesday, August 28. The Chignik Lagoon regulatory markers will be at Hume's Point on Friday and move to Mensis Point at 12:00 noon Sunday, August 25. The Chignik Lagoon will be opened by flare and area fishermen are encouraged to monitor VHF channel 6 for final countdown.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and AAC 15.350. CLOSED WATERS (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central, Western, and Perryville Districts will open to commercial salmon fishing from 12:00 p.m. Saturday, August 24 until 12:00 p.m. Wednesday, August 28.

5 AAC 15.350. CLOSED WATERS (1) Effective at 12:00 (noon) Sunday, August 25 all waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long.

JUSTIFICATION:

A fishery is warranted because the sockeye second run escapement to 12:00 p.m. now totals approximately 282,000, with 65,760 escaping post July. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. Utilizing the Western and Perryville Districts is warranted based on surplus pink and chum salmon escapement needs and a market that will utilize all salmon species. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

-Continued-

EMERGENCY ORDER NO. 4-F-L-40-96

Issued at: Chignik, AK.,
6:00 p.m. August 29, 1996

EFFECTIVE DATE: 5:00 p.m.
Friday, August 30, 1996

Expiration Date: 5:00 p.m.
Wednesday, September 4 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, Western, and Perryville Districts will open to commercial salmon fishing for 96 hours (4 days). The Chignik Bay and Central District will open from 5:00 p.m. Friday, August 30 until 5:00 p.m. Tuesday, September 3. The Chignik Lagoon regulatory markers will be at Hume's Point on Friday and move to Mensis Point at 5:00 p.m.. Saturday, August 31. The Chignik Lagoon will be opened by flare and area fishermen are encouraged to monitor VHF channel 6 for final countdown. The Western and Perryville Districts will open to commercial salmon fishing from 12:01 a.m. Saturday, August 31 until 12:01 a.m. Wednesday, September 4. The markers in Ivanof Bay Section off the Perryville will be at Road Island.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) 5 AAC 15.350. CLOSED WATERS.(1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay and Central Districts will open to commercial fishing from 5:00 p.m. Friday, August 30 until 5:00 p.m. Tuesday, September 3. The Western, and Perryville Districts will open to commercial salmon fishing from 12:01 p.m. Saturday, August 31 until 12:00 p.m. Wednesday, September 4.

5 AAC 15.350. CLOSED WATERS.(1) Effective at 5:00 p.m. Saturday, August 31 all waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery is warranted because the sockeye second run escapement to 6:00 p.m. now totals approximately 297,000, with 80,000 escaping post July. The Chignik Lagoon markers will move to Mensis Point to insure a smooth flow of escapement. Utilizing the Western and Perryville Districts

-Continued-

is warranted based on surplus pink and chum salmon escapement to escapement needs and a market that will utilize all salmon species. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310 WASTE OF SALMON.

EMERGENCY ORDER NO. 4-F-L-41-96

Issued at: Chignik, AK.,
10:00 a.m. September 4, 1996

EFFECTIVE DATE: 12:01 a.m.
Saturday, September 7, 1996

Expiration Date: 12:01 a.m.
Wednesday, September 11 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western and Perryville Districts will open to commercial salmon fishing for 96 hours (4 days) from 12:01 a.m. Saturday, September 7 until 12:01 a.m. Wednesday, September 11. The Chignik Lagoon regulatory markers will be at Mensis Point. The markers in Ivanof Bay Section off the Perryville District will be at Road Island.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.350. CLOSED WATERS (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chinook Bay, Central District, Eastern, Western, and Perryville Districts will open to commercial salmon fishing from 12:01 a.m. Saturday, September 7, until 12:01 a.m. Wednesday, September 11.

5 AAC 15.350. CLOSED WATERS.(1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 158°38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158°38.10' W. long..

JUSTIFICATION:

A fishery is warranted in all Districts to harvest coho that are surplus to escapement needs. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

-Continued-

EMERGENCY ORDER NO. 4-F-L-42-96

Issued at: Chignik, AK.,
2:00 p.m. September 12, 1996

EFFECTIVE DATE: 9:00 a.m.
Saturday, September 14, 1996

Expiration Date: 9:00 p.m.
Wednesday, September 16 unless
superseded by subsequent emergency
order.

EXPLANATION:

The Chignik Bay, Central, Eastern, Western and Perryville Districts will open to commercial salmon fishing for 36 hours from 9:00 a.m. to 9:00 p.m. (12 hours per day) Saturday through Monday, September 14 until September 16. The Chignik Lagoon regulatory markers will be at Mensis Point. The markers in Ivanof Bay Section off the Perryville will be at Road Island.

REGULATION:

5 AAC 15.320. WEEKLY FISHING PERIODS (a), and 5 AAC 15.350. CLOSED WATERS. (1) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) The Chignik Bay, Central District, Eastern, Western, and Perryville Districts will open to commercial salmon fishing from 9:00 a.m. to 9:00 p.m. (12 hours per day) Saturday through Monday, September 14 through September 16.

5 AAC 15.350. CLOSED WATERS. (1) All waters upstream from a line drawn between markers from Mensis Point at approximately 56°16.15' N. lat., 150° 38.10' W. long. to the opposite shore at approximately 56°16.10' N. lat., 158° 38.10' W. long..

JUSTIFICATION:

A fishery is warranted in all Districts to harvest coho that are surplus to escapement needs. All fishermen are cautioned that they must comply with the wanton waste law as described in 5 AAC 93.310. WASTE OF SALMON.

-Continued-

EMERGENCY ORDER NO. 4-F-L-43-96

Issued at: Chignik, AK.,
5:00 p.m. September 17, 1996

EFFECTIVE DATE: 12:01 a.m.
Friday, September 21, 1996

Expiration Date: 12:00 p.m.
Thursday, October 31, 1996.

EXPLANATION:

The Chignik Management Area will close to commercial salmon fishing for the 1996 season at 12:01 a.m. Friday, September 21. The season will close to conserve sockeye salmon for subsistence use in the Chignik Lakes watershed.

REGULATION:

5 ACC 15.320. WEEKLY FISHING PERIODS. (a) and 5 AAC 15.310. FISHING SEASONS. (a) are amended to read:

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) Salmon may be taken in the Chignik Management Area from 11:30 a.m. June 10 until 12:01 a.m. September 21.

5 AAC 15.310. FISHING SEASONS.(a) The Chignik Management Area will close to commercial salmon fishing for the 1996 season at 12:01 Saturday, September 21.

JUSTIFICATION:

According to a compromise agreement between commercial and subsistence users, if after September 15 subsistence users are concerned about the availability of sockeye salmon then the commercial fishery could be curtailed. The department concurs with subsistence users that catches have been low (less than 100 sockeye per boat) and closed the fishery. All fishermen are cautioned that they must comply with the wanton waste law as described in 5AAC 93.310. WASTE OF SALMON.

CHAPTER 15. CHIGNIK AREA.

PLEASE NOTE THAT AS OF 1996 ALL LONGITUDE AND LATITUDE COORDINATES IN THE CHIGNIK AREA HAVE BEEN CONVERTED TO DECIMAL MINUTES AND ARE BASED ON THE NORTH AMERICAN DATUM OF 1983.

ARTICLE 1. DESCRIPTION OF AREA.

5 AAC 15.001. APPLICATION OF THIS CHAPTER. Requirements set forth in this chapter apply to commercial fishing only, unless otherwise specified. Subsistence fishing regulations affecting commercial fishing vessels or affecting any other commercial fishing activity are set forth in the subsistence fishing regulations in chs. 01 and 02 of this title.

5 AAC 15.100. DESCRIPTION OF AREA. The Chignik area includes all waters of Alaska on the south side of the Alaska Peninsula enclosed by 156° 20.22' W. long., (the longitude of the southern entrance to Imuya Bay near Kilokak Rocks) and a line extending 135° southeast from Kupreanof Point.

ARTICLE 2. FISHING DISTRICTS.

5 AAC 15.200. FISHING DISTRICTS. (a) The Eastern District includes all waters from the southernmost marker 500 yards from the mouth of Aniakchak Lagoon to the eastern boundary of the Chignik Area.

(1) Agripina Section: all waters between Kilokak Rocks at 57° 11.32' N. lat., 156° 20.22' W. long., and Cape Providence at 56° 58.67' N. lat., 156° 33.47' W. long.;

(2) Chiginagak Section: all waters between Cape Providence at 56° 58.67' N. lat., 156° 33.47' W. long., and Cape Kuyuyukak at 56° 53.85' N. lat., 156° 49.72' W. long.;

(3) Nakalilok-Yantarni Section: all waters between Cape Kuyuyukak at 56° 53.85' N. lat., 156° 49.72' W. long., and Cape Kunmik at 56° 45.88' N. lat., 157° 12.05' W. long.;

(4) Big River Section: all waters of Amber and Aniakchak Bays bounded by 157° 12.05' W. long., and the latitude of the southernmost marker 500 yards from the mouth of Aniakchak Lagoon.

(b) The Chignik Bay District includes all waters of Chignik Bay and Lagoon west of a line from a point near Jack Bay at 56° 18.23' N. lat., 158° 15.02' W. long., to Neketa Creek at 56° 24.12' N. lat., 158° 27.73' W. long.

(c) The Western District includes all waters south and west of Jack Point at 56° 17.48' N. lat., 158° 12.05' W. long., excluding the waters of Chignik Lagoon, to Coal Cape at 55° 53.42' N. lat., 159° 00.45' W. long.

(1) Castle Cape Section: all waters between Jack Point at 56° 17.48' N. lat., 158° 12.05' W. long. and Cape Ikti at 55° 58.75' N. lat., 158° 30.00' W. long.;

(2) Dorner Bay Section: all waters between Cape Ikti at 55° 58.75' N. lat., 158° 30.00' W. long., and a point on the west side of Dorner (Kuiukta) Bay's entrance at 55° 57.00' N. lat., 158° 40.00' W. long.;

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(3) Mitrofanina Section: all waters, including Mitrofanina Island, between a point on the west side of Dorner (Kuiukta) Bay's entrance at 55° 57.00' N. lat., 158° 40.00' W. long., and Stirni Point at 55° 54.73' N. lat., 158° 55.27' W. long.;

(4) Anchor Bay Section: all waters between Stirni Point at 55° 54.73' N. lat., 158° 55.25' W. long., and Coal Cape at 55° 53.42' N. lat., 159° 00.45' W. long.

(d) The Perryville District includes all waters between Coal Cape at 55° 53.42' N. lat., 159° 00.45' W. long. and Kupreanof Point at 55° 33.98' N. lat., 159° 35.88' W. long.

(1) Perryville Section: all waters, including the Chiachi Islands, between Coal Cape at 55° 53.42' N. lat., 159° 00.45' W. long., and Coal Point at 55° 51.47' N. lat., 159° 18.95' W. long.;

(2) Humpback Bay Section: all waters, including Paul and Jacob Islands, between Coal Point at 55° 51.47' N. lat., 159° 18.95' W. long., and Alexander Point at 55° 47.32' N. lat., 159° 24.68' W. long.;

(3) Ivanof Bay Section: all waters between Alexander Point at 55° 47.32' N. lat., 159° 24.68' W. long., and Kupreanof Point at 55° 33.98' N. lat., 159° 35.88' W. long.

(e) The Central District includes all waters, excluding the waters of the Chignik Bay District, between a point near Jack Bay at 56° 18.23' N. lat., 158° 15.02' W. long., and the southernmost marker 500 yards from the mouth of Aniakchak Lagoon.

(1) Cape Kumlik Section: all waters, including Sutwik Island, between the latitude of the southernmost marker 500 yards from the mouth of Aniakchak Lagoon and 157° 40.53' W. long. on the southwest side of Cape Kumlik;

(2) Kujulik Section: all waters between a point on the southwest side of Cape Kumlik at 56° 36.48' N. lat., 157° 40.53' W. long., and a point on Cape Kumliun at 56° 28.58' N. lat., 157° 51.55' W. long.;

(3) Outer Chignik Bay Section: all waters, including Nakchamik Island, between a point on Cape Kumliun at 56° 28.58' N. lat., 157° 51.55' W. long., and a point near Jack Bay at 56° 18.23' N. lat., 158° 15.02' W. long., excluding the Chignik Bay District.

ARTICLE 3. SALMON FISHERY.

5 AAC 15.310. FISHING SEASONS. (a) In the Chignik Bay District, salmon may be taken only from June 1 through October 31.

(b) The Perryville, Western, Central and Eastern Districts are opened by emergency order.

5 AAC 15.320. WEEKLY FISHING PERIODS. (a) Salmon fishing periods shall be established by emergency order.

(b) Repealed 3/13/75.

5 AAC 15.330. GEAR. (a) Salmon may be taken only by purse seine and hand purse seine.

(b) Repealed 4/24/80.

5 AAC 15.332. SEINE SPECIFICATIONS AND OPERATIONS. (a) In the Eastern, Central, Western and Perryville Districts no purse seine less than 100 fathoms or more than 225 fathoms in length may be used.

(b) In the Eastern, Central, Western and Perryville Districts no hand purse seine less than 100 fathoms or more than 225 fathoms in length may be used.

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(c) In the Chignik Bay District, purse seines and hand purse seines may not be less than 100 fathoms or more than 125 fathoms in length.

(d) No seine may be less than three fathoms nor more than 375 meshes in depth; in addition, up to twenty-five meshes of chafing gear with a maximum mesh size of seven inches may be used.

(e) No lead may be more than 75 fathoms in length. The aggregate length of seine and lead may not be more than 225 fathoms in the Eastern, Central, Western and Perryville Districts.

(f) When a purse seine or hand purse seine is in the water for the purpose of taking fish, the seine shall be attached to the licensed vessel operating the gear.

5 AAC 15.350. CLOSED WATERS. Salmon may not be taken in the following waters:

(1) Chignik Lagoon:

(A) southwest of a line from the tip of Hume Point to the northside of Chignik Island (56° 17.42' N. lat., 158° 35.50' W. long.);

(B) Mallard Duck Bay: southwest of a line from the tip of Green Point to Chignik Island (56° 16.63' N. lat., 158° 34.90' W. Long.);

(2) Kilokak Rocks Bay: northwest of a line from the southern entrance of the bay at 57° 09.78' N. lat., 156° 20.78' W. long., then to the opposite shore 500 yards northeast of the mouth of Kilokak Rocks Creek at 57° 10.07' N. lat., 156° 20.78' W. long.;

(3) Agripina River: west of a line from 57° 06.72' N. lat., 156° 28.22' W. long., to 57° 06.44' N. lat., 156° 28.67' W. long.;

(4) Chiganagak Bay: north of a line from 57° 00.50' N. lat., 156° 45.75' W. long., to 57° 01.68' N. lat., 156° 41.97' W. long.;

(5) Nakalilok Lagoon: the lagoon and within 500 yards of the entrance;

(6) Yantarni Lagoon: the lagoon and within 500 yards of the entrance;

(7) Aniakchak River: northwest of a line from approximately 500 yards northeast of the mouth at 56° 45.86' N. lat., 157° 28.88' W. long., to an ADF&G regulatory marker on the southern tip of the island directly off the mouth and then to approximately 1,000 yards southwest of the mouth at 56° 45.28' N. lat., 157° 31.53' W. long.;

(8) Aniakchak Lagoon: the lagoon and within 500 yards of the entrance;

(9) Kujulik Bay: the southwest end of the bay southwest of a line from 56° 35.85' N. lat., 157° 59.12' W. long., to the opposite shore at 56° 34.50' N. lat., 157° 54.63' W. long.;

(10) Portage Bay: west of a line from 56° 11.68' N. lat., 158° 33.07' W. long., to 56° 10.58' N. lat., 158° 33.07' W. long.;

(11) Ivan Bay: north of a line from the ADF&G regulatory marker on the northwest shore 1,000 yards from the stream mouth to the ADF&G regulatory marker on the southeast shore 750 yards from the stream mouth;

(12) Humpback Bay: within 1,000 yards of the terminus of Humpback Bay stream at 55° 52.68' N. lat., 159° 20.12' W. long.;

(13) Ivanof Bay: all waters northwest of a line from a point on the northeast shore at 55° 52.42' N. lat., 159° 28.40' W. long. to a point on the north end of the spit at 55° 50.95' N. lat., 159° 31.02' W. long. (all waters northwest of Road Island are closed);

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(14) Alfred Creek: before August 1, the 500-yard closure at the terminus described in 5 AAC 39.290 does not apply; the 500-yard closure does apply from August 1 to the end of the salmon fishing season;

(15) Dago Frank Creek: before August 1, the 500-yard closure at the terminus described in 5 AAC 39.290 does not apply; the 500-yard closure does apply from August 1 to the end of the salmon fishing season;

(16) Hook Bay: northwest of a line from the tip of Hook Bay Spit at 56° 30.07' N. lat., 158° 08.18' W. long., to a point on the north side of the bay at 56° 31.10' N. lat., 158° 07.65' W. long.;

(17) unnamed stream at 55° 48.98' N. lat., 159° 24.45' W. long.; the 500-yard closure at the terminus described in 5 AAC 39.290 does not apply;

(18) Lake Bay: all waters southwest of a line drawn at the entrance to Lake Bay at 56° 18.80' N. lat., 158° 17.62' W. long. extending across the entrance to Lake Bay;

(19) Mud Bay: all waters southwest of a line from 56° 19.42' N. lat., 158° 25.10' W. long. extending across the entrance to Mud Bay;

(20) from July 6 through August 31, all waters of Alaska in the Ivanof Bay Section, between a line extending 135° from Kupreanof Point at 55° 33.98' N. lat., 159° 35.88' W. long., and a line extending 65° from 55° 34.90' N. lat., 159° 37.10' W. long.

5 AAC 15.355. REPORTING REQUIREMENTS. (a) The operator of a floating salmon processing vessel or tender, or a shorebased processing operation, and a company employing aircraft used for transporting salmon, shall report in person, or by radio or telephone, to a local representative of the department located in the management area of intended operation before the start of processing or buying operations. The report must include the location and the date of intended operation, and identify and describe each vessel or other method of transport employed in hauling or processing salmon.

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

5 AAC 15.360. EASTERN DISTRICT SALMON MANAGEMENT PLAN. (a) The department shall open and close the Eastern District for commercial salmon fishing concurrently with the Chignik Bay and Central Districts. The department may close the Eastern District for the period between the first (Black Lake) and second (Chignik Lake) sockeye salmon runs.

(b) The department shall close the Eastern District on July 15 to allow evaluation of the strength of the pink and chum salmon runs.

(c) The department shall close the Eastern District when it determines that the salmon being harvested in that district are from stocks that do not originate from spawning areas located in the Chignik Area.

Appendix F. Chignik Management Area Herring Regulations.

ARTICLE 9. - STATISTICAL AREA L

CHIGNIK AREA.

5 AAC 27.550. DESCRIPTION OF AREA. Statistical Area L includes all waters on the south side of the Alaska Peninsula enclosed by 156°20'13" W. long. (the longitude of the southern entrance to Imuya Bay near Kilokak Rocks) and a line extending southeast (135°) from the southernmost tip of Kupreanof Point.

5 AAC 27.555. DESCRIPTION OF DISTRICTS. Districts are as described in 5 AAC 15.200.

5 AAC 27.560. FISHING SEASONS AND WEEKLY FISHING PERIODS. (a) Herring may be taken from April 15 through June 30 (sac roe season) and from August 15 through February 28 (food and bait season).

(b) Herring may be taken only during periods established by emergency order.

5 AAC 27.565. GEAR. (a) Herring may be taken only by purse seines.

(b) A herring fishing vessel may operate or assist in operating only one legal limit of herring fishing gear in the aggregate.

(c) Unhung gear sufficient for mending purposes may be carried aboard fishing vessels.

(d) Herring fishing nets shall be measured, either wet or dry, by determining the maximum length of cork line when the net is fully extended with traction applied at one end only.

(e) The interim-use or entry permit holder is responsible for operation of the net.

(f) The use of leads with any net gear used for commercial herring fishing is prohibited during the herring sac roe season.

5 AAC 27.575. SEINE SPECIFICATIONS AND OPERATIONS. No purse seine may be more than 1,000 meshes in depth or more than 100 fathoms in length.

5 AAC 27.580. WATERS CLOSED TO HERRING FISHING. During the period June 12 through October 31, herring may not be taken in waters described in 5 AAC 15.350 and 5 AAC 39.290.

5 AAC 27.590. BUYER AND TENDER REPORTING REQUIREMENTS. In addition to the requirements of 5 AAC 39.130(f) each tender operator and each buyer or his agents shall report in person to and register with a local representative of the department upon arrival in the statistical area before commencing operations and before changing location of the operation. Each buyer shall:

(1) identify all vessels to be employed in transporting or processing herring and shall register such vessels with a local representative of the department located in the statistical area before transporting or processing herring;

(2) make daily reports of all herring purchased from fishermen, and other processing records as specified by a local representative of the department, and

(3) submit fish tickets before departure from the area and no later than 10 days after termination of buying operations in the area, or as otherwise specified by a local representative of the department.

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