

**Fishery Management Report No. 17-16**

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**Chignik Management Area Salmon Annual  
Management Report, 2016**

by

**Dawn M. Wilburn**

and

**Lucas K. Stumpf**

July 2017

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



## Symbols and Abbreviations

The following symbols and abbreviations, and others approved for the *Système International d'Unités* (SI), are used without definition in the following reports by the Divisions of Sport Fish and of Commercial Fisheries: Fishery Manuscripts, Fishery Data Series Reports, Fishery Management Reports, and Special Publications. All others, including deviations from definitions listed below, are noted in the text at first mention, as well as in the titles or footnotes of tables, and in figure or figure captions.

|   |                    |  |   |   |                         |
|---|--------------------|--|---|---|-------------------------|
| <b>Weights and measures (metric)</b>    |                    | <b>General</b>                                   |   | <b>Mathematics, statistics</b>  |                         |
| centimeter                              | cm                 | Alaska Administrative Code                       | AAC   | <i>all standard mathematical signs, symbols and abbreviations</i>             |                         |
| deciliter                               | dL                 | all commonly accepted abbreviations              | e.g., Mr., Mrs., AM, PM, etc.               | alternate hypothesis  | $H_A$                   |
| gram                                    | g                  | all commonly accepted professional titles        | e.g., Dr., Ph.D., R.N., etc.                | base of natural logarithm   | $e$                     |
| hectare                                 | ha                 | at   | @   | catch per unit effort   | CPUE                    |
| kilogram                                | kg                 | compass directions:                              |   | coefficient of variation  | CV                      |
| kilometer                               | km                 | east   | E   | common test statistics  | (F, t, $\chi^2$ , etc.) |
| liter                                   | L                  | north  | N   | confidence interval   | CI                      |
| meter                                   | m                  | south  | S   | correlation coefficient   |                         |
| milliliter                              | mL                 | west   | W   | (multiple)  | R                       |
| millimeter                              | mm                 | copyright  | ©   | correlation coefficient (simple)  | r                       |
|   |                    | corporate suffixes:                              |   | covariance  | cov                     |
| <b>Weights and measures (English)</b>   |                    | Company  | Co.   | degree (angular)  | $^\circ$                |
| cubic feet per second                   | ft <sup>3</sup> /s | Corporation                                      | Corp.                                       | degrees of freedom  | df                      |
| foot                                    | ft                 | Incorporated                                     | Inc.  | expected value  | $E$                     |
| gallon                                  | gal                | Limited  | Ltd.  | greater than  | >                       |
| inch                                    | in                 | District of Columbia                             | D.C.  | greater than or equal to  | $\geq$                  |
| mile                                    | mi                 | et alii (and others)                             | et al.                                      | harvest per unit effort   | HPUE                    |
| nautical mile                           | nmi                | et cetera (and so forth)                         | etc.  | less than   | <                       |
| ounce                                   | oz                 | exempli gratia                                   | e.g.  | less than or equal to   | $\leq$                  |
| pound                                   | lb                 | (for example)                                    |   | logarithm (natural)   | ln                      |
| quart                                   | qt                 | Federal Information Code                         | FIC   | logarithm (base 10)   | log                     |
| yard                                    | yd                 | id est (that is)                                 | i.e.  | logarithm (specify base)  | log <sub>2</sub> , etc. |
|   |                    | latitude or longitude                            | lat or long                                 | minute (angular)  | '                       |
| <b>Time and temperature</b>             |                    | monetary symbols (U.S.)                          | \$, ¢                                       | not significant   | NS                      |
| day                                     | d                  | months (tables and figures): first three letters | Jan, ..., Dec                               | null hypothesis   | $H_0$                   |
| degrees Celsius                         | °C                 | registered trademark                             | ®   | percent   | %                       |
| degrees Fahrenheit                      | °F                 | trademark  | ™   | probability   | P                       |
| degrees kelvin                          | K                  | United States (adjective)                        | U.S.  | probability of a type I error (rejection of the null hypothesis when true)    | $\alpha$                |
| hour                                    | h                  | United States of America (noun)                  | USA   | probability of a type II error (acceptance of the null hypothesis when false) | $\beta$                 |
| minute                                  | min                | U.S.C.   | United States Code                          | second (angular)  | "                       |
| second                                  | s                  | U.S. state                                       | use two-letter abbreviations (e.g., AK, WA) | standard deviation  | SD                      |
| <b>Physics and chemistry</b>            |                    |  |   | standard error  | SE                      |
| all atomic symbols                      |                    |  |   | variance  |                         |
| alternating current                     | AC                 |  |   | population sample   | Var                     |
| ampere                                  | A                  |  |   | sample  | var                     |
| calorie                                 | cal                |  |   |   |                         |
| direct current                          | DC                 |  |   |   |                         |
| hertz                                   | Hz                 |  |   |   |                         |
| horsepower                              | hp                 |  |   |   |                         |
| hydrogen ion activity (negative log of) | pH                 |  |   |   |                         |
| parts per million                       | ppm                |  |   |   |                         |
| parts per thousand                      | ppt, ‰             |  |   |   |                         |
| volts                                   | V                  |  |   |   |                         |
| watts                                   | W                  |  |   |   |                         |

***FISHERY MANAGEMENT REPORT NO. 17-16***

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## ABSTRACT

This report summarizes the 2016 commercial Pacific salmon *Oncorhynchus* spp. fisheries within the Chignik Management Area (CMA; Area L). The CMA encompasses all coastal waters and inland drainages of the northwest Gulf of Alaska between Kilokak Rocks and Kupreanof Point. All 5 species of North American Pacific salmon were commercially harvested in the CMA: Chinook *O. tshawytscha*, sockeye *O. nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum *O. keta* salmon. In 2016, the Chignik River Chinook salmon escapement of 1,843 fish was within the escapement goal range of 1,300 to 2,700 fish. The 2016 Chignik River early-run sockeye salmon escapement of 418,290 fish was within the early-run escapement goal range of 350,000 to 450,000 fish. The late-run sockeye salmon escapement of 354,884 fish was also within the late-run escapement goal range of 275,000 to 400,000 fish. The CMA 2016 harvest of Chinook salmon was 20,719 fish. The total 2016 CMA sockeye salmon harvest of 1,394,091 fish (including the department's test fish harvest) was below the most recent 5-year average and similar to the recent 10- and 20-year averages. CMA coho salmon harvest of 94,397 fish was below the most recent 5-year average and similar to the 10- and 20-year averages. Estimated 2016 peak pink salmon escapement in the CMA was very poor and well below the recent 5-, 10-, and 20-year averages. The 2016 indexed peak pink salmon escapement estimate of 68,100 fish was well below the even-year sustainable escapement goal (SEG) range of 170,000 to 280,000 fish. The 2016 CMA harvest of 140,913 pink salmon was also well below all recent averages. Estimated peak chum salmon escapement was also below recent averages however, the indexed peak escapement of 69,900 chum salmon was within the SEG range of 45,000 to 110,000 fish. In 2016, 118,435 chum salmon were harvested which was below recent 5-, 10-, and 20-year average harvests. A total of 69 CMA permit holders made deliveries in 2016. The exvessel value for commercial salmon harvest in the CMA for 2016 totaled approximately \$8.64 million.

Key words: Chignik Management Area (CMA), Chignik River, *Oncorhynchus*, salmon, Alaska Board of Fisheries, 2016 commercial fisheries management, Chignik Salmon Management Plan, harvest, escapement

## INTRODUCTION

The Alaska Department of Fish and Game (ADF&G) manages all commercial Pacific salmon *Oncorhynchus* spp. fisheries within the Chignik Management Area (CMA; Area L). The CMA encompasses all coastal waters and inland drainages of the northwest Gulf of Alaska between Kilokak Rocks and Kupreanof Point (Figure 1). For management purposes, these waters are divided into 5 fishing districts: Eastern, Central, Chignik Bay, Western, and Perryville districts. Each district is further broken down into sections and statistical reporting areas (Figure 2).

There are 5 species of Pacific salmon that are commercially harvested in the CMA: Chinook *Oncorhynchus tshawytscha*, sockeye *O. nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum *O. keta* salmon. Sockeye salmon are the primary species targeted and the most important commercial and subsistence salmon species in the CMA. ADF&G manages all CMA commercial salmon resources by emergency order based on inseason evaluation of local stock abundance and escapement objectives. The majority of fishing effort is concentrated on salmon returning to the Chignik River watershed. Commercial salmon fishing is the economic mainstay for 5 villages: Chignik Bay, Chignik Lagoon, Chignik Lake, Perryville, and Ivanof Bay (Figure 1).

This report provides a summary of the 2016 commercial salmon management plan, fishing activity, escapements, and harvests in the CMA. Most tables in this report have been verified against the Westward Region electronic fish ticket (1970 to present) and historical escapement databases (1960 to present). The salmon harvest estimates reported in this document were summarized from the fish ticket database on November 1, 2016. Data published in this report supersede any data previously published.

# COMMERCIAL SALMON

## OVERVIEW OF MANAGEMENT PLANS

Several management plans have been used to manage the CMA commercial salmon fishery in the last decade. The 2016 CMA commercial salmon fishery was managed based on the *Chignik Salmon Management Plan* (5 AAC 15.357). Sockeye salmon bound for the Chignik River watershed were also allocated under 2 additional management plans: the *Cape Igvak Salmon Management Plan* (5 AAC 18.360) in the Kodiak Management Area (Area K) and the *Southeastern District Mainland (SEDM) Salmon Management Plan* (5 AAC 09.360) in the Alaska Peninsula Management Area (Area M; Figure 1).

### **Chignik Salmon Management Plan**

The *Chignik Salmon Management Plan* (5 AAC 15.357) was originally adopted in 1999. The goal of this plan is to allow traditional salmon fisheries in the CMA while achieving the established escapement goals for early-run (Black Lake) and late-run (Chignik Lake) sockeye salmon (Table 1) as well as local stocks of Chinook, pink, coho, and chum salmon. Purse seines and hand purse seines are the only legal commercial salmon fishing gear within the CMA. Legal seine gear ranges from 100 to 125 fathoms in length in the Chignik Bay District and from 100 to 225 fathoms in length in all other districts (5 AAC 15.332). To assist management efforts, the management plan is organized into districts or groups of districts: the Chignik Bay and Central districts, the Eastern District, and the Western and Perryville districts (Figure 2).

### **Cape Igvak Salmon Management Plan**

The *Cape Igvak Salmon Management Plan* (5 AAC 18.360) was officially adopted in 1978 and has since undergone several amendments to change allocation criteria in the plan (Jackson et al. 2015). The Cape Igvak Section is the westernmost section of Area K, located directly northeast of the CMA (Figure 1). Under the current plan criteria, from June 1 through July 25, 90% of the sockeye salmon harvested within the Cape Igvak Section are allocatively considered to be Chignik-bound (5 AAC 18.360(d)). If the harvestable surplus of sockeye salmon in the CMA is above or expected to be above certain thresholds (5 AAC 18.360 (a-c)), then 15% of the total Chignik sockeye salmon harvest (total includes sockeye salmon caught in the CMA, in the Cape Igvak Section, and within certain portions of SEDM) is allocated to Area K fishermen. After July 25, there are no allocative ties between the CMA and Area K.

### **Southeastern District Mainland Salmon Management Plan**

The *Southeastern District Mainland Salmon Management Plan* (5 AAC 09.360) was formally adopted in 1980 and has undergone several amendments, mostly to allocation criteria (Keyse et al. 2016). The SEDM is composed of a group of sections at the eastern end of Area M, located directly southwest of the CMA (Figure 1). Under the current plan criteria, from June 1 through July 25, 80% of the sockeye salmon harvested within certain SEDM sections during specific times are allocatively considered to be Chignik-bound. If the harvestable surplus of sockeye salmon in the CMA is above or expected to be above certain thresholds, then 7.6% of the total estimated CMA sockeye salmon harvest is allocated to SEDM fishermen (5 AAC 09.360 (a-g)). After July 25, there are no allocative ties between the CMA and Area M.

## **2016 CHIGNIK SALMON MANAGEMENT**

The first commercial salmon fishing period in 2016 began on June 4, and the last commercial fishing period ended on August 31 (Figure 3). A total of 69 CMA commercial salmon permit holders (excluding the ADF&G test fishery permit) participated in the 2016 commercial salmon season (Table 2).

Salmon were delivered to 4 locations in 2016: a floating processor operated by Trident Seafoods located in Chignik Bay, Trident Seafoods shore based processor in Sand Point, Ocean Beauty Seafoods in Alitak, and International Seafoods of Alaska in Kodiak. Processors filleted or headed and gutted the majority of Chignik salmon.

### **Chignik Bay and Central Districts Commercial Salmon Fishery**

The installation of the Chignik River weir was completed on May 22 at approximately 6:00 PM, with the first full day of escapement enumeration on May 23. Sockeye salmon escapement into the Chignik River in late May and early June was well above average and was tracking over the upper range of the escapement goal (Tables 1, 3, and 4). As a result of the early escapement, commercial fishing in the Chignik Bay and Central districts as well as the Inner Castle Cape Subsection of the Western District, opened for 48 hours on June 4. This initial fishing period was extended 24 hours and then closed for 48 hours to allow additional escapement into the Chignik River. Harvest levels were low during the initial early season fishing period; however, harvests increased significantly during the next commercial fishing period. Several closures ranging from 36 to 48 hours were necessary between fishing periods in June to allow for additional escapement into the Chignik River after drops in daily escapement and harvest during the fishing periods. A test fish was conducted in Chignik Lagoon on June 22 with the main intent of generating revenue to fund the weir and management operations. Results of the test fish also showed that there was no significant buildup of salmon; instead, fish were entering the lagoon and quickly moving to the river. This observed behavior was consistent throughout June and July.

Several fishing periods occurred in the Chignik Bay and Central districts throughout July. These fishing periods were interspersed by short closures ranging from 24 to 36 hours. Genetic samples were collected at the weir beginning June 27 to apportion the early and late runs during the peak overlap period, which typically occurs late-June through mid-July. The results of each genetic sampling period were usually available within 36 to 48 hours of the sampling date and provided crucial information for inseason management decisions. The initial set of 2016 genetic sample results revealed low proportions of late-run sockeye salmon indicating that the run may be late. The second and third sample results, however, showed a significant shift in the late run proportion (from 1.2% in the first sample to 37.4% in the third sample; Table 4). This shift in the proportion of late run fish reflected an average run transition timing from early-run sockeye salmon to late-run sockeye salmon. Information on the run transition from the genetic sampling results were used on a daily basis to make management decisions, and several extensions were made to current fishing periods to allow harvest on surplus early run fish while the late run tracked minimum escapement objectives. Short closures between fishing periods occurred when daily escapement and harvest dropped to allow additional escapement into the river.

After a 7-day closure, commercial salmon fishing reopened in the Chignik Bay and Central districts on August 2. The districts were open for the remainder of the month except for one short

closure from August 12 to August 14. Commercial salmon fishing was closed at the beginning of September to ensure that the 50,000 fish inriver run goal (IRRG) for sockeye salmon into the Chignik River from September 1–30 was achieved. There did not appear to be a harvestable surplus available in early September to allow a fishery and achieve the goal, and therefore the fishery remained closed.

The Chignik Lagoon closed waters markers alternated between Humes Point and Mensis Point during the 2016 salmon season (Figure 4). Closed waters at Humes Point were usually established at the beginning of a fishing period. Establishing closed waters markers at Humes Point concentrated fishing effort in the lower lagoon while allowing the department to assess the magnitude of salmon entering the lagoon. If the Humes Point markers were used at the beginning of a fishing period, the markers were typically moved to Mensis Point if that fishing period was extended. A summary of emergency orders outlining the commercial salmon fishery in the Chignik Bay and Central districts is located in Appendix A.

### **Eastern District Commercial Salmon Fishery**

The Eastern District, by regulation (5 AAC 15.357 (c)(1)), opened concurrently with the Chignik Bay and Central districts during June (Figures 2 and 3). In 2016, the Eastern District remained closed for most of July through August due to low pink salmon escapement into local streams. Inseason aerial surveys indicated that pink salmon escapement in 2016 was well below historical averages while chum salmon escapement was closer to recent averages. In total, the Eastern District was open to commercial salmon fishing for 24 days (Figure 3). Appendix A provides a summary of emergency orders outlining the commercial salmon fishery in the Eastern District.

### **Western and Perryville Districts Commercial Salmon Fishery**

By regulation, the Inner Castle Cape Subsection of the Western District opened concurrently with the Chignik Bay and Central districts throughout the commercial fishing season (5 AAC 15.357 (b); Figures 2, 3, and 5). Also by regulation (5 AAC 15.357 (e)), the Western District, excluding the Inner Castle Cape Subsection, opened to commercial salmon fishing for two 48-hour periods with a mandatory minimum 48-hour closure between fishing periods through July 5. The first 48-hour fishing period began on June 16 and the second fishing period began on June 29. Both of these fishing periods were opened concurrently with the Chignik Bay and Central districts.

Excluding the Inner Castle Cape Subsection of the Western District, and the two 48-hour fishing periods, the Western and Perryville districts are closed to commercial salmon fishing through July 5 (5 AAC 15.357 (d)). Beginning July 6, these districts are managed based on the run strength of late-run sockeye salmon until the end of the transition period, which occurs in mid-July. Once the transition period ends, these districts are managed based on local pink and chum salmon escapements, as well as late-run sockeye salmon escapement into the Chignik River.

On July 9, the Western and Perryville districts opened to commercial salmon fishing for a period of 50 hours with an additional 50-hour extension based on adequate late-run escapement. The commercial fishing period closed on July 13 after daily harvest levels decreased and daily sockeye salmon escapement dropped significantly at the weir. In an attempt to evaluate early pink salmon runs and provide early harvest opportunity on pink salmon, several inner bays in the Central, Western and Perryville districts opened for 48 hours beginning midnight on July 14 (Appendix A). Several boats participated in the fishing period, but a combination of inclement

weather and low availability of pink salmon resulted in a minimal harvest. Two additional commercial fishing periods occurred in the Western and Perryville districts in July based on achievement of late-run Chignik River sockeye salmon escapement objectives. In late July, aerial surveys and harvest information indicated that local chum salmon escapement was adequate while local pink salmon were just beginning to arrive in the CMA. The districts closed on July 26, along with the Chignik Bay and Central districts, to allow additional late-run escapement into the Chignik River. The Western and Perryville districts, excluding the Inner Castle Cape subsection of the Western District, did not reopen for the remainder of July or during August due to poor pink salmon escapement into local streams.

In total, the Western District, excluding the Inner Castle Cape Subsection, was open to commercial salmon fishing for approximately 19 days, and the Perryville District was open for 15 days during 2016 (Figure 3). A summary of emergency orders outlining the commercial salmon fisheries in the Western and Perryville districts is found in Appendix A.

## **ESCAPEMENT AND HARVEST DATA**

### **Stock Separation Techniques and Genetic Stock Identification**

There are 2 genetically distinct sockeye salmon runs (an early and late run) that enter the Chignik River watershed and temporally overlap during late June and July (Templin et al. 1999). Prior to 2004, scale pattern analysis (SPA) was used to differentiate stock composition during this time, and the fishery was managed inseason based on the results of this analysis (Witteveen and Botz 2004). The Chignik SPA program was discontinued prior to the 2004 season due to funding limitations. However, examination of SPA data revealed that, on average, the number of early-run sockeye salmon that passed the Chignik River weir after July 4 was approximately equal to the number of late-run sockeye salmon that passed the weir prior to July 4. From 2004 through 2013 the fishery was managed based on this date; beginning July 4, fishing periods were based on achieving early-run escapement objectives and beginning July 5, fishing periods were based on achieving late-run escapement objectives. Beginning in 2014, in-season management was based on results of genetic sampling of the sockeye salmon runs.

From 2010 through 2012, as part of an Alaska Sustainable Salmon Fund (AKSSF) project, sockeye salmon genetic samples were collected at the Chignik River weir approximately every 4–6 days before, during, and after the overlap period (11 sampling periods; Table 5). Genetic tissue (axillary process) was clipped from approximately 190 sockeye salmon each sampling event and, along with age, length, and sex data, was sent to ADF&G's Gene Conservation Lab where genomic DNA was extracted and assayed for 96 sockeye salmon single nucleotide polymorphisms from each fish. The goal was to provide quantifiable inseason estimates of the contribution of both Black (early run) and Chignik (late run) lakes sockeye salmon stocks to Chignik River escapement estimates (Russell and Foster 2014). During the 2013–2016 salmon seasons, sampling intensity was reduced, with effort focused during the critical overlap period (6 sampling periods; Table 5). In 2013 and 2014, funding was jointly provided by Chignik Regional Aquaculture Association (CRAA) and ADF&G. The 2015 and 2016 Chignik River sockeye salmon genetic sampling was again funded by the AKSSF.

The 2016 samples were analyzed and results were typically available within 36–48 hours after sampling. Stock proportions obtained from genetic sampling were used in season by ADF&G to attribute escapement simultaneously to the early- and late-run sockeye salmon escapement objectives instead of the July 4 date (Tables 4 and 5). Using the genetics proportions, Black and

Chignik lakes run timing was modeled using methods similar to SPA modeling (Witteveen and Botz 2004). The 2016 logistic model estimates show the timing of the late run to be similar to the recent average (2010–2015; Figure 6). Figure 6 highlights the variable nature of the late run timing into Chignik River and suggest that any set cutoff date (i.e., July 4) may not promote biologically sound management (Anderson et al. 2013).

To estimate the total sockeye salmon run size after the season, daily commercial catch information was adjusted to the date when the harvested fish would have passed the weir and the appropriate stock composition estimate was applied to harvested fish. Stock-specific harvest estimates were added to daily escapement to create total daily run size estimates. The early- and late-run sockeye salmon escapement and harvest results can be found in the *2016 Escapement Information* and *2016 Harvest Information* sections of this document.

### **Escapement Goals**

In 2015, a salmon escapement goal review team, including staff from the Division of Commercial Fisheries and the Sport Fish Division, was formed to review salmon escapement goals in the CMA (Schaberg et al. 2015). The team recommended changing the areawide even- and odd-year pink salmon sustainable escapement goal (SEG), as well as the areawide chum salmon SEG. These new goals were targeted beginning in the 2016 season.

The new areawide pink salmon escapement goals were developed based on 8 index systems distributed throughout 4 of the 5 fishing districts of the CMA. These 8 systems have consistently been surveyed and have represented approximately 53% of the annual pink salmon indexed escapement over the last 35 years. The new chum salmon goal was developed based on 6 index systems distributed throughout 4 of the 5 fishing districts that have represented approximately 57% of the annual chum salmon indexed escapement over the last 35 years. During past seasons, ADF&G has surveyed 49 pink salmon index streams and 42 chum salmon index streams in order to monitor the CMA salmon runs and to calculate an escapement estimate based on peak aerial surveys. These streams will continue to be monitored by ADF&G in season to evaluate the health and spatial distribution of the CMA pink and chum salmon runs. The new areawide pink salmon SEG in even years is 170,000–280,000 fish and in odd years 260,000–450,000 fish. The new chum salmon SEG is 45,000–110,000 fish.

There were no changes recommended to any of the other established CMA salmon escapement goals, which remained as follows: the Chignik River Chinook salmon BEG range of 1,300–2,700 fish; the early-run sockeye salmon biological escapement goal (BEG) of 350,000–450,000 fish (Table 1); and the late-run sockeye salmon SEG of 275,000–400,000 fish. The late-run SEG includes an IRRG of 75,000 fish added to the lower bound of the goal range for late season subsistence needs. The IRRG was increased at the 2016 Board of Fisheries (BOF) meeting from 50,000 sockeye salmon (25,000 in August and 25,000 fish September 1–15) to 75,000 sockeye salmon (25,000 fish in August and 50,000 fish September 1–30; 5AAC 15.357(b)(3)(B)).

### **2016 Escapement Information**

In 2016, the majority of salmon escapements to the Chignik River were enumerated through the use of a weir. There were 2 gates in the weir, which were open 24 hours a day to allow for unrestricted fish passage. Underwater video equipment was used to count fish passing through the weir gates. At night, lights incorporated in the camera gates allowed fish to be counted. The number of fish passing the weir, by species, were counted for the first 10 minutes of each hour,

and then multiplied by 6 to obtain hourly escapement estimates. Hourly estimates were summed to provide an estimate of daily fish passage. Video footage from each 10-minute escapement count was recorded and archived.

The majority of the Chignik River Chinook, sockeye, pink, and chum salmon escapements were counted through the weir. Since Dolly Varden *Salvelinus malma* were not commercially harvested or actively managed in the CMA, their escapements are noted in the tables of this document for historical comparisons but not discussed in detail in the escapement section below. The first count of the 2016 season was on May 23, and the last full count of the season was on September 12, after which the weir was removed (Tables 3 and 6). A post-weir sockeye and coho salmon estimate was produced using data collected with Dual-frequency Identification Sonar (DIDSON) from September 13 through September 23. Species apportionment was applied based on fish sampled in the lagoon by a crew using a variable mesh gillnet and reports of subsistence catch by local users. A model using weir count data in early September and DIDSON counts from September 13 to 23 was employed to produce a post-weir and DIDSON estimate from September 24 to 30.

Aerial surveys were flown over the spawning grounds of the Chignik River watershed to assess sockeye salmon spawning escapement levels and distribution. Escapements to other CMA streams were also estimated via aerial surveys.

### ***Chinook Salmon***

The Chignik River is the only stream with substantial Chinook salmon escapement within the CMA. Chinook salmon began entering the Chignik River in early June. The run peaked by early July and was over by mid-August (Table 6; Figure 7). The 2016 Chignik River Chinook salmon escapement of 1,843 fish was below the recent 5-, 10-, and 20-year average escapements (Table 7). Chinook salmon escapement in 2016 was within the BEG range of 1,300–2,700 fish (Figure 8; Schaberg et al. 2015).

### ***Sockeye Salmon***

Chignik River watershed sockeye salmon are managed based on daily escapement objectives by run (Table 1). The Chignik River sockeye salmon early run peaked late June and the late run peaked in mid-July (Table 4; Figure 9). The 2016 estimated total Chignik River watershed sockeye salmon escapement was 773,174 fish, which was slightly below the 5-year average and slightly above the 10- and 20-year averages (Table 8). The early-run escapement was estimated at 418,290 sockeye salmon, which was within the early-run BEG range of 350,000–450,000 fish (Table 8; Figure 10). The late-run escapement was estimated at 354,884 sockeye salmon, within the late-run SEG range of 275,000–400,000 fish (Table 8; Figure 10). The late-run escapement includes weir counts through September 12 (when the weir was removed), DIDSON estimates from September 13–23, and a post DIDSON estimate for the remainder of September (3,464; Table 3).

The late-run Chignik River sockeye salmon IRRG requires 25,000 fish be escaped past the Chignik River weir in August in addition to minimum escapement needs for the month of approximately 50,000 fish (Table 1). This requires that a minimum of 75,000 sockeye salmon escape past the weir in August. The IRRG also requires that 50,000 sockeye salmon be escaped past the weir during September. In 2016, both components of the IRRG were met with approximately 104,000 sockeye salmon in August and approximately 52,000 sockeye salmon in September escaped past the weir (Table 3).

Total peak aerial survey counts of spawning sockeye salmon in Black Lake tributaries were well below all recent averages (Table 9). The low survey counts are partially due to the fact that the Alec River, a major sockeye salmon spawning tributary to Black Lake, was extremely turbid during the 2016 season and the department was unable to fly a successful survey of the river. In past years, the Alec River has made up as much as 90% of the peak sockeye salmon escapement for Black Lake streams surveyed. Total peak aerial survey counts of spawning sockeye salmon in the Chignik Lake and its tributaries were also below the 5-, 10-, and 20-year averages (Table 10).

Sockeye salmon escapements were documented, via aerial survey, in low numbers (generally fewer than 3,000 fish) in several other CMA streams. Due to small run sizes and limited effort, escapement goals for these streams have not been established (Witteveen et al. 2007).

### ***Coho Salmon***

Coho salmon enter CMA drainages in mid-August and generally continue through November. The 2016 Chignik River coho salmon escapement estimate through September 23 (including weir estimates until September 12 and DIDSON estimates September 13–23) was 30,291 fish (Table 6). Coho salmon escapement was monitored, via aerial survey, in low numbers (generally less than 2,000 fish) in several other CMA streams.

Due to late season run timing and limited directed effort, escapement goals for coho salmon have not been established in the CMA (Sagalkin et al. 2013).

### ***Pink Salmon***

In 2016, pink salmon began entering the Chignik River in mid-July and peaked in early August with a total escapement of 486 fish (Table 6). The 2016 pink salmon escapement into the Chignik River was well below the 5-, 10-, and 20-year average escapements (Table 7).

Escapements into other CMA streams were monitored via aerial surveys. In season, streams that have been historically monitored for pink salmon were surveyed and compared to historical run timing and distribution. The 2016 overall combined peak escapement estimates for the CMA was approximately 139,476 pink salmon (Table 11). Pink salmon escapement was very poor in the CMA, as it was throughout much of the state of Alaska in 2016, and was well below historical averages. The current even-year SEG of 170,000–280,000 pink salmon is composed of 8 index streams in 4 of the 5 districts in the CMA. The calculated peak escapement based on aerial surveys of the 8 index streams in 2016 was 68,100 fish and did not achieve the lower bound of the escapement goal range (Table 12).

### ***Chum Salmon***

A limited number of chum salmon return to the Chignik River, mainly in late July and August (Table 6). The 2016 Chignik River chum salmon escapement was 114 fish, which was above the recent 5- and 10-year average escapements, and below the 20-year average escapements (Table 7).

Escapements into other CMA streams were monitored via aerial surveys. In season, streams that have been historically monitored for chum salmon were surveyed and compared to historical run timing and distribution. The 2016 overall combined peak escapement estimate for the CMA was 117,604 chum salmon, which was well below recent averages (Table 13). The current SEG of 45,000–110,000 is based on 6 index streams located in 4 of the 5 CMA districts. The peak aerial surveys from the index streams were summed and compared to the areawide aggregate SEG for



chum salmon (Schaberg et al. 2015). The 2016 CMA chum salmon escapement estimate of 69,900 fish based on the 6 index streams was within the SEG and below the 10-year average (Table 14).

## **2016 Harvest Information**

Commercial salmon harvest information for 2016 was organized into 4 categories. The first category included salmon that were commercially harvested but retained for private use (home pack). The second category included salmon that were harvested and sold as part of ADF&G's test fishery program. The third category included sockeye salmon commercially harvested within the CMA. The final category included sockeye salmon commercially harvested under the Cape Igvak and SEDM management plans; for allocative purposes, the Board of Fisheries has determined that specific portions of these harvests are considered bound for the Chignik River.

Salmon harvested under subsistence regulations or ADF&G's Chignik Lagoon test fishery were not included in any of the harvest allocations. Similarly, home pack fish were not included in the Cape Igvak and SEDM allocations. All harvest information in this report was calculated from the ADF&G fish ticket database and supersedes any previously published data. A complete summary of 2016 commercial salmon harvest and effort can be found in Table 2.

### ***Chinook Salmon***

A total of 20,719 Chinook salmon were harvested from the CMA in 2016, which was well above the 5-, 10-, and 20-year average Chinook salmon harvests (Table 15). A total of 35 fish were retained as home pack from the commercial fishery (Table 16). Most of the CMA Chinook salmon harvest occurred in the Central district (15,865 fish; Table 17). In 2016, Chinook salmon were primarily harvested from early June through mid-August (Table 18).

### ***Sockeye Salmon***

A total of 1,394,091 sockeye salmon were harvested in the CMA during 2016, which was below the 5-year average harvest and similar to the 10- and 20-year average sockeye salmon harvests (Tables 15 and 19). ADF&G's test fishery program harvested 8,073 of these salmon, and a total of 345 fish were reported as retained for home pack from the commercial fishery (Table 19). Most of the CMA sockeye salmon harvest in 2016 occurred in the Chignik Bay and Central districts (Table 20). Sockeye salmon were harvested from early June through August (Table 21).

In 2016, 94,790 sockeye salmon were harvested in the SEDM and 298,470 sockeye salmon in the Cape Igvak Section during the allocation period of June 1 through July 25 (Table 22). The Chignik-bound component of the SEDM harvest totaled 8.1 percent of the total Chignik-bound harvest (allocation 7.6 percent). The Chignik-bound portion of the Cape Igvak harvest was totaled 19.1 percent of the Chignik-bound harvest (allocation 15.0 percent).

The 2016 Chignik River early-run sockeye salmon harvest of 968,018 fish was below the 5-year average yet above the recent 10- and 20-year average harvests (Table 23; Figure 11). The late-run harvest of 819,333 sockeye salmon was above recent average harvests (Table 23; Figure 12). The total Chignik-bound commercial sockeye salmon harvest was 1,787,351 fish for a total run estimate (harvest plus escapement) of 2,560,525 sockeye salmon. The 2016 total harvest was similar to the 10- and 20-year average harvest and well below the recent 5-year average harvest (Figure 13).

In 2016, the Chignik early run was approximately 410,000 sockeye salmon below the forecast, whereas the late run was approximately 117,000 fish over the forecast (Table 24).

### ***Coho Salmon***

A total of 94,397 coho salmon were harvested in the CMA during 2016, which was similar to the 10- and 20-year average and above the 5-year average harvests (Tables 15 and 25). In 2016, all of the commercially-harvested coho salmon were sold to processors (Table 25). The majority of the 2016 coho salmon harvest occurred in the Central, Western, and Perryville districts from early July through August (Tables 26 and 27).

### ***Pink Salmon***

A total of 140,913 pink salmon were harvested during 2016, which was well below the even 5-, 10-, and 20-year average harvests (Tables 15 and 28). All commercially-harvested pink salmon were sold to processors by fishermen, which includes 18 salmon harvested during ADF&G's Chignik Lagoon test fishery (Table 28). The majority of the 2016 pink salmon harvest occurred in the Western and Central districts in July and August (Table 29 and 30).

### ***Chum Salmon***

A total of 118,435 chum salmon were harvested from the CMA during the 2016 season, which was below the 5-, 10-, and 20-year average harvests (Tables 15 and 31). All of the commercially harvested chum salmon were sold to processors by fishermen, including 17 salmon harvested during ADF&G's Chignik Lagoon test fishery (Table 31). Nearly half of the 2016 chum salmon harvest occurred in the Central District while the remaining harvest occurred mostly in the Eastern and Western districts (Table 32). Chum salmon harvest in the CMA occurred from early June through August (Table 33).

## **Economic Value**

In 2016, 69 CMA permit holders (76% of CMA permits) made deliveries (Table 34). The exvessel value of the 2016 CMA salmon harvest was about \$8.6 million, or approximately \$125,200 per active permit holder, which was well below the 5-, 10-, and 20-year average exvessel values (Table 34; Figure 14). The vast majority (93%) of exvessel revenue was from the sale of sockeye salmon (approximately \$116,600 per active permit holder). The 2016 Chinook, coho, pink, and chum salmon harvest provided approximately \$2,600, \$2,300, \$1,400, and \$2,300, respectively, per active permit holder (Table 34).

## **CHIGNIK LAGOON TEST FISHERY**

ADF&G conducts test fisheries in Chignik Lagoon for multiple purposes. The main purpose of the Chignik Lagoon test fisheries is to assess sockeye salmon abundance in Chignik Lagoon during closures. Test fisheries are also used to offset the costs of operations at the Chignik weir (Wilburn 2015).

ADF&G conducted 3 test fisheries in 2016, with a total harvest of 8,073 sockeye salmon (Table 19). The first test fishery occurred in Chignik Lagoon on June 22 and was primarily conducted to generate funds for management operations. A total of 5,218 sockeye salmon were harvested on June 22 (Table 21). Subsequent test fisheries to assess sockeye salmon abundance were conducted on July 8 and July 31.

## **SUBSISTENCE SALMON**

The 2016 CMA subsistence harvest will not be available until after subsistence permits are returned and tabulated in the spring of 2017. Historical subsistence harvests can be found in Table 33.

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## **TABLES AND FIGURES**

Table 1.–Chignik River sockeye salmon escapement objectives, 2016.

| Date    | Black Lake |           | Chignik Lake |           | Date                | Chignik Lake            |                              |
|---------|------------|-----------|--------------|-----------|---------------------|-------------------------|------------------------------|
|         | Lower      | Upper     | Lower        | Upper     |                     | Lower                   | Upper                        |
| June 2  | 2,000      | – 3,500   |              |           | August 1            | 160,000                 | – 297,000                    |
| June 4  | 7,000      | – 9,000   |              |           | August 3            | 167,000                 | – 306,000                    |
| June 6  | 14,000     | – 19,000  |              |           | August 5            | 173,000                 | – 314,000                    |
| June 8  | 25,000     | – 33,000  |              |           | August 7            | 179,000                 | – 321,000                    |
| June 10 | 40,000     | – 51,000  |              |           | August 9            | 184,000                 | – 327,000                    |
| June 12 | 54,000     | – 70,000  |              |           | August 11           | 189,000                 | – 332,000                    |
| June 14 | 71,000     | – 92,000  |              |           | August 13           | 194,000                 | – 337,000                    |
| June 16 | 97,000     | – 124,000 |              |           | August 15           | 199,000                 | – 343,000                    |
| June 18 | 126,000    | – 162,000 |              |           | August 17           | 204,000                 | – 348,000                    |
| June 20 | 155,000    | – 200,000 | 1,000        | – 2,000   | August 19           | 207,000                 | – 350,000                    |
| June 22 | 183,000    | – 235,000 | 1,500        | – 3,500   | August 21           | 211,000                 | – 358,000                    |
| June 24 | 209,000    | – 268,000 | 3,000        | – 6,000   | August 23           | 214,000                 | – 362,000                    |
| June 26 | 242,000    | – 311,000 | 5,500        | – 10,000  | August 25           | 217,000                 | – 366,000                    |
| June 28 | 268,000    | – 344,000 | 8,000        | – 16,000  | August 27           | 220,000                 | – 369,000                    |
| June 30 | 285,000    | – 365,000 | 11,500       | – 22,000  | August 29           | 223,000                 | – 373,000                    |
| July 2  | 300,000    | – 385,000 | 16,000       | – 30,000  | August 31           | 225,000                 | – 375,000                    |
| July 4  | 312,000    | – 401,000 | 21,000       | – 40,000  |                     |                         |                              |
| July 6  | 321,000    | – 413,000 | 27,000       | – 51,000  | September 3         | 234,000                 | – 378,000                    |
| July 8  | 329,000    | – 422,000 | 34,000       | – 65,000  | September 6         | 243,000                 | – 381,000                    |
| July 10 | 334,000    | – 430,000 | 43,000       | – 81,000  | September 9         | 251,000                 | – 384,000                    |
| July 12 | 340,000    | – 436,000 | 53,000       | – 98,000  | September 12        | 258,000                 | – 387,000                    |
| July 14 | 343,000    | – 440,000 | 63,000       | – 118,000 | September 15        | 264,000                 | – 390,000                    |
| July 16 | 345,000    | – 443,000 | 75,000       | – 142,000 | September 18        | 268,000                 | – 392,000                    |
| July 18 | 347,000    | – 446,000 | 88,000       | – 168,000 | September 21        | 271,000                 | – 394,000                    |
| July 20 | 348,000    | – 448,000 | 100,000      | – 192,000 | September 24        | 273,000                 | – 396,000                    |
| July 22 | 349,000    | – 449,000 | 113,000      | – 212,000 | September 27        | 274,000                 | – 398,000                    |
| July 24 | 349,000    | – 449,000 | 123,000      | – 230,000 | September 30        | 275,000                 | – 400,000                    |
| July 26 | 349,000    | – 449,000 | 134,000      | – 251,000 |                     |                         |                              |
| July 28 | 349,000    | – 449,000 | 143,000      | – 269,000 |                     |                         |                              |
| July 30 | 350,000    | – 450,000 | 151,000      | – 284,000 |                     |                         |                              |
|         |            |           |              |           |                     | <b>Escapement Goals</b> |                              |
|         |            |           |              |           | <b>Black Lake</b>   | <b>350,000</b>          | <b>– 450,000</b>             |
|         |            |           |              |           | <b>Chignik Lake</b> | <b>275,000</b>          | <b>– 400,000<sup>a</sup></b> |

Note: Historically, the estimate of the total escapement for early run sockeye salmon was based on Chignik River weir counts through July 4, based on scale pattern analysis studies. After July 4, sockeye salmon through the weir were considered late-run escapement. Beginning in 2014, inseason genetic samples were used to determine the apportionment of the 2 runs during late June and mid-July when the runs overlap instead of the July 4 date. New interim escapement objectives were also established for both runs.

<sup>a</sup> The late-run escapement objective (June 20–September 30) includes the late-run sockeye salmon sustainable escapement goal (SEG; 200,000–400,000), plus an additional 75,000 sockeye salmon inriver run goal (25,000 in August and 50,000 in September) to meet late season subsistence needs. This results in an escapement of at least 75,000 sockeye salmon in August and a management target of 50,000 sockeye salmon in September.

Table 2.—Commercial salmon fishing effort and harvest (including home pack but not including the department’s test fishery harvest), by day in the Chignik Management Area, 2016.

| Date | Effort  |          | Chinook |        | Sockeye |         | Coho           |        | Pink   |        | Chum   |        | Total  |         |
|------|---------|----------|---------|--------|---------|---------|----------------|--------|--------|--------|--------|--------|--------|---------|
|      | Permits | Landings | Number  | Pounds | Number  | Pounds  | Number         | Pounds | Number | Pounds | Number | Pounds | Number | Pounds  |
| 6/4  | 16      | 16       | 29      | 323    | 2,362   | 12,220  | 0              | 0      | 0      | 0      | 269    | 1,923  | 2,660  | 14,466  |
| 6/5  | 42      | 45       | 78      | 954    | 8,177   | 45,002  | 0              | 0      | 29     | 101    | 190    | 1,383  | 8,474  | 47,440  |
| 6/6  | 28      | 28       | 27      | 353    | 6,146   | 33,044  | 0              | 0      | 46     | 161    | 130    | 950    | 6,349  | 34,508  |
| 6/7  | 44      | 44       | 77      | 961    | 10,534  | 58,853  | 0              | 0      | 35     | 102    | 478    | 3,514  | 11,124 | 63,430  |
| 6/8  |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/9  |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/10 | 49      | 53       | 82      | 887    | 29,767  | 171,149 | 0              | 0      | 10     | 20     | 1,052  | 5,004  | 30,911 | 177,060 |
| 6/11 | 55      | 55       | 212     | 1,264  | 28,025  | 153,881 | 0              | 0      | 639    | 2,141  | 813    | 5,808  | 29,689 | 163,094 |
| 6/12 | 45      | 47       | 115     | 1,158  | 21,373  | 125,376 | 0              | 0      | 231    | 497    | 1,539  | 11,109 | 23,258 | 138,140 |
| 6/13 | 40      | 40       | 132     | 1,027  | 25,781  | 155,528 | 135            | 802    | 1,263  | 3,406  | 3,035  | 21,500 | 30,346 | 182,263 |
| 6/14 | 31      | 31       | 46      | 458    | 15,837  | 93,833  | 0              | 0      | 101    | 298    | 116    | 819    | 16,100 | 95,408  |
| 6/15 | 56      | 63       | 128     | 1,136  | 46,263  | 259,998 | 0              | 0      | 816    | 2,797  | 3,897  | 22,591 | 51,104 | 286,522 |
| 6/16 | 49      | 51       | 101     | 847    | 37,243  | 206,834 | 2              | 8      | 820    | 2,487  | 1,753  | 11,266 | 39,919 | 221,442 |
| 6/17 | 55      | 59       | 175     | 1,740  | 48,851  | 286,595 | 4              | 30     | 3,044  | 9,648  | 7,855  | 45,736 | 59,929 | 343,749 |
| 6/18 | 52      | 53       | 163     | 1,362  | 40,436  | 236,925 | 7              | 45     | 996    | 3,121  | 1,184  | 8,199  | 42,786 | 249,652 |
| 6/19 | 49      | 53       | 109     | 904    | 42,156  | 241,245 | 12             | 76     | 2,956  | 9,099  | 2,075  | 14,404 | 47,308 | 265,728 |
| 6/20 | 33      | 33       | 34      | 331    | 18,384  | 106,421 | 0              | 0      | 3,462  | 10,739 | 3,586  | 25,215 | 25,466 | 142,706 |
| 6/21 |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/22 |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/23 |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/24 | 59      | 64       | 316     | 2,486  | 51,930  | 304,959 | 17             | 103    | 7,296  | 23,776 | 5,391  | 35,842 | 64,950 | 367,166 |
| 6/25 | 50      | 54       | 140     | 711    | 36,221  | 213,979 | 61             | 305    | 3,415  | 11,561 | 3,515  | 22,368 | 43,352 | 248,924 |
| 6/26 | 58      | 60       | 456     | 3,325  | 33,731  | 204,655 | 31             | 186    | 2,009  | 8,579  | 818    | 5,753  | 37,045 | 222,498 |
| 6/27 |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 6/28 | 53      | 61       | 196     | 1,369  | 30,941  | 180,878 | 6              | 34     | 487    | 1,526  | 393    | 2,711  | 32,023 | 186,518 |
| 6/29 | 45      | 47       | 269     | 1,915  | 29,161  | 171,120 | 46             | 283    | 866    | 2,946  | 3,190  | 23,203 | 33,532 | 199,467 |
| 6/30 | 54      | 54       | 442     | 4,083  | 38,173  | 232,742 | 66             | 409    | 2,852  | 9,842  | 2,949  | 21,845 | 44,482 | 268,921 |
| 7/1  |         |          |         |        |         |         | Fishery Closed |        |        |        |        |        |        |         |
| 7/2  | 45      | 49       | 295     | 2,699  | 24,601  | 144,276 | 205            | 1,196  | 994    | 3,223  | 2,378  | 16,018 | 28,473 | 167,412 |
| 7/3  | 48      | 48       | 79      | 916    | 28,181  | 167,112 | 29             | 176    | 463    | 1,382  | 557    | 3,792  | 29,309 | 173,378 |
| 7/4  | 49      | 49       | 127     | 1,246  | 28,728  | 171,758 | 214            | 1,312  | 431    | 1,404  | 1,193  | 8,995  | 30,693 | 184,715 |
| 7/5  | 55      | 55       | 134     | 1,347  | 22,976  | 136,914 | 91             | 526    | 638    | 2,111  | 900    | 6,479  | 24,739 | 147,377 |

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Table 2.-Page 2 of 3.

| Date              | Effort  |          | Chinook |        | Sockeye |         | Coho   |        | Pink   |        | Chum   |        | Total  |         |
|-------------------|---------|----------|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|---------|
|                   | Permits | Landings | Number  | Pounds | Number  | Pounds  | Number | Pounds | Number | Pounds | Number | Pounds | Number | Pounds  |
| 7/6               |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/7               |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/8               |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/9               | 59      | 63       | 897     | 5,307  | 60,088  | 346,868 | 2,839  | 19,235 | 2,026  | 6,760  | 2,259  | 16,502 | 68,109 | 394,672 |
| 7/10              | 50      | 51       | 109     | 1,199  | 33,127  | 205,292 | 4,472  | 37,381 | 3,104  | 9,475  | 2,042  | 14,776 | 42,854 | 268,123 |
| 7/11              | 51      | 52       | 1,207   | 7,139  | 37,359  | 214,362 | 2,496  | 14,997 | 1,884  | 6,298  | 2,144  | 15,405 | 45,090 | 258,201 |
| 7/12              | 53      | 53       | 472     | 3,597  | 53,034  | 310,824 | 3,214  | 19,530 | 2,274  | 7,750  | 3,361  | 24,374 | 62,355 | 366,075 |
| 7/13              | 30      | 30       | 53      | 572    | 10,177  | 62,735  | 245    | 1,400  | 801    | 2,849  | 661    | 4,869  | 11,937 | 72,425  |
| 7/14 <sup>a</sup> |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/15 <sup>a</sup> |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/16              | 40      | 41       | 309     | 2,272  | 37,075  | 206,887 | 1,471  | 8,800  | 2,618  | 9,892  | 3,358  | 22,277 | 44,831 | 250,128 |
| 7/17              | 48      | 55       | 659     | 3,930  | 61,413  | 381,222 | 4,247  | 26,035 | 4,565  | 16,664 | 3,565  | 23,938 | 74,449 | 451,789 |
| 7/18              | 54      | 55       | 993     | 6,753  | 39,873  | 245,496 | 3,278  | 21,026 | 3,317  | 10,899 | 1,951  | 14,090 | 49,412 | 298,264 |
| 7/19              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/20              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/21              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/22              | 58      | 73       | 3,501   | 21,727 | 47,690  | 282,335 | 6,370  | 42,637 | 8,510  | 36,421 | 4,531  | 29,945 | 70,602 | 413,065 |
| 7/23              | 43      | 43       | 1,179   | 6,976  | 21,440  | 130,121 | 3,284  | 21,943 | 3,597  | 16,588 | 1,090  | 7,520  | 30,590 | 183,148 |
| 7/24              | 48      | 50       | 412     | 3,788  | 30,569  | 186,909 | 6,021  | 41,230 | 6,942  | 26,268 | 2,424  | 17,566 | 46,368 | 275,761 |
| 7/25              | 48      | 49       | 861     | 7,134  | 29,563  | 181,368 | 8,017  | 58,780 | 9,141  | 38,799 | 6,540  | 50,922 | 54,122 | 337,003 |
| 7/26              | 47      | 49       | 596     | 4,566  | 46,297  | 300,326 | 5,370  | 37,308 | 7,432  | 28,875 | 4,050  | 27,457 | 63,745 | 398,532 |
| 7/27              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/28              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/29              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/30              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 7/31              |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 8/1               |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 8/2               |         |          |         |        |         |         |        |        |        |        |        |        |        |         |
| 8/3               | 56      | 63       | 928     | 8,829  | 23,657  | 144,265 | 8,113  | 53,456 | 11,883 | 55,494 | 4,579  | 31,967 | 49,160 | 294,011 |
| 8/4               | 46      | 48       | 540     | 3,950  | 13,436  | 82,629  | 2,930  | 23,446 | 4,049  | 20,257 | 1,774  | 12,762 | 22,729 | 143,044 |
| 8/5               | 48      | 49       | 1,424   | 10,077 | 11,773  | 71,362  | 3,295  | 23,596 | 6,261  | 24,777 | 2,306  | 15,908 | 25,059 | 145,720 |
| 8/6               | 36      | 36       | 455     | 3,462  | 6,878   | 41,639  | 1,973  | 16,285 | 2,397  | 11,812 | 1,302  | 8,978  | 13,005 | 82,176  |

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Table 2.–Page 3 of 3.

| Date                   | Effort    |              | Chinook       |                | Sockeye          |                  | Coho           |                | Pink           |                | Chum           |                | Total            |                   |
|------------------------|-----------|--------------|---------------|----------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|-------------------|
|                        | Permits   | Landings     | Number        | Pounds         | Number           | Pounds           | Number         | Pounds         | Number         | Pounds         | Number         | Pounds         | Number           | Pounds            |
| 8/7                    | 44        | 50           | 481           | 4,167          | 11,395           | 66,464           | 5,951          | 44,221         | 7,058          | 29,927         | 3,743          | 26,900         | 28,628           | 171,679           |
| 8/8                    | 40        | 40           | 444           | 3,794          | 8,683            | 52,324           | 2,360          | 16,797         | 3,331          | 15,046         | 2,458          | 17,149         | 17,276           | 105,110           |
| 8/9                    | 36        | 36           | 196           | 1,675          | 9,361            | 58,040           | 3,191          | 21,551         | 2,981          | 16,515         | 2,282          | 15,328         | 18,011           | 113,109           |
| 8/10                   | 37        | 37           | 236           | 2,027          | 10,225           | 64,603           | 2,679          | 18,179         | 3,654          | 17,719         | 2,620          | 16,237         | 19,414           | 118,765           |
| 8/11                   | 34        | 36           | 66            | 1,538          | 9,095            | 56,496           | 2,493          | 18,385         | 2,964          | 14,405         | 2,021          | 13,406         | 16,639           | 104,230           |
| 8/12                   | 34        | 34           | 69            | 633            | 7,181            | 43,580           | 1,218          | 9,269          | 1,327          | 7,546          | 1,345          | 8,481          | 11,140           | 69,509            |
| 8/13                   |           |              |               |                |                  |                  | Fishery Closed |                |                |                |                |                |                  |                   |
| 8/14                   | 29        | 29           | 387           | 3,598          | 4,764            | 27,969           | 2,054          | 13,381         | 2,358          | 8,411          | 1,462          | 9,868          | 11,025           | 63,227            |
| 8/15                   | 28        | 28           | 55            | 553            | 4,069            | 24,123           | 272            | 1,762          | 279            | 1,145          | 312            | 1,981          | 4,987            | 29,564            |
| 8/16                   | 23        | 23           | 59            | 689            | 4,098            | 24,853           | 771            | 6,163          | 392            | 2,649          | 583            | 3,633          | 5,903            | 37,987            |
| 8/17                   | 10        | 10           | 0             | 0              | 2,189            | 12,927           | 450            | 3,175          | 251            | 1,287          | 339            | 2,513          | 3,229            | 19,902            |
| 8/18                   | 16        | 16           | 39            | 408            | 2,971            | 17,518           | 428            | 2,204          | 201            | 930            | 284            | 1,647          | 3,923            | 22,707            |
| 8/19                   | 18        | 18           | 22            | 206            | 2,053            | 12,762           | 981            | 7,510          | 512            | 2,885          | 598            | 3,657          | 4,166            | 27,020            |
| 8/20                   | 18        | 18           | 59            | 667            | 4,374            | 25,774           | 302            | 2,387          | 200            | 1,129          | 229            | 1,450          | 5,164            | 31,407            |
| 8/21–8/31 <sup>a</sup> |           |              |               |                |                  |                  |                |                |                |                |                |                |                  |                   |
| <b>Total</b>           | <b>69</b> | <b>2,551</b> | <b>20,719</b> | <b>155,550</b> | <b>1,386,016</b> | <b>8,210,420</b> | <b>94,397</b>  | <b>658,553</b> | <b>140,895</b> | <b>563,390</b> | <b>118,418</b> | <b>805,140</b> | <b>1,760,444</b> | <b>10,393,053</b> |

<sup>a</sup> Information cannot be released due to confidentiality rules.

Table 3.—Estimated Chignik River sockeye salmon escapement, by day and management objective period, 2016.

| May–June        |        |         | July        |        |         |
|-----------------|--------|---------|-------------|--------|---------|
| Date            | Daily  | Total   | Date        | Daily  | Total   |
| 5/23            | 338    | 338     | 7/1         | 9,626  | 9,626   |
| 5/24            | 618    | 956     | 7/2         | 15,389 | 25,015  |
| 5/25            | 636    | 1,592   | 7/3         | 5,044  | 30,059  |
| 5/26            | 756    | 2,348   | 7/4         | 4,356  | 34,415  |
| 5/27            | 624    | 2,972   | 7/5         | 3,310  | 37,725  |
| 5/28            | 1,308  | 4,280   | 7/6         | 11,703 | 49,428  |
| 5/29            | 2,472  | 6,752   | 7/7         | 23,680 | 73,108  |
| 5/30            | 1,800  | 8,552   | 7/8         | 25,830 | 98,938  |
| 5/31            | 1,270  | 9,822   | 7/9         | 17,629 | 116,567 |
| 6/1             | 2,178  | 12,000  | 7/10        | 6,192  | 122,759 |
| 6/2             | 9,258  | 21,258  | 7/11        | 5,802  | 128,561 |
| 6/3             | 8,762  | 30,020  | 7/12        | 4,970  | 133,531 |
| 6/4             | 4,394  | 34,414  | 7/13        | 1,770  | 135,301 |
| 6/5             | 7,646  | 42,060  | 7/14        | 13,895 | 149,196 |
| 6/6             | 2,235  | 44,295  | 7/15        | 21,061 | 170,257 |
| 6/7             | 1,804  | 46,099  | 7/16        | 18,088 | 188,345 |
| 6/8             | 6,340  | 52,439  | 7/17        | 4,978  | 193,323 |
| 6/9             | 18,925 | 71,364  | 7/18        | 3,786  | 197,109 |
| 6/10            | 14,244 | 85,608  | 7/19        | 10,935 | 208,044 |
| 6/11            | 4,608  | 90,216  | 7/20        | 17,968 | 226,012 |
| 6/12            | 2,278  | 92,494  | 7/21        | 23,769 | 249,781 |
| 6/13            | 2,873  | 95,367  | 7/22        | 11,887 | 261,668 |
| 6/14            | 3,128  | 98,495  | 7/23        | 5,483  | 267,151 |
| 6/15            | 24,240 | 122,735 | 7/24        | 3,807  | 270,958 |
| 6/16            | 7,476  | 130,211 | 7/25        | 3,638  | 274,596 |
| 6/17            | 5,673  | 135,884 | 7/26        | 1,078  | 275,674 |
| 6/18            | 2,010  | 137,894 | 7/27        | 3,621  | 279,295 |
| 6/19            | 5,111  | 143,005 | 7/28        | 5,774  | 285,069 |
| 6/20            | 4,806  | 147,811 | 7/29        | 6,431  | 291,500 |
| 6/21            | 22,480 | 170,291 | 7/30        | 6,957  | 298,457 |
| 6/22            | 29,935 | 200,226 | 7/31        | 10,978 | 309,435 |
| 6/23            | 29,003 | 229,229 | July total: |        | 309,435 |
| 6/24            | 27,206 | 256,435 |             |        |         |
| 6/25            | 8,936  | 265,371 |             |        |         |
| 6/26            | 6,030  | 271,401 |             |        |         |
| 6/27            | 6,947  | 278,348 |             |        |         |
| 6/28            | 17,737 | 296,085 |             |        |         |
| 6/29            | 6,149  | 302,234 |             |        |         |
| 6/30            | 5,234  | 307,468 |             |        |         |
| May–June total: |        | 307,468 |             |        |         |

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Table 3.–Page 2 of 2.

| August        |        |         | September                     |       |         |
|---------------|--------|---------|-------------------------------|-------|---------|
| Date          | Daily  | Total   | Date                          | Daily | Total   |
| 8/1           | 16,921 | 16,921  | 9/1                           | 2,607 | 2,607   |
| 8/2           | 15,117 | 32,038  | 9/2                           | 2,946 | 5,553   |
| 8/3           | 7,930  | 39,968  | 9/3                           | 3,643 | 9,196   |
| 8/4           | 4,301  | 44,269  | 9/4                           | 1,785 | 10,981  |
| 8/5           | 2,424  | 46,693  | 9/5                           | 3,099 | 14,080  |
| 8/6           | 2,479  | 49,172  | 9/6                           | 3,600 | 17,680  |
| 8/7           | 2,184  | 51,356  | 9/7                           | 2,989 | 20,669  |
| 8/8           | 1,914  | 53,270  | 9/8                           | 2,507 | 23,176  |
| 8/9           | 1,419  | 54,689  | 9/9                           | 780   | 23,956  |
| 8/10          | 1,657  | 56,346  | 9/10                          | 2,872 | 26,828  |
| 8/11          | 1,969  | 58,315  | 9/11                          | 3,001 | 29,829  |
| 8/12          | 1,913  | 60,228  | 9/12                          | 1,800 | 31,629  |
| 8/13          | 1,917  | 62,145  | 9/13 <sup>a</sup>             | 2,361 | 33,990  |
| 8/14          | 2,978  | 65,123  | 9/14                          | 1,252 | 35,242  |
| 8/15          | 3,026  | 68,149  | 9/15                          | 1,602 | 36,844  |
| 8/16          | 1,302  | 69,451  | 9/16                          | 1,860 | 38,704  |
| 8/17          | 3,250  | 72,701  | 9/17                          | 2,419 | 41,123  |
| 8/18          | 2,955  | 75,656  | 9/18                          | 1,590 | 42,713  |
| 8/19          | 1,540  | 77,196  | 9/19                          | 2,194 | 44,907  |
| 8/20          | 1,661  | 78,857  | 9/20                          | 1,599 | 46,506  |
| 8/21          | 2,032  | 80,889  | 9/21                          | 672   | 47,178  |
| 8/22          | 2,091  | 82,980  | 9/22                          | 796   | 47,974  |
| 8/23          | 1,814  | 84,794  | 9/23                          | 947   | 48,921  |
| 8/24          | 2,376  | 87,170  | Post DIDSON estimate:         | 3,464 | 52,385  |
| 8/25          | 2,137  | 89,307  | September total:              |       | 52,385  |
| 8/26          | 2,956  | 92,263  |                               |       |         |
| 8/27          | 3,491  | 95,754  |                               |       |         |
| 8/28          | 1,869  | 97,623  | Early run total: <sup>b</sup> |       | 418,290 |
| 8/29          | 1,825  | 99,448  | Late run total: <sup>b</sup>  |       | 354,884 |
| 8/30          | 1,180  | 100,628 | Season total:                 |       | 773,174 |
| 8/31          | 3,258  | 103,886 |                               |       |         |
| August total: |        | 103,886 |                               |       |         |

<sup>a</sup> The weir was removed after the completion of the 9/12 count. DIDSON (Dual-frequency Identification Sonar) was used for enumeration estimates from 9/13–9/23.

<sup>b</sup> Historically, estimated total escapement for early-run sockeye salmon was based on Chignik River weir counts through July 4, based on scale pattern analysis studies. After July 4, sockeye salmon through the weir were considered late-run escapement. Beginning in 2014, inseason genetic samples were used to determine the apportionment of the 2 runs during late-June and mid-July when the runs overlap instead of the July 4 date.

Table 4.–Genetic stock proportions of estimated Chignik River sockeye salmon escapement by day, 2016.

| Date | Daily escapement | Cumulative escapement | Late run (%) | Early run | Late run |
|------|------------------|-----------------------|--------------|-----------|----------|
| 5/23 | 338              | 338                   | 0.00         | 338       | 0        |
| 5/24 | 618              | 956                   | 0.00         | 618       | 0        |
| 5/25 | 636              | 1,592                 | 0.01         | 636       | 0        |
| 5/26 | 756              | 2,348                 | 0.01         | 756       | 0        |
| 5/27 | 624              | 2,972                 | 0.01         | 624       | 0        |
| 5/28 | 1,308            | 4,280                 | 0.01         | 1,308     | 0        |
| 5/29 | 2,472            | 6,752                 | 0.01         | 2,472     | 0        |
| 5/30 | 1,800            | 8,552                 | 0.02         | 1,800     | 0        |
| 5/31 | 1,270            | 9,822                 | 0.02         | 1,270     | 0        |
| 6/1  | 2,178            | 12,000                | 0.02         | 2,178     | 0        |
| 6/2  | 9,258            | 21,258                | 0.03         | 9,255     | 3        |
| 6/3  | 8,762            | 30,020                | 0.04         | 8,758     | 4        |
| 6/4  | 4,394            | 34,414                | 0.04         | 4,392     | 2        |
| 6/5  | 7,646            | 42,060                | 0.06         | 7,641     | 5        |
| 6/6  | 2,235            | 44,295                | 0.07         | 2,233     | 2        |
| 6/7  | 1,804            | 46,099                | 0.08         | 1,803     | 1        |
| 6/8  | 6,340            | 52,439                | 0.10         | 6,334     | 6        |
| 6/9  | 18,925           | 71,364                | 0.13         | 18,900    | 25       |
| 6/10 | 14,244           | 85,608                | 0.16         | 14,221    | 23       |
| 6/11 | 4,608            | 90,216                | 0.20         | 4,599     | 9        |
| 6/12 | 2,278            | 92,494                | 0.24         | 2,273     | 5        |
| 6/13 | 2,873            | 95,367                | 0.30         | 2,864     | 9        |
| 6/14 | 3,128            | 98,495                | 0.37         | 3,116     | 12       |
| 6/15 | 24,240           | 122,735               | 0.45         | 24,131    | 109      |
| 6/16 | 7,476            | 130,211               | 0.56         | 7,434     | 42       |
| 6/17 | 5,673            | 135,884               | 0.69         | 5,634     | 39       |
| 6/18 | 2,010            | 137,894               | 0.85         | 1,993     | 17       |
| 6/19 | 5,111            | 143,005               | 1.05         | 5,057     | 54       |
| 6/20 | 4,806            | 147,811               | 1.29         | 4,744     | 62       |
| 6/21 | 22,480           | 170,291               | 1.59         | 22,123    | 357      |
| 6/22 | 29,935           | 200,226               | 1.96         | 29,348    | 587      |
| 6/23 | 29,003           | 229,229               | 2.41         | 28,304    | 699      |
| 6/24 | 27,206           | 256,435               | 2.96         | 26,401    | 805      |
| 6/25 | 8,936            | 265,371               | 3.63         | 8,612     | 324      |

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Table 4.–Page 2 of 4.

| Date | Daily escapement | Cumulative escapement | Late run (%) | Early run | Late run |
|------|------------------|-----------------------|--------------|-----------|----------|
| 6/26 | 6,030            | 271,401               | 4.44         | 5,762     | 268      |
| 6/27 | 6,947            | 278,348               | 5.42         | 6,570     | 377      |
| 6/28 | 17,737           | 296,085               | 6.61         | 16,565    | 1,172    |
| 6/29 | 6,149            | 302,234               | 8.04         | 5,655     | 494      |
| 6/30 | 5,234            | 307,468               | 9.74         | 4,724     | 510      |
| 7/1  | 9,626            | 317,094               | 11.76        | 8,494     | 1,132    |
| 7/2  | 15,389           | 332,483               | 14.13        | 13,215    | 2,174    |
| 7/3  | 5,044            | 337,527               | 16.89        | 4,192     | 852      |
| 7/4  | 4,356            | 341,883               | 20.06        | 3,482     | 874      |
| 7/5  | 3,310            | 345,193               | 23.65        | 2,527     | 783      |
| 7/6  | 11,703           | 356,896               | 27.67        | 8,465     | 3,238    |
| 7/7  | 23,680           | 380,576               | 32.08        | 16,083    | 7,597    |
| 7/8  | 25,830           | 406,406               | 36.83        | 16,317    | 9,513    |
| 7/9  | 17,629           | 424,035               | 41.86        | 10,250    | 7,379    |
| 7/10 | 6,192            | 430,227               | 47.06        | 3,278     | 2,914    |
| 7/11 | 5,802            | 436,029               | 52.32        | 2,766     | 3,036    |
| 7/12 | 4,970            | 440,999               | 57.54        | 2,110     | 2,860    |
| 7/13 | 1,770            | 442,769               | 62.59        | 662       | 1,108    |
| 7/14 | 13,895           | 456,664               | 67.38        | 4,533     | 9,362    |
| 7/15 | 21,061           | 477,725               | 71.84        | 5,931     | 15,130   |
| 7/16 | 18,088           | 495,813               | 75.90        | 4,359     | 13,729   |
| 7/17 | 4,978            | 500,791               | 79.54        | 1,018     | 3,960    |
| 7/18 | 3,786            | 504,577               | 82.76        | 653       | 3,133    |
| 7/19 | 10,935           | 515,512               | 85.57        | 1,578     | 9,357    |
| 7/20 | 17,968           | 533,480               | 87.98        | 2,160     | 15,808   |
| 7/21 | 23,769           | 557,249               | 90.04        | 2,367     | 21,402   |
| 7/22 | 11,887           | 569,136               | 91.78        | 977       | 10,910   |
| 7/23 | 5,483            | 574,619               | 93.23        | 371       | 5,112    |
| 7/24 | 3,807            | 578,426               | 94.45        | 211       | 3,596    |
| 7/25 | 3,638            | 582,064               | 95.46        | 165       | 3,473    |
| 7/26 | 1,078            | 583,142               | 96.29        | 40        | 1,038    |
| 7/27 | 3,621            | 586,763               | 96.97        | 110       | 3,511    |
| 7/28 | 5,774            | 592,537               | 97.53        | 143       | 5,631    |
| 7/29 | 6,431            | 598,968               | 97.99        | 129       | 6,302    |
| 7/30 | 6,957            | 605,925               | 98.37        | 113       | 6,844    |
| 7/31 | 10,978           | 616,903               | 98.67        | 146       | 10,832   |
| 8/1  | 16,921           | 633,824               | 100.00       | 0         | 16,921   |
| 8/2  | 15,117           | 648,941               | 100.00       | 0         | 15,117   |

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Table 4.–Page 3 of 4.

| Date | Daily escapement | Cumulative escapement | Late run (%) | Early run | Late run |
|------|------------------|-----------------------|--------------|-----------|----------|
| 8/3  | 7,930            | 656,871               | 100.00       | 0         | 7,930    |
| 8/4  | 4,301            | 661,172               | 100.00       | 0         | 4,301    |
| 8/5  | 2,424            | 663,596               | 100.00       | 0         | 2,424    |
| 8/6  | 2,479            | 666,075               | 100.00       | 0         | 2,479    |
| 8/7  | 2,184            | 668,259               | 100.00       | 0         | 2,184    |
| 8/8  | 1,914            | 670,173               | 100.00       | 0         | 1,914    |
| 8/9  | 1,419            | 671,592               | 100.00       | 0         | 1,419    |
| 8/10 | 1,657            | 673,249               | 100.00       | 0         | 1,657    |
| 8/11 | 1,969            | 675,218               | 100.00       | 0         | 1,969    |
| 8/12 | 1,913            | 677,131               | 100.00       | 0         | 1,913    |
| 8/13 | 1,917            | 679,048               | 100.00       | 0         | 1,917    |
| 8/14 | 2,978            | 682,026               | 100.00       | 0         | 2,978    |
| 8/15 | 3,026            | 685,052               | 100.00       | 0         | 3,026    |
| 8/16 | 1,302            | 686,354               | 100.00       | 0         | 1,302    |
| 8/17 | 3,250            | 689,604               | 100.00       | 0         | 3,250    |
| 8/18 | 2,955            | 692,559               | 100.00       | 0         | 2,955    |
| 8/19 | 1,540            | 694,099               | 100.00       | 0         | 1,540    |
| 8/20 | 1,661            | 695,760               | 100.00       | 0         | 1,661    |
| 8/21 | 2,032            | 697,792               | 100.00       | 0         | 2,032    |
| 8/22 | 2,091            | 699,883               | 100.00       | 0         | 2,091    |
| 8/23 | 1,814            | 701,697               | 100.00       | 0         | 1,814    |
| 8/24 | 2,376            | 704,073               | 100.00       | 0         | 2,376    |
| 8/25 | 2,137            | 706,210               | 100.00       | 0         | 2,137    |
| 8/26 | 2,956            | 709,166               | 100.00       | 0         | 2,956    |
| 8/27 | 3,491            | 712,657               | 100.00       | 0         | 3,491    |
| 8/28 | 1,869            | 714,526               | 100.00       | 0         | 1,869    |
| 8/29 | 1,825            | 716,351               | 100.00       | 0         | 1,825    |
| 8/30 | 1,180            | 717,531               | 100.00       | 0         | 1,180    |
| 8/31 | 3,258            | 720,789               | 100.00       | 0         | 3,258    |
| 9/1  | 2,607            | 723,396               | 100.00       | 0         | 2,607    |
| 9/2  | 2,946            | 726,342               | 100.00       | 0         | 2,946    |
| 9/3  | 3,643            | 729,985               | 100.00       | 0         | 3,643    |
| 9/4  | 1,785            | 731,770               | 100.00       | 0         | 1,785    |
| 9/5  | 3,099            | 734,869               | 100.00       | 0         | 3,099    |
| 9/6  | 3,600            | 738,469               | 100.00       | 0         | 3,600    |
| 9/7  | 2,989            | 741,458               | 100.00       | 0         | 2,989    |
| 9/8  | 2,507            | 743,965               | 100.00       | 0         | 2,507    |

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Table 4.–Page 4 of 4.

| Date | Daily escapement | Cumulative escapement | Late run (%) | Early run | Late run |
|------|------------------|-----------------------|--------------|-----------|----------|
| 9/9  | 780              | 744,745               | 100.00       | 0         | 780      |
| 9/10 | 2,872            | 747,617               | 100.00       | 0         | 2,872    |
| 9/11 | 3,001            | 750,618               | 100.00       | 0         | 3,001    |
| 9/12 | 1,800            | 752,418               | 100.00       | 0         | 1,800    |
| 9/13 | 2,361            | 754,779               | 100.00       | 0         | 2,361    |
| 9/14 | 1,252            | 756,031               | 100.00       | 0         | 1,252    |
| 9/15 | 1,602            | 757,633               | 100.00       | 0         | 1,602    |
| 9/16 | 1,860            | 759,493               | 100.00       | 0         | 1,860    |
| 9/17 | 2,419            | 761,912               | 100.00       | 0         | 2,419    |
| 9/18 | 1,590            | 763,502               | 100.00       | 0         | 1,590    |
| 9/19 | 2,194            | 765,697               | 100.00       | 0         | 2,194    |
| 9/20 | 1,599            | 767,296               | 100.00       | 0         | 1,599    |
| 9/21 | 672              | 767,968               | 100.00       | 0         | 672      |
| 9/22 | 796              | 768,764               | 100.00       | 0         | 796      |
| 9/23 | 947              | 769,710               | 100.00       | 0         | 947      |

Table 5.—Estimates of stock composition, with upper and lower 90% credibility intervals, and standard deviations for escapement through the Chignik River weir, by sample date, 2010–2016, using the program BAYES with a sequential prior.

| Year | Date                 | Sample size | Black Lake |       |       |       | Chignik Lake |       |       |       |
|------|----------------------|-------------|------------|-------|-------|-------|--------------|-------|-------|-------|
|      |                      |             | Proportion | Lower | Upper | SD    | Proportion   | Lower | Upper | SD    |
| 2010 | 6/14                 | 190         | 0.959      | 0.894 | 1.000 | 0.036 | 0.041        | 0.000 | 0.106 | 0.036 |
|      | 6/21                 | 189         | 0.995      | 0.966 | 1.000 | 0.014 | 0.005        | 0.000 | 0.034 | 0.014 |
|      | 6/27                 | 189         | 0.924      | 0.794 | 1.000 | 0.075 | 0.076        | 0.000 | 0.206 | 0.075 |
|      | 7/1                  | 189         | 0.823      | 0.724 | 0.912 | 0.057 | 0.177        | 0.088 | 0.276 | 0.057 |
|      | 7/5                  | 190         | 0.788      | 0.699 | 0.871 | 0.052 | 0.212        | 0.129 | 0.301 | 0.052 |
|      | 7/8–7/9              | 190         | 0.784      | 0.687 | 0.870 | 0.056 | 0.216        | 0.13  | 0.313 | 0.056 |
|      | 7/11                 | 190         | 0.519      | 0.409 | 0.625 | 0.066 | 0.481        | 0.375 | 0.591 | 0.066 |
|      | 7/14                 | 188         | 0.227      | 0.154 | 0.306 | 0.046 | 0.773        | 0.694 | 0.846 | 0.046 |
|      | 7/18–7/19            | 188         | 0.293      | 0.214 | 0.377 | 0.05  | 0.707        | 0.623 | 0.786 | 0.05  |
|      | 7/23                 | 186         | 0.108      | 0.052 | 0.173 | 0.037 | 0.892        | 0.827 | 0.948 | 0.037 |
|      | 7/30                 | 190         | 0.013      | 0.000 | 0.062 | 0.022 | 0.987        | 0.938 | 1.000 | 0.022 |
| 2011 | 6/10                 | 188         | 0.998      | 0.988 | 1.000 | 0.005 | 0.002        | 0.000 | 0.012 | 0.005 |
|      | 6/17                 | 188         | 1.000      | 1.000 | 1.000 | 0.002 | 0.000        | 0.000 | 0.000 | 0.002 |
|      | 6/24                 | 188         | 0.976      | 0.888 | 1.000 | 0.040 | 0.024        | 0.000 | 0.112 | 0.04  |
|      | 6/28                 | 190         | 0.832      | 0.744 | 0.918 | 0.054 | 0.168        | 0.082 | 0.256 | 0.054 |
|      | 7/2                  | 190         | 0.953      | 0.886 | 1.000 | 0.036 | 0.047        | 0.000 | 0.114 | 0.036 |
|      | 7/5                  | 190         | 0.785      | 0.696 | 0.866 | 0.052 | 0.215        | 0.134 | 0.304 | 0.052 |
|      | 7/9–7/10             | 187         | 0.719      | 0.625 | 0.807 | 0.055 | 0.281        | 0.193 | 0.375 | 0.055 |
|      | 7/12–7/13            | 190         | 0.297      | 0.214 | 0.384 | 0.052 | 0.703        | 0.616 | 0.786 | 0.052 |
|      | 7/14                 | 190         | 0.308      | 0.217 | 0.402 | 0.056 | 0.692        | 0.598 | 0.783 | 0.056 |
|      | 7/21                 | 186         | 0.123      | 0.062 | 0.192 | 0.039 | 0.877        | 0.808 | 0.938 | 0.039 |
| 7/28 | 189                  | 0.036       | 0.000      | 0.088 | 0.029 | 0.964 | 0.912        | 1.000 | 0.029 |       |
| 2012 | 6/11                 | 188         | 0.976      | 0.904 | 1.000 | 0.034 | 0.024        | 0.000 | 0.096 | 0.034 |
|      | 6/18                 | 190         | 0.964      | 0.882 | 1.000 | 0.042 | 0.036        | 0.000 | 0.118 | 0.042 |
|      | 6/25                 | 189         | 0.993      | 0.955 | 1.000 | 0.017 | 0.007        | 0.000 | 0.045 | 0.017 |
|      | 7/1                  | 190         | 0.644      | 0.544 | 0.733 | 0.058 | 0.356        | 0.267 | 0.456 | 0.058 |
|      | 7/5                  | 187         | 0.485      | 0.396 | 0.574 | 0.054 | 0.515        | 0.426 | 0.604 | 0.054 |
|      | 7/8–7/9 <sup>a</sup> | 187         | 0.099      | 0.005 | 0.235 | 0.071 | 0.901        | 0.765 | 0.995 | 0.071 |
|      | 7/11                 | 189         | 0.225      | 0.147 | 0.306 | 0.048 | 0.775        | 0.694 | 0.853 | 0.048 |
|      | 7/14                 | 190         | 0.070      | 0.011 | 0.132 | 0.036 | 0.930        | 0.868 | 0.989 | 0.036 |
|      | 7/17                 | 189         | 0.003      | 0.000 | 0.020 | 0.009 | 0.997        | 0.980 | 1.000 | 0.009 |
|      | 7/21                 | 190         | 0.006      | 0.000 | 0.049 | 0.018 | 0.994        | 0.951 | 1.000 | 0.018 |
| 7/28 | 170                  | 0.000       | 0.000      | 0.000 | 0.001 | 1.000 | 1.000        | 1.000 | 0.001 |       |
| 2013 | 6/27                 | 188         | 0.911      | 0.838 | 1.000 | 0.045 | 0.089        | 0.000 | 0.162 | 0.045 |
|      | 7/1                  | 189         | 0.858      | 0.761 | 0.942 | 0.055 | 0.142        | 0.058 | 0.239 | 0.055 |
|      | 7/5                  | 169         | 0.612      | 0.515 | 0.705 | 0.058 | 0.388        | 0.295 | 0.485 | 0.058 |
|      | 7/8–7/9              | 187         | 0.429      | 0.338 | 0.519 | 0.055 | 0.571        | 0.481 | 0.662 | 0.055 |
|      | 7/14                 | 190         | 0.288      | 0.196 | 0.384 | 0.057 | 0.712        | 0.616 | 0.804 | 0.057 |

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Table 5.–Page 2 of 2.

| Year | Date      | Sample Size | Black Lake |       |       |       | Chignik Lake |       |       |       |
|------|-----------|-------------|------------|-------|-------|-------|--------------|-------|-------|-------|
|      |           |             | Proportion | Lower | Upper | SD    | Proportion   | Lower | Upper | SD    |
| 2014 | 6/28      | 189         | 0.825      | 0.745 | 0.896 | 0.046 | 0.175        | 0.104 | 0.255 | 0.046 |
|      | 7/2       | 189         | 0.785      | 0.690 | 0.874 | 0.056 | 0.215        | 0.126 | 0.310 | 0.056 |
|      | 7/6       | 189         | 0.618      | 0.519 | 0.714 | 0.059 | 0.382        | 0.286 | 0.481 | 0.059 |
|      | 7/10      | 188         | 0.357      | 0.258 | 0.460 | 0.062 | 0.643        | 0.540 | 0.742 | 0.062 |
|      | 7/14      | 188         | 0.220      | 0.139 | 0.307 | 0.051 | 0.780        | 0.693 | 0.861 | 0.051 |
|      | 7/18      | 189         | 0.143      | 0.064 | 0.227 | 0.050 | 0.857        | 0.773 | 0.936 | 0.05  |
| 2015 | 6/27      | 190         | 0.905      | 0.815 | 1.000 | 0.054 | 0.095        | 0.000 | 0.185 | 0.054 |
|      | 7/1       | 188         | 0.932      | 0.856 | 0.996 | 0.042 | 0.068        | 0.004 | 0.144 | 0.042 |
|      | 7/5       | 187         | 0.864      | 0.775 | 0.944 | 0.051 | 0.136        | 0.056 | 0.225 | 0.051 |
|      | 7/12      | 190         | 0.894      | 0.790 | 0.995 | 0.061 | 0.106        | 0.005 | 0.210 | 0.061 |
|      | 7/18      | 182         | 0.363      | 0.253 | 0.476 | 0.068 | 0.637        | 0.524 | 0.747 | 0.068 |
|      | 7/25      | 187         | 0.383      | 0.284 | 0.485 | 0.061 | 0.617        | 0.515 | 0.716 | 0.061 |
| 2016 | 6/27      | 189         | 0.988      | 0.938 | 1.000 | 0.022 | 0.012        | 0.000 | 0.062 | 0.022 |
|      | 7/2       | 156         | 0.799      | 0.694 | 0.895 | 0.061 | 0.201        | 0.105 | 0.306 | 0.061 |
|      | 7/7       | 190         | 0.626      | 0.535 | 0.717 | 0.055 | 0.374        | 0.283 | 0.465 | 0.055 |
|      | 7/12      | 180         | 0.422      | 0.338 | 0.506 | 0.051 | 0.578        | 0.494 | 0.662 | 0.051 |
|      | 7/17      | 187         | 0.199      | 0.130 | 0.272 | 0.043 | 0.801        | 0.728 | 0.870 | 0.043 |
|      | 7/26–7/27 | 190         | 0.135      | 0.076 | 0.202 | 0.038 | 0.865        | 0.798 | 0.924 | 0.038 |

Note: These estimates were associated with a Gelman-Rubin shrink factor of 1.4.

Table 6.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, by day, 2016.

| Date | Chinook |            | Coho  |            | Pink  |            | Chum  |            | Dolly Varden |            |
|------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
|      | Daily   | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily        | Cumulative |
| 5/23 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 30           | 30         |
| 5/24 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 36           | 66         |
| 5/25 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 48           | 114        |
| 5/26 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 78           | 192        |
| 5/27 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 24           | 216        |
| 5/28 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 60           | 276        |
| 5/29 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 78           | 354        |
| 5/30 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 18           | 372        |
| 5/31 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 18           | 390        |
| 6/1  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 138          | 528        |
| 6/2  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 270          | 798        |
| 6/3  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 246          | 1,044      |
| 6/4  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 72           | 1,116      |
| 6/5  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 117          | 1,233      |
| 6/6  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 204          | 1,437      |
| 6/7  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 216          | 1,653      |
| 6/8  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 222          | 1,875      |
| 6/9  | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 618          | 2,493      |
| 6/10 | 0       | 0          | 0     | 0          | 0     | 0          | 0     | 0          | 360          | 2,853      |
| 6/11 | 6       | 6          | 0     | 0          | 0     | 0          | 0     | 0          | 342          | 3,195      |
| 6/12 | 0       | 6          | 0     | 0          | 0     | 0          | 0     | 0          | 66           | 3,261      |
| 6/13 | 0       | 6          | 0     | 0          | 0     | 0          | 0     | 0          | 576          | 3,837      |
| 6/14 | 0       | 6          | 0     | 0          | 0     | 0          | 0     | 0          | 533          | 4,370      |
| 6/15 | 0       | 6          | 0     | 0          | 0     | 0          | 0     | 0          | 1,406        | 5,776      |
| 6/16 | 6       | 12         | 0     | 0          | 0     | 0          | 0     | 0          | 558          | 6,334      |
| 6/17 | 0       | 12         | 0     | 0          | 0     | 0          | 0     | 0          | 876          | 7,210      |
| 6/18 | 6       | 18         | 0     | 0          | 0     | 0          | 0     | 0          | 678          | 7,888      |
| 6/19 | 0       | 18         | 0     | 0          | 0     | 0          | 0     | 0          | 806          | 8,694      |
| 6/20 | 0       | 18         | 0     | 0          | 0     | 0          | 0     | 0          | 978          | 9,672      |
| 6/21 | 12      | 30         | 0     | 0          | 0     | 0          | 0     | 0          | 864          | 10,536     |
| 6/22 | 36      | 66         | 0     | 0          | 0     | 0          | 0     | 0          | 987          | 11,523     |
| 6/23 | 24      | 90         | 0     | 0          | 0     | 0          | 0     | 0          | 515          | 12,038     |
| 6/24 | 18      | 108        | 0     | 0          | 0     | 0          | 0     | 0          | 324          | 12,362     |
| 6/25 | 36      | 144        | 0     | 0          | 0     | 0          | 0     | 0          | 282          | 12,644     |
| 6/26 | 42      | 186        | 0     | 0          | 0     | 0          | 0     | 0          | 390          | 13,034     |
| 6/27 | 12      | 198        | 0     | 0          | 0     | 0          | 0     | 0          | 432          | 13,466     |
| 6/28 | 30      | 228        | 0     | 0          | 0     | 0          | 0     | 0          | 894          | 14,360     |
| 6/29 | 48      | 276        | 0     | 0          | 0     | 0          | 0     | 0          | 456          | 14,816     |
| 6/30 | 30      | 306        | 0     | 0          | 0     | 0          | 0     | 0          | 234          | 15,050     |

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Table 6.–Page 2 of 3.

| Date | Chinook |            | Coho  |            | Pink  |            | Chum  |            | Dolly Varden |            |
|------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
|      | Daily   | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily        | Cumulative |
| 7/1  | 66      | 372        | 0     | 0          | 0     | 0          | 0     | 0          | 1,148        | 16,198     |
| 7/2  | 78      | 450        | 0     | 0          | 0     | 0          | 0     | 0          | 1,590        | 17,788     |
| 7/3  | 48      | 498        | 0     | 0          | 0     | 0          | 0     | 0          | 798          | 18,586     |
| 7/4  | 78      | 576        | 0     | 0          | 0     | 0          | 0     | 0          | 816          | 19,402     |
| 7/5  | 60      | 636        | 0     | 0          | 0     | 0          | 0     | 0          | 624          | 20,026     |
| 7/6  | 114     | 750        | 0     | 0          | 6     | 6          | 0     | 0          | 918          | 20,944     |
| 7/7  | 105     | 855        | 0     | 0          | 18    | 24         | 0     | 0          | 558          | 21,502     |
| 7/8  | 78      | 933        | 0     | 0          | 6     | 30         | 0     | 0          | 333          | 21,835     |
| 7/9  | 84      | 1,017      | 0     | 0          | 0     | 30         | 0     | 0          | 234          | 22,069     |
| 7/10 | 78      | 1,095      | 0     | 0          | 0     | 30         | 0     | 0          | 162          | 22,231     |
| 7/11 | 48      | 1,143      | 0     | 0          | 0     | 30         | 0     | 0          | 156          | 22,387     |
| 7/12 | 55      | 1,198      | 0     | 0          | 0     | 30         | 0     | 0          | 94           | 22,481     |
| 7/13 | 48      | 1,246      | 0     | 0          | 0     | 30         | 0     | 0          | 72           | 22,553     |
| 7/14 | 54      | 1,300      | 0     | 0          | 18    | 48         | 0     | 0          | 228          | 22,781     |
| 7/15 | 48      | 1,348      | 0     | 0          | 6     | 54         | 0     | 0          | 174          | 22,955     |
| 7/16 | 42      | 1,390      | 0     | 0          | 0     | 54         | 0     | 0          | 132          | 23,087     |
| 7/17 | 48      | 1,438      | 0     | 0          | 0     | 54         | 0     | 0          | 102          | 23,189     |
| 7/18 | 12      | 1,450      | 0     | 0          | 0     | 54         | 0     | 0          | 60           | 23,249     |
| 7/19 | 54      | 1,504      | 0     | 0          | 0     | 54         | 0     | 0          | 36           | 23,285     |
| 7/20 | 12      | 1,516      | 0     | 0          | 0     | 54         | 0     | 0          | 96           | 23,381     |
| 7/21 | 20      | 1,536      | 0     | 0          | 32    | 86         | 0     | 0          | 61           | 23,442     |
| 7/22 | 24      | 1,560      | 0     | 0          | 24    | 110        | 0     | 0          | 60           | 23,502     |
| 7/23 | 18      | 1,578      | 0     | 0          | 0     | 110        | 0     | 0          | 30           | 23,532     |
| 7/24 | 30      | 1,608      | 0     | 0          | 6     | 116        | 0     | 0          | 30           | 23,562     |
| 7/25 | 18      | 1,626      | 0     | 0          | 0     | 116        | 0     | 0          | 48           | 23,610     |
| 7/26 | 6       | 1,632      | 0     | 0          | 0     | 116        | 0     | 0          | 18           | 23,628     |
| 7/27 | 18      | 1,650      | 0     | 0          | 1     | 117        | 0     | 0          | 48           | 23,676     |
| 7/28 | 18      | 1,668      | 0     | 0          | 12    | 129        | 6     | 6          | 54           | 23,730     |
| 7/29 | 0       | 1,668      | 0     | 0          | 30    | 159        | 0     | 6          | 108          | 23,838     |
| 7/30 | 30      | 1,698      | 0     | 0          | 37    | 196        | 0     | 6          | 30           | 23,868     |
| 7/31 | 18      | 1,716      | 0     | 0          | 79    | 275        | 6     | 12         | 18           | 23,886     |
| 8/1  | 24      | 1,740      | 0     | 0          | 30    | 305        | 12    | 24         | 30           | 23,916     |
| 8/2  | 12      | 1,752      | 0     | 0          | 30    | 335        | 0     | 24         | 42           | 23,958     |
| 8/3  | 0       | 1,752      | 0     | 0          | 18    | 353        | 0     | 24         | 12           | 23,970     |
| 8/4  | 25      | 1,777      | 0     | 0          | 0     | 353        | 0     | 24         | 18           | 23,988     |
| 8/5  | 0       | 1,777      | 0     | 0          | 0     | 353        | 0     | 24         | 6            | 23,994     |
| 8/6  | 6       | 1,783      | 0     | 0          | 0     | 353        | 0     | 24         | 24           | 24,018     |
| 8/7  | 12      | 1,795      | 0     | 0          | 12    | 365        | 0     | 24         | 6            | 24,024     |
| 8/8  | 0       | 1,795      | 0     | 0          | 0     | 365        | 0     | 24         | 12           | 24,036     |
| 8/9  | 0       | 1,795      | 0     | 0          | 12    | 377        | 0     | 24         | 6            | 24,042     |
| 8/10 | 6       | 1,801      | 6     | 6          | 6     | 383        | 0     | 24         | 6            | 24,048     |
| 8/11 | 24      | 1,825      | 0     | 6          | 12    | 395        | 6     | 30         | 0            | 24,048     |
| 8/12 | 6       | 1,831      | 12    | 18         | 6     | 401        | 0     | 30         | 0            | 24,048     |

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| Date  | Chinook |            | Coho  |            | Pink  |            | Chum  |            | Dolly Varden |            |
|-------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
|       | Daily   | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily        | Cumulative |
| 8/13  | 6       | 1,837      | 6     | 24         | 0     | 401        | 0     | 30         | 6            | 24,054     |
| 8/14  | 0       | 1,837      | 0     | 24         | 0     | 401        | 0     | 30         | 6            | 24,060     |
| 8/15  | 6       | 1,843      | 12    | 36         | 6     | 407        | 0     | 30         | 18           | 24,078     |
| 8/16  | 0       | 1,843      | 6     | 42         | 0     | 407        | 0     | 30         | 6            | 24,084     |
| 8/17  | 0       | 1,843      | 0     | 42         | 6     | 413        | 0     | 30         | 30           | 24,114     |
| 8/18  | 0       | 1,843      | 36    | 78         | 6     | 419        | 0     | 30         | 30           | 24,144     |
| 8/19  | 0       | 1,843      | 6     | 84         | 12    | 431        | 0     | 30         | 0            | 24,144     |
| 8/20  | 0       | 1,843      | 60    | 144        | 7     | 438        | 6     | 36         | 36           | 24,180     |
| 8/21  | 0       | 1,843      | 36    | 180        | 0     | 438        | 0     | 36         | 18           | 24,198     |
| 8/22  | 0       | 1,843      | 73    | 253        | 12    | 450        | 6     | 42         | 18           | 24,216     |
| 8/23  | 0       | 1,843      | 114   | 367        | 0     | 450        | 0     | 42         | 66           | 24,282     |
| 8/24  | 0       | 1,843      | 144   | 511        | 6     | 456        | 0     | 42         | 30           | 24,312     |
| 8/25  | 0       | 1,843      | 164   | 675        | 0     | 456        | 6     | 48         | 78           | 24,390     |
| 8/26  | 0       | 1,843      | 222   | 897        | 0     | 456        | 0     | 48         | 36           | 24,426     |
| 8/27  | 0       | 1,843      | 446   | 1,343      | 0     | 456        | 0     | 48         | 30           | 24,456     |
| 8/28  | 0       | 1,843      | 444   | 1,787      | 0     | 456        | 0     | 48         | 24           | 24,480     |
| 8/29  | 0       | 1,843      | 248   | 2,035      | 0     | 456        | 12    | 60         | 12           | 24,492     |
| 8/30  | 0       | 1,843      | 319   | 2,354      | 0     | 456        | 6     | 66         | 6            | 24,498     |
| 8/31  | 0       | 1,843      | 504   | 2,858      | 0     | 456        | 6     | 72         | 18           | 24,516     |
| 9/1   | 0       | 1,843      | 391   | 3,249      | 0     | 456        | 0     | 72         | 19           | 24,535     |
| 9/2   | 0       | 1,843      | 702   | 3,951      | 0     | 456        | 0     | 72         | 12           | 24,547     |
| 9/3   | 0       | 1,843      | 891   | 4,842      | 0     | 456        | 0     | 72         | 30           | 24,577     |
| 9/4   | 0       | 1,843      | 672   | 5,514      | 0     | 456        | 12    | 84         | 12           | 24,589     |
| 9/5   | 0       | 1,843      | 1,095 | 6,609      | 12    | 468        | 6     | 90         | 6            | 24,595     |
| 9/6   | 0       | 1,843      | 1,073 | 7,682      | 18    | 486        | 6     | 96         | 0            | 24,595     |
| 9/7   | 0       | 1,843      | 1,352 | 9,034      | 0     | 486        | 0     | 96         | 6            | 24,601     |
| 9/8   | 0       | 1,843      | 978   | 10,012     | 0     | 486        | 6     | 102        | 18           | 24,619     |
| 9/9   | 0       | 1,843      | 429   | 10,441     | 0     | 486        | 12    | 114        | 0            | 24,619     |
| 9/10  | 0       | 1,843      | 955   | 11,396     | 0     | 486        | 0     | 114        | 0            | 24,619     |
| 9/11  | 0       | 1,843      | 1,159 | 12,555     | 0     | 486        | 0     | 114        | 0            | 24,619     |
| 9/12  | 0       | 1,843      | 1,632 | 14,187     | 0     | 486        | 0     | 114        | 6            | 24,625     |
| 9/13  | 0       | 1,843      | 2,029 | 16,216     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/14  | 0       | 1,843      | 2,048 | 18,264     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/15  | 0       | 1,843      | 2,109 | 20,373     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/16  | 0       | 1,843      | 1,964 | 22,337     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/17  | 0       | 1,843      | 1,718 | 24,055     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/18  | 0       | 1,843      | 1,129 | 25,184     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/19  | 0       | 1,843      | 1,024 | 26,208     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/20  | 0       | 1,843      | 1,394 | 27,602     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/21  | 0       | 1,843      | 1,064 | 28,666     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/22  | 0       | 1,843      | 881   | 29,547     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| 9/23  | 0       | 1,843      | 744   | 30,291     | 0     | 486        | 0     | 114        | 0            | 24,625     |
| Total |         | 1,843      |       | 30,291     |       | 486        |       | 114        |              | 24,625     |

Note: A post-weir estimate for coho salmon from 9/13–9/23 was produced using DIDSON sonar.

Table 7.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, 1980–2016.

| Year      | Escapement <sup>a</sup> |                   |                   |                   |                           |
|-----------|-------------------------|-------------------|-------------------|-------------------|---------------------------|
|           | Chinook <sup>b</sup>    | Coho <sup>c</sup> | Pink <sup>d</sup> | Chum <sup>d</sup> | Dolly Varden <sup>d</sup> |
| 1980      | 876                     | ND                | ND                | ND                | ND                        |
| 1981      | 1,603                   | ND                | ND                | ND                | ND                        |
| 1982      | 2,412                   | ND                | ND                | ND                | ND                        |
| 1983      | 1,943                   | ND                | ND                | ND                | ND                        |
| 1984      | 5,806                   | ND                | ND                | ND                | ND                        |
| 1985      | 3,144                   | ND                | ND                | ND                | ND                        |
| 1986      | 3,612                   | ND                | ND                | ND                | ND                        |
| 1987      | 2,624                   | ND                | ND                | ND                | ND                        |
| 1988      | 4,868                   | ND                | ND                | ND                | ND                        |
| 1989      | 3,316                   | ND                | ND                | ND                | ND                        |
| 1990      | 4,364                   | ND                | ND                | ND                | ND                        |
| 1991      | 4,531                   | ND                | ND                | ND                | ND                        |
| 1992      | 3,806                   | ND                | ND                | ND                | ND                        |
| 1993      | 1,946                   | ND                | ND                | ND                | ND                        |
| 1994      | 2,963                   | ND                | ND                | ND                | ND                        |
| 1995      | 4,288                   | ND                | ND                | ND                | ND                        |
| 1996      | 3,488                   | 16,843            | 6,030             | 136               | 54,726                    |
| 1997      | 3,824                   | 10,810            | 4,880             | 483               | 26,657                    |
| 1998      | 3,075                   | 14,124            | 11,490            | 156               | 15,235                    |
| 1999      | 3,728                   | 2,414             | 2,524             | 48                | 15,025                    |
| 2000      | 4,285                   | 7,062             | 4,284             | 48                | ND                        |
| 2001      | 3,028                   | 103               | 1,464             | 66                | 6,416                     |
| 2002      | 3,541                   | 9,262             | 3,417             | 67                | 8,179                     |
| 2003      | 6,412                   | 7,635             | 1,897             | 68                | 36,397                    |
| 2004      | 7,840                   | 18,810            | 2,243             | 276               | 20,086                    |
| 2005      | 6,486                   | 18,206            | 13,637            | 408               | 13,940                    |
| 2006      | 3,535                   | 37,113            | 18,401            | 99                | 2,031                     |
| 2007      | 2,000                   | 10,299            | 20,464            | 118               | 6,993                     |
| 2008      | 1,730                   | 13,958            | 22,341            | 124               | 14,776                    |
| 2009      | 1,680                   | 7,670             | 12,873            | 109               | 8,618                     |
| 2010      | 3,679                   | 5,152             | 3,670             | 95                | 17,578                    |
| 2011      | 2,728                   | 5,293             | 16,298            | 145               | 14,133                    |
| 2012      | 1,449                   | 2,663             | 2,849             | 73                | 18,032                    |
| 2013      | 1,253                   | 16,783            | 7,231             | 72                | 17,230                    |
| 2014      | 2,895                   | 108,955           | 3,171             | 58                | 44,899                    |
| 2015      | 2,054                   | 60,209            | 4,269             | 54                | 16,346                    |
| 2016      | 1,843                   | 30,291            | 486               | 114               | 24,625                    |
| Averages  |                         |                   |                   |                   |                           |
| 1996–2015 | 3,436                   | 18,668            | 8,172             | 135               | 18,805                    |
| 2006–2015 | 2,300                   | 26,810            | 11,157            | 95                | 16,064                    |
| 2011–2015 | 2,076                   | 38,781            | 6,764             | 80                | 22,128                    |

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- <sup>a</sup> A video monitoring system was installed at the Chignik weir in 1994.
- <sup>b</sup> No escapement adjustments are made for Chinook salmon that spawn below the weir, or those removed by the sport fishery. Only Chinook salmon larger than approximately 650 mm were enumerated for escapement estimates from 1980 to 1993.
- <sup>c</sup> Coho escapements beginning in 2014 include a post-weir estimate from DIDSON based counts. Escapements prior to 2014 do not include a post-weir estimate.
- <sup>d</sup> No reliable escapement (ND) estimates were generated for pink, chum, or coho salmon or Dolly Varden from 1980 to 1996. No post-weir estimates are reported here for pink and chum salmon or Dolly Varden.

Table 8.—Total Chignik River sockeye salmon escapement and escapement goals, based on post-season analysis, by run, 1980–2016.

| Year      | Early run       | Late run        | Total           |
|-----------|-----------------|-----------------|-----------------|
| 1980      | 311,332         | 352,729         | 664,061         |
| 1981      | 438,540         | 392,909         | 831,449         |
| 1982      | 616,117         | 221,601         | 837,718         |
| 1983      | 426,177         | 409,458         | 835,635         |
| 1984      | 597,712         | 267,862         | 865,574         |
| 1985      | 376,576         | 369,262         | 745,838         |
| 1986      | 566,088         | 207,231         | 773,319         |
| 1987      | 589,291         | 214,452         | 803,743         |
| 1988      | 420,577         | 255,180         | 675,757         |
| 1989      | 384,004         | 557,171         | 941,175         |
| 1990      | 434,543         | 335,867         | 770,410         |
| 1991      | 672,871         | 367,227         | 1,040,098       |
| 1992      | 360,681         | 405,922         | 766,603         |
| 1993      | 364,261         | 333,116         | 697,377         |
| 1994      | 769,462         | 197,447         | 966,909         |
| 1995      | 366,163         | 373,757         | 739,920         |
| 1996      | 464,461         | 284,676         | 749,137         |
| 1997      | 396,667         | 378,951         | 775,618         |
| 1998      | 410,659         | 290,469         | 701,128         |
| 1999      | 457,429         | 258,537         | 715,966         |
| 2000      | 536,141         | 269,084         | 805,225         |
| 2001      | 744,013         | 392,905         | 1,136,918       |
| 2002      | 380,701         | 343,616         | 724,317         |
| 2003      | 350,004         | 334,119         | 684,123         |
| 2004      | 363,800         | 214,459         | 578,259         |
| 2005      | 355,091         | 225,366         | 580,457         |
| 2006      | 366,497         | 368,996         | 735,493         |
| 2007      | 361,091         | 293,883         | 654,974         |
| 2008      | 377,579         | 328,479         | 706,058         |
| 2009      | 391,476         | 328,586         | 720,062         |
| 2010      | 432,535         | 311,291         | 743,826         |
| 2011      | 488,930         | 264,887         | 753,817         |
| 2012      | 353,441         | 358,948         | 712,389         |
| 2013      | 386,782         | 369,319         | 756,101         |
| 2014      | 360,381         | 291,228         | 651,609         |
| 2015      | 534,088         | 589,810         | 1,123,898       |
| 2016      | 418,290         | 354,884         | 773,174         |
| Year      | Early Run       | Late Run        | Total           |
| SEG       | 350,000–450,000 | 275,000–400,000 | 625,000–850,000 |
| Averages  |                 |                 |                 |
| 1996–2015 | 425,588         | 324,880         | 750,469         |
| 2006–2015 | 405,280         | 350,543         | 755,823         |
| 2011–2015 | 424,724         | 374,838         | 799,563         |

Table 9.—Estimated peak sockeye salmon escapement estimates for Black Lake tributaries, 1980–2016.

| Year              | Fan Creek | Milk Creek | Boulevard Creek | Alec River | Conglomerate Creek | Broad Creek | Total   |
|-------------------|-----------|------------|-----------------|------------|--------------------|-------------|---------|
| 1980              | 127,000   | 16,000     | 75,000          | 70,500     | 1,500              | 68,000      | 358,000 |
| 1981              | 93,000    | 4,700      | 59,000          | 76,500     | 20,000             | 27,000      | 280,200 |
| 1982              | 50,000    | 5,500      | 60,000          | 43,000     | 20,000             | 32,000      | 210,500 |
| 1983              | ND        | ND         | ND              | ND         | ND                 | ND          | -       |
| 1984              | 50,000    | 22,200     | 70,000          | 30,500     | 31,000             | 36,000      | 239,700 |
| 1985              | 28,000    | 5,500      | 36,000          | 65,000     | 5,500              | 17,000      | 157,000 |
| 1986              | 60,000    | 15,300     | 47,000          | 76,000     | 39,000             | 27,000      | 264,300 |
| 1987              | 52,000    | 12,200     | 133,000         | 88,400     | 45,900             | 32,500      | 364,000 |
| 1988              | 54,000    | 71,000     | 83,700          | 106,500    | 2,300              | 26,500      | 344,000 |
| 1989              | 19,300    | 21,000     | 64,000          | 133,000    | 1,000              | 7,500       | 245,800 |
| 1990              | 32,600    | 7,400      | 35,900          | 49,800     | 2,200              | 18,000      | 145,900 |
| 1991              | 14,600    | 19,500     | 48,000          | ND         | 2,000              | 13,000      | 97,100  |
| 1992              | ND        | ND         | ND              | 392,000    | ND                 | ND          | 392,000 |
| 1993              | 40,900    | 12,600     | 97,600          | 8,000      | 77,000             | 18,200      | 254,300 |
| 1994              | 70,000    | 25,000     | 125,000         | 350,000    | 20,000             | 51,000      | 641,000 |
| 1995              | 23,000    | 10,000     | 60,000          | 200,000    | 40,000             | 60,000      | 393,000 |
| 1996              | 40,000    | 24,000     | 51,000          | 100,000    | 50,000             | 45,000      | 310,000 |
| 1997              | 60,000    | 5,000      | 48,000          | 166,000    | 8,000              | 20,000      | 307,000 |
| 1998              | 90,000    | 14,000     | 100,000         | 50,000     | 9,000              | 62,000      | 325,000 |
| 1999              | 70,000    | 8,100      | 50,000          | 226,000    | 1,000              | 22,000      | 377,100 |
| 2000              | 41,000    | 29,000     | 126,000         | 210,000    | 26,000             | 93,000      | 525,000 |
| 2001              | 77,000    | 19,000     | 265,000         | 207,000    | 4,000              | 89,000      | 661,000 |
| 2002              | 43,000    | ND         | 20,000          | 21,000     | 11,000             | 7,000       | 102,000 |
| 2003              | 17,600    | 400        | 2,500           | 188,000    | ND                 | 1,000       | 209,500 |
| 2004              | 4,290     | 1,490      | 15,560          | 137,700    | 200                | ND          | 159,240 |
| 2005              | 4,300     | ND         | ND              | ND         | 7,700              | ND          | 12,000  |
| 2006              | 16,000    | 500        | 15,500          | 46,700     | 2,500              | 19,800      | 101,000 |
| 2007              | 40,200    | 8,800      | 23,600          | 199,000    | 4,000              | 1,000       | 276,600 |
| 2008              | 44,000    | 7,600      | 34,800          | 208,000    | 6,600              | 3,200       | 304,200 |
| 2009              | 34,500    | 11,500     | 40,500          | 182,500    | 5,000              | 2,100       | 276,100 |
| 2010              | 10,000    | 1,700      | 24,000          | 100,000    | 2,100              | 7,000       | 144,800 |
| 2011              | 45,000    | 5,000      | 65,000          | 215,000    | 12,000             | ND          | 342,000 |
| 2012              | 47,000    | 4,000      | 55,000          | 80,000     | 5,000              | 5,000       | 196,000 |
| 2013              | 25,000    | ND         | 3,000           | 250,000    | 0                  | 0           | 278,000 |
| 2014              | 28,400    | ND         | 41,000          | 210,000    | 6,600              | 41,000      | 327,000 |
| 2015              | 23,100    | ND         | 39,400          | 185,700    | 4,600              | 5,000       | 257,800 |
| 2016 <sup>a</sup> | 34,000    | ND         | 9,300           | ND         | 5,000              | 5,000       | 54,400  |
| Averages          |           |            |                 |            |                    |             |         |
| 1996–2015         | 38,020    | 9,339      | 53,677          | 156,979    | 8,700              | 24,888      | 274,567 |
| 2006–2015         | 31,320    | 5,586      | 34,180          | 167,690    | 4,840              | 9,344       | 250,350 |
| 2011–2015         | 33,700    | 4,500      | 40,680          | 188,140    | 5,640              | 12,750      | 280,160 |

Note: No reliable escapement estimates (ND) were available for some years or streams within a year. All estimates were done via aerial surveys.

<sup>a</sup> A reliable estimate for the Alec River was not achieved in 2016 because the majority of the river was muddy and turbid during the salmon season.



Table 10.—Estimated peak sockeye salmon escapement estimates for Chignik Lake and Black River tributaries, 1980–2016.

| Year      | Black River    |           |                 |         | Chignik Lake |            |                | Total   |
|-----------|----------------|-----------|-----------------|---------|--------------|------------|----------------|---------|
|           | Bearskin Creek | West Fork | Chiaktuak Creek | Total   | Clark River  | Home Creek | Hatchery Beach |         |
| 1980      | 3,600          | 33,000    | 40,400          | 77,000  | ND           | ND         | ND             | -       |
| 1981      | 950            | 1,500     | 18,700          | 21,150  | ND           | ND         | ND             | -       |
| 1982      | 1,066          | 10,791    | 5,000           | 16,857  | ND           | ND         | ND             | -       |
| 1983      | ND             | ND        | 6,000           | 6,000   | ND           | ND         | ND             | -       |
| 1984      | ND             | ND        | 8,200           | 8,200   | ND           | ND         | ND             | -       |
| 1985      | 350            | 450       | 1,200           | 2,000   | ND           | ND         | ND             | -       |
| 1986      | ND             | ND        | 8,300           | 8,300   | ND           | ND         | ND             | -       |
| 1987      | ND             | ND        | 1,000           | 1,000   | ND           | ND         | ND             | -       |
| 1988      | ND             | ND        | 4,600           | 4,600   | ND           | ND         | ND             | -       |
| 1989      | ND             | ND        | 2,100           | 2,100   | ND           | ND         | ND             | -       |
| 1990      | 300            | 0         | 50              | 350     | ND           | ND         | ND             | -       |
| 1991      | ND             | ND        | ND              | -       | ND           | ND         | ND             | -       |
| 1992      | ND             | ND        | ND              | -       | ND           | ND         | ND             | -       |
| 1993      | ND             | ND        | 16,000          | 16,000  | ND           | ND         | ND             | -       |
| 1994      | 5,000          | ND        | 31,000          | 36,000  | 18,000       | 9,200      | ND             | 27,200  |
| 1995      | 7,100          | 18,000    | 31,000          | 56,100  | 13,000       | 6,000      | 150,000        | 169,000 |
| 1996      | 1,800          | 22,000    | 22,000          | 45,800  | 13,000       | 5,500      | 70,000         | 88,500  |
| 1997      | 9,000          | 9,000     | 23,500          | 41,500  | 25,000       | 8,000      | 35,000         | 68,000  |
| 1998      | 4,700          | 71,000    | 27,500          | 103,200 | 21,000       | 6,000      | 62,000         | 89,000  |
| 1999      | 8,300          | 17,500    | 13,000          | 38,800  | 8,500        | 1,620      | 15,000         | 25,120  |
| 2000      | 2,600          | 3,700     | 10,600          | 16,900  | 18,000       | 19,700     | 2,000          | 39,700  |
| 2001      | ND             | ND        | 9,500           | 9,500   | 23,000       | 11,000     | 25,000         | 59,000  |
| 2002      | ND             | 15,000    | 2,300           | 17,300  | ND           | ND         | ND             | -       |
| 2003      | ND             | ND        | 2,000           | 2,000   | ND           | ND         | ND             | -       |
| 2004      | 100            | 600       | 750             | 1,450   | 2,500        | 2,000      | ND             | 4,500   |
| 2005      | 900            | 900       | 5,100           | 6,900   | ND           | ND         | ND             | -       |
| 2006      | 1,400          | 3,500     | 6,200           | 11,100  | 13,500       | 3,000      | 3,000          | 19,500  |
| 2007      | 400            | 14,500    | 30,300          | 45,200  | 59,000       | 9,800      | 65,000         | 133,800 |
| 2008      | 13,500         | 18,000    | 39,600          | 71,100  | 39,500       | 12,300     | 106,000        | 157,800 |
| 2009      | 600            | 11,100    | 21,800          | 33,500  | 13,000       | 3,500      | ND             | 16,500  |
| 2010      | 1,700          | 3,500     | 5,800           | 11,000  | 7,600        | 0          | 31,000         | 38,600  |
| 2011      | 1,000          | 11,000    | 11,000          | 23,000  | 35,000       | 2,000      | 28,000         | 65,000  |
| 2012      | 150            | 750       | 7,500           | 8,400   | 57,000       | 2,500      | 170,000        | 229,500 |
| 2013      | 100            | 1,100     | 15,000          | 18,213  | 55,800       | 2,300      | 30,000         | 88,100  |
| 2014      | 3,100          | 12,400    | 41,200          | 56,700  | 24,900       | 3,800      | 102,000        | 130,700 |
| 2015      | 2,600          | 24,800    | 16,150          | 43,550  | 14,120       | 1,260      | 47,000         | 62,380  |
| 2016      | 900            | 7,290     | 10,640          | 18,830  | 16,760       | 500        | 57,300         | 74,560  |
| Averages  |                |           |                 |         |              |            |                |         |
| 1996–2015 | 3,056          | 13,353    | 15,540          | 30,256  | 25,319       | 5,546      | 52,733         | 77,394  |
| 2006–2015 | 2,455          | 10,065    | 19,455          | 32,176  | 31,942       | 4,046      | 64,667         | 94,188  |
| 2011–2015 | 1,390          | 10,010    | 18,170          | 29,973  | 37,364       | 2,372      | 75,400         | 115,136 |

Note: No reliable escapement estimates (ND) were available for some years or streams within a year. All estimates were done via aerial surveys.

Table 11.—Estimated peak pink salmon escapement in the Chignik Management Area, by district and year, 1980–2016.

| Year | Districts   |         |           |         |            | Total     |
|------|-------------|---------|-----------|---------|------------|-----------|
|      | Chignik Bay | Central | Eastern   | Western | Perryville |           |
| 1980 | 3,000       | 99,400  | 425,500   | 139,500 | 74,800     | 742,200   |
| 1981 | 1,400       | 76,500  | 154,700   | 249,300 | 116,000    | 597,900   |
| 1982 | 2,400       | 26,100  | 301,500   | 45,900  | 13,400     | 389,300   |
| 1983 | 1,000       | 11,000  | 46,300    | 36,000  | 64,500     | 158,800   |
| 1984 | 1,790       | 67,890  | 328,150   | 153,450 | 84,700     | 635,980   |
| 1985 | ND          | 6,500   | 129,450   | 29,850  | 186,650    | 352,450   |
| 1986 | ND          | 79,750  | 535,600   | 39,100  | 13,100     | 667,550   |
| 1987 | ND          | 103,350 | 137,600   | 31,400  | 38,900     | 311,250   |
| 1988 | 1,640       | 139,800 | 578,620   | 194,000 | 160,700    | 1,074,760 |
| 1989 | 9,820       | 174,600 | 558,100   | 52,900  | 250,200    | 1,045,620 |
| 1990 | 1,850       | 72,100  | 496,800   | 33,300  | 63,400     | 667,450   |
| 1991 | 10,200      | 129,850 | 82,900    | 95,400  | 260,300    | 578,650   |
| 1992 | 11,600      | 117,900 | 907,325   | 35,435  | 92,225     | 1,164,485 |
| 1993 | 900         | 130,600 | 122,200   | 37,700  | 407,440    | 698,840   |
| 1994 | 23,000      | 136,000 | 620,000   | 92,300  | 127,300    | 998,600   |
| 1995 | 85,000      | 301,000 | 1,069,000 | 303,000 | 420,300    | 2,178,300 |
| 1996 | 15,000      | 118,000 | 572,700   | 144,000 | 238,800    | 1,088,500 |
| 1997 | 17,000      | 322,000 | 827,000   | 185,000 | 161,700    | 1,512,700 |
| 1998 | 7,050       | 115,200 | 762,700   | 101,500 | 177,000    | 1,163,450 |
| 1999 | 2,375       | 259,100 | 357,900   | 63,050  | 145,000    | 827,425   |
| 2000 | 4,800       | 85,050  | 557,950   | 41,600  | 48,420     | 737,820   |
| 2001 | 14,400      | 279,600 | 777,100   | 108,600 | 75,300     | 1,255,000 |
| 2002 | 10,500      | 109,100 | 603,650   | 73,600  | 32,120     | 828,970   |
| 2003 | 46,500      | 375,500 | 842,700   | 58,550  | 79,800     | 1,403,050 |
| 2004 | 27,300      | 257,000 | 601,900   | 94,340  | 134,320    | 1,114,860 |
| 2005 | 160,000     | 473,400 | 512,350   | 257,500 | 188,600    | 1,591,850 |
| 2006 | 27,401      | 36,175  | 195,950   | 31,800  | 83,500     | 374,826   |
| 2007 | 62,464      | 291,800 | 565,800   | 113,000 | 184,000    | 1,217,064 |
| 2008 | 69,841      | 117,650 | 402,880   | 99,460  | 173,200    | 863,031   |
| 2009 | 28,973      | 130,700 | 462,840   | 130,100 | 116,450    | 869,063   |
| 2010 | 8,020       | 52,650  | 228,500   | 22,000  | 19,400     | 330,570   |
| 2011 | 32,348      | 223,500 | 504,000   | 86,650  | 139,750    | 986,248   |

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| Year               | Districts   |         |         |         |            | Total     |
|--------------------|-------------|---------|---------|---------|------------|-----------|
|                    | Chignik Bay | Central | Eastern | Western | Perryville |           |
| 2012               | 11,849      | 63,950  | 155,500 | 35,700  | 35,700     | 302,699   |
| 2013               | 24,131      | 223,900 | 411,060 | 63,200  | 141,700    | 863,991   |
| 2014               | 7,669       | 30,500  | 132,050 | 46,850  | 18,090     | 235,159   |
| 2015               | 11,329      | 232,650 | 702,400 | 80,200  | 105,950    | 1,132,529 |
| 2016               | 1,386       | 20,800  | 70,970  | 24,790  | 21,530     | 139,476   |
| Averages           |             |         |         |         |            |           |
| 1996–2015          | 29,448      | 189,871 | 508,847 | 91,835  | 114,940    | 934,940   |
| 2006–2015          | 28,403      | 140,348 | 376,098 | 70,896  | 94,823     | 717,518   |
| 2011–2015          | 17,465      | 154,900 | 381,002 | 62,520  | 88,238     | 704,125   |
| Even-year averages |             |         |         |         |            |           |
| 1996–2014          | 18,943      | 98,528  | 421,378 | 69,085  | 96,055     | 703,989   |
| 2006–2014          | 24,956      | 60,185  | 222,976 | 47,162  | 54,982     | 421,257   |
| 2010–2014          | 9,179       | 49,033  | 172,017 | 34,850  | 24,397     | 289,476   |

*Note:* No reliable escapement estimates (ND) were available for some years or streams within a year. This table reflects the total peak escapement of 49 streams in the CMA that are monitored for in-season management, not just the 8 index streams used to compute the escapement index.

All escapement estimates were via peak aerial survey, with the exception of Chignik River, which was included in the Chignik Bay District estimate.

Table 12.—Estimated peak pink salmon combined escapement of index streams, and escapement objectives, 2006–2016.

| Year                           | Total estimated peak escapement <sup>a</sup> |
|--------------------------------|--|
| 2006                           | 163,800                                      |
| 2007                           | 384,500                                      |
| 2008                           | 260,800                                      |
| 2009                           | 344,050                                      |
| 2010                           | 98,400                                       |
| 2011                           | 272,000                                      |
| 2012                           | 111,000                                      |
| 2013                           | 231,800                                      |
| 2014                           | 87,240                                       |
| 2015                           | 404,000                                      |
| 2016                           | 68,100                                       |
| Even-year SEG                  | 170,000–280,000                              |
| Even-year average<br>2006–2014 | 144,248                                      |

<sup>a</sup> Calculated using peak aerial surveys from the 8 index streams established in Schaberg et al. 2015.

Table 13.—Estimated peak chum salmon escapement in the Chignik Management Area, by district and year, 1980–2016.

| Year <sup>b</sup> | District <sup>a</sup> |         |         |         |            | Total   |
|-------------------|-----------------------|---------|---------|---------|------------|---------|
|                   | Chignik Bay           | Central | Eastern | Western | Perryville |         |
| 1980              | 300                   | 34,200  | 107,000 | 56,500  | 29,100     | 227,100 |
| 1981              | 500                   | 26,100  | 126,000 | 70,300  | 19,300     | 242,200 |
| 1982              | 1,400                 | 49,400  | 145,400 | 35,400  | 23,600     | 255,200 |
| 1983              | 100                   | 17,000  | 50,200  | 20,100  | 8,200      | 95,600  |
| 1984              | 300                   | 35,400  | 214,700 | 73,800  | 46,000     | 370,200 |
| 1985              | 0                     | 9,600   | 4,900   | 34,600  | 12,900     | 62,000  |
| 1986              | 0                     | 31,000  | 8,500   | 5,300   | 7,700      | 52,500  |
| 1987              | 100                   | 17,500  | 38,300  | 19,700  | 9,800      | 85,400  |
| 1988              | 15,300                | 55,800  | 221,900 | 27,400  | 41,400     | 361,800 |
| 1989              | 4,200                 | 34,700  | 74,300  | 7,400   | 15,900     | 136,500 |
| 1990              | 1,500                 | 28,000  | 139,700 | 28,800  | 55,800     | 253,800 |
| 1991              | 0                     | 18,000  | 70,400  | 38,100  | 343,200    | 469,700 |
| 1992              | 100                   | 173,100 | 306,900 | 53,300  | 40,300     | 573,700 |
| 1993              | 300                   | 39,400  | 135,200 | 14,000  | 66,800     | 255,700 |
| 1994              | 1,500                 | 102,600 | 129,200 | 23,000  | 126,000    | 382,300 |
| 1995              | 10,300                | 44,500  | 112,800 | 45,700  | 134,600    | 347,900 |
| 1996              | 16,400                | 45,100  | 130,500 | 44,500  | 132,000    | 368,500 |
| 1997              | 18,500                | 65,700  | 290,000 | 60,500  | 152,800    | 587,500 |
| 1998              | 4,500                 | 32,000  | 97,700  | 30,600  | 214,500    | 379,300 |
| 1999              | 2,300                 | 32,400  | 167,100 | 16,300  | 117,300    | 335,400 |
| 2000              | 100                   | 22,700  | 216,000 | 12,700  | 51,900     | 303,400 |
| 2001              | 4,100                 | 36,500  | 406,900 | 35,500  | 67,800     | 550,800 |
| 2002              | 67                    | 11,615  | 174,850 | 17,082  | 32,020     | 235,634 |
| 2003              | 899                   | 43,191  | 152,854 | 39,050  | 64,331     | 300,325 |
| 2004              | 376                   | 30,310  | 277,240 | 3,100   | 38,492     | 349,518 |
| 2005              | 30,000                | 159,100 | 36,350  | 22,000  | 61,250     | 308,700 |
| 2006              | 1,099                 | 3,450   | 53,940  | 6,000   | 29,000     | 93,489  |
| 2007              | 6,118                 | 25,200  | 58,000  | 26,500  | 122,280    | 238,098 |
| 2008              | 17,624                | 17,850  | 57,120  | 21,240  | 83,425     | 197,259 |
| 2009              | 10,809                | 23,750  | 138,900 | 9,200   | 35,500     | 218,159 |
| 2010              | 1,095                 | 17,000  | 60,525  | 19,400  | 79,200     | 177,220 |
| 2011              | 4,145                 | 32,500  | 177,000 | 9,000   | 55,500     | 278,145 |

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| Year <sup>b</sup> | District <sup>a</sup> |         |         |         |            | Total   |
|-------------------|-----------------------|---------|---------|---------|------------|---------|
|                   | Chignik Bay           | Central | Eastern | Western | Perryville |         |
| 2012              | 1,173                 | 35,000  | 103,000 | 25,500  | 46,300     | 210,973 |
| 2013              | 672                   | 53,600  | 63,935  | 20,200  | 197,500    | 335,907 |
| 2014              | 658                   | 21,100  | 27,620  | 11,800  | 40,200     | 101,378 |
| 2015              | 554                   | 28,700  | 152,800 | 13,810  | 42,350     | 238,214 |
| 2016              | 514                   | 12,500  | 62,890  | 9,400   | 32,300     | 117,604 |
| Averages          |                       |         |         |         |            |         |
| 1996–2015         | 3,951                 | 29,028  | 111,921 | 15,728  | 59,924     | 220,552 |
| 2006–2015         | 4,395                 | 25,815  | 89,284  | 16,265  | 73,126     | 208,884 |
| 2011–2015         | 1,440                 | 34,180  | 104,871 | 16,062  | 76,370     | 232,923 |

*Note:* This table reflects the total peak escapement of 49 streams in the CMA that are monitored for in-season management, not just the 6 index streams used to compute the escapement index.

All estimates were via aerial survey, with the exception of Chignik River, which was included in the Chignik Bay District estimate.

Table 14.—Estimated peak chum salmon combined escapement of index streams, and escapement objectives, 2006–2016.

| Year                 | Total estimated peak escapement <sup>a</sup> |
|----------------------|--|
| 2006                 | 41,420                                       |
| 2007                 | 132,200                                      |
| 2008                 | 116,240                                      |
| 2009                 | 108,300                                      |
| 2010                 | 102,625                                      |
| 2011                 | 119,000                                      |
| 2012                 | 93,800                                       |
| 2013                 | 109,900                                      |
| 2014                 | 46,720                                       |
| 2015                 | 123,400                                      |
| 2016                 | 69,900                                       |
| SEG                  | 45,000–110,000                               |
| Average<br>2006–2015 | 99,361                                       |

<sup>a</sup> Calculated using peak aerial surveys from the 6 index streams established in Schaberg et al. 2015.

Table 15.—Total commercial salmon harvests (including home pack and the department's test fishery harvests) from the Chignik Management Area by species and year, 1980–2016.

| Year      | Permits making deliveries | Landings | Harvest |           |         |           |         | Total     |
|-----------|---------------------------|----------|---------|-----------|---------|-----------|---------|-----------|
|           |                           |          | Chinook | Sockeye   | Coho    | Pink      | Chum    |           |
| 1980      | 104                       | 3,134    | 2,344   | 859,966   | 119,573 | 1,093,184 | 252,521 | 2,327,588 |
| 1981      | 105                       | 4,222    | 2,694   | 1,839,469 | 78,805  | 1,162,613 | 580,332 | 3,663,913 |
| 1982      | 103                       | 3,606    | 5,236   | 1,521,686 | 300,273 | 873,384   | 390,096 | 3,090,675 |
| 1983      | 102                       | 4,357    | 5,488   | 1,824,175 | 61,927  | 321,178   | 159,412 | 2,372,180 |
| 1984      | 100                       | 3,927    | 4,318   | 2,660,619 | 110,128 | 444,804   | 63,303  | 3,283,172 |
| 1985      | 107                       | 3,392    | 1,887   | 921,502   | 191,162 | 160,128   | 22,805  | 1,297,484 |
| 1986      | 102                       | 4,178    | 3,037   | 1,645,834 | 116,633 | 647,125   | 176,640 | 2,589,269 |
| 1987      | 104                       | 3,856    | 2,651   | 1,898,838 | 150,414 | 246,775   | 127,261 | 2,425,939 |
| 1988      | 102                       | 3,895    | 7,296   | 795,841   | 370,420 | 2,997,159 | 267,775 | 4,438,491 |
| 1989      | 101                       | 3,183    | 3,542   | 1,159,287 | 68,233  | 27,712    | 1,624   | 1,260,398 |
| 1990      | 102                       | 5,405    | 9,901   | 2,093,650 | 130,131 | 550,008   | 270,004 | 3,053,694 |
| 1991      | 103                       | 3,856    | 3,157   | 1,895,665 | 165,625 | 1,169,248 | 261,096 | 3,494,791 |
| 1992      | 102                       | 4,172    | 10,832  | 1,277,449 | 310,943 | 1,554,073 | 222,134 | 3,375,431 |
| 1993      | 103                       | 4,241    | 19,515  | 1,697,351 | 229,459 | 1,648,377 | 122,360 | 3,717,062 |
| 1994      | 100                       | 3,707    | 3,919   | 1,618,973 | 237,204 | 431,063   | 227,276 | 2,518,435 |
| 1995      | 101                       | 5,113    | 5,493   | 1,724,045 | 281,518 | 2,057,998 | 380,954 | 4,450,008 |
| 1996      | 101                       | 4,565    | 3,145   | 1,958,393 | 193,246 | 189,068   | 120,891 | 2,464,743 |
| 1997      | 100                       | 3,394    | 3,120   | 770,347   | 90,908  | 844,431   | 155,905 | 1,864,711 |
| 1998      | 86                        | 3,348    | 4,503   | 1,054,439 | 129,539 | 776,988   | 128,996 | 2,094,465 |
| 1999      | 91                        | 4,382    | 3,507   | 3,116,527 | 89,610  | 1,698,651 | 140,597 | 5,048,892 |
| 2000      | 100                       | 3,268    | 2,612   | 1,775,225 | 123,222 | 428,064   | 120,957 | 2,450,080 |
| 2001      | 93                        | 2,906    | 2,939   | 1,511,587 | 131,448 | 1,281,767 | 199,003 | 3,126,744 |
| 2002      | 42                        | 2,432    | 1,521   | 1,050,553 | 49,372  | 66,050    | 54,559  | 1,222,055 |
| 2003      | 44                        | 2,073    | 3,068   | 1,100,297 | 103,896 | 502,638   | 64,044  | 1,773,943 |
| 2004      | 33                        | 1,346    | 2,520   | 704,652   | 37      | 2,380     | 505     | 710,094   |
| 2005      | 98                        | 1,681    | 3,408   | 1,152,133 | 6,956   | 194,045   | 8,821   | 1,365,363 |
| 2006      | 49                        | 2,066    | 2,256   | 902,709   | 39,221  | 383,574   | 61,630  | 1,389,390 |
| 2007      | 56                        | 2,101    | 1,773   | 834,547   | 73,277  | 2,019,748 | 78,553  | 3,007,898 |
| 2008      | 55                        | 2,217    | 970     | 687,270   | 161,536 | 2,389,958 | 209,325 | 3,449,059 |
| 2009      | 56                        | 2,172    | 3,319   | 1,198,105 | 110,373 | 1,408,339 | 256,425 | 2,976,561 |
| 2010      | 66                        | 2,532    | 10,380  | 1,379,785 | 159,198 | 489,781   | 581,329 | 2,620,473 |
| 2011      | 65                        | 2,617    | 6,586   | 2,497,004 | 76,792  | 905,166   | 269,503 | 3,755,051 |
| 2012      | 70                        | 2,915    | 3,687   | 1,800,121 | 33,316  | 137,706   | 171,112 | 2,145,942 |
| 2013      | 77                        | 3,153    | 2,962   | 2,405,151 | 32,312  | 871,871   | 154,965 | 3,467,261 |
| 2014      | 71                        | 1,525    | 8,846   | 620,339   | 132,459 | 352,115   | 55,152  | 1,168,911 |
| 2015      | 72                        | 2,276    | 9,204   | 1,552,495 | 82,054  | 1,978,211 | 101,017 | 3,722,981 |
| 2016      | 70                        | 2,554    | 20,719  | 1,394,091 | 94,397  | 140,913   | 118,435 | 1,768,555 |
| Averages  |                           |          |         |           |         |           |         |           |
| 1996–2015 | 71                        | 2,648    | 4,016   | 1,403,584 | 90,939  | 521,568   | 146,664 | 2,491,231 |
| 2006–2015 | 64                        | 2,357    | 4,998   | 1,387,753 | 90,054  | 1,093,647 | 193,901 | 2,770,353 |
| 2011–2015 | 71                        | 2,497    | 6,257   | 1,775,022 | 71,387  | 849,014   | 150,350 | 2,852,029 |



Table 16.—Annual Chignik Management Area Chinook salmon harvest, 1980–2016.

| Year      | Test fish |        | Commercial catch |         | Home pack |                     | Total  |         |
|-----------|-----------|--------|------------------|---------|-----------|---------------------|--------|---------|
|           | Number    | Pounds | Number           | Pounds  | Number    | Pounds <sup>a</sup> | Number | Pounds  |
| 1980      | ND        | ND     | 2,344            | 32,255  | ND        | ND                  | 2,344  | 32,255  |
| 1981      | ND        | ND     | 2,694            | 50,832  | ND        | ND                  | 2,694  | 50,832  |
| 1982      | ND        | ND     | 5,236            | 59,753  | ND        | ND                  | 5,236  | 59,753  |
| 1983      | ND        | ND     | 5,488            | 96,159  | ND        | ND                  | 5,488  | 96,159  |
| 1984      | ND        | ND     | 4,318            | 99,567  | ND        | ND                  | 4,318  | 99,567  |
| 1985      | 10        | 249    | 1,877            | 44,625  | ND        | ND                  | 1,887  | 44,874  |
| 1986      | ND        | ND     | 3,037            | 66,772  | ND        | ND                  | 3,037  | 66,772  |
| 1987      | 0         | 0      | 2,651            | 49,482  | ND        | ND                  | 2,651  | 49,482  |
| 1988      | 0         | 0      | 7,296            | 128,880 | ND        | ND                  | 7,296  | 128,880 |
| 1989      | 0         | 0      | 3,542            | 76,698  | ND        | ND                  | 3,542  | 76,698  |
| 1990      | 0         | 0      | 9,901            | 134,265 | ND        | ND                  | 9,901  | 134,265 |
| 1991      | 3         | 37     | 3,154            | 66,666  | ND        | ND                  | 3,157  | 66,703  |
| 1992      | 2         | 8      | 10,830           | 138,082 | ND        | ND                  | 10,832 | 138,090 |
| 1993      | 14        | 65     | 19,501           | 234,188 | ND        | ND                  | 19,515 | 234,253 |
| 1994      | 16        | 245    | 3,903            | 71,620  | ND        | ND                  | 3,919  | 71,865  |
| 1995      | 0         | 0      | 5,261            | 111,187 | 232       | 4,903               | 5,493  | 116,090 |
| 1996      | 0         | 0      | 3,105            | 62,603  | 40        | 806                 | 3,145  | 63,409  |
| 1997      | 7         | 149    | 3,025            | 47,075  | 88        | 1,369               | 3,120  | 48,593  |
| 1998      | 21        | 450    | 4,374            | 66,080  | 108       | 1,632               | 4,503  | 68,162  |
| 1999      | 0         | 0      | 3,296            | 56,706  | 211       | 3,630               | 3,507  | 60,336  |
| 2000      | 0         | 0      | 2,592            | 34,757  | 20        | 268                 | 2,612  | 35,025  |
| 2001      | 4         | 120    | 2,845            | 39,252  | 90        | 1,242               | 2,939  | 40,614  |
| 2002      | 3         | 25     | 1,441            | 13,725  | 77        | 733                 | 1,521  | 14,483  |
| 2003      | 2         | 13     | 2,757            | 39,716  | 309       | 4,451               | 3,068  | 44,180  |
| 2004      | 4         | 57     | 2,337            | 43,652  | 179       | 3,343               | 2,520  | 47,052  |
| 2005      | 1         | 23     | 3,136            | 55,638  | 271       | 6,157               | 3,408  | 61,818  |
| 2006      | 1         | 21     | 2,187            | 38,015  | 68        | 1,536               | 2,256  | 39,572  |
| 2007      | 11        | 228    | 1,746            | 29,745  | 16        | 308                 | 1,773  | 30,281  |
| 2008      | 0         | 0      | 955              | 14,463  | 15        | 227                 | 970    | 14,690  |
| 2009      | 0         | 0      | 3,244            | 30,791  | 75        | 1,166               | 3,319  | 31,957  |
| 2010      | 0         | 0      | 10,262           | 102,684 | 118       | 1,708               | 10,380 | 104,392 |
| 2011      | 4         | 45     | 6,440            | 72,305  | 142       | 2,486               | 6,586  | 74,836  |
| 2012      | 0         | 0      | 3,636            | 48,850  | 51        | 1,053               | 3,687  | 49,903  |
| 2013      | 2         | 25     | 2,872            | 35,587  | 85        | 1,644               | 2,959  | 37,256  |
| 2014      | 2         | 6      | 8,809            | 75,747  | 35        | 417                 | 8,846  | 76,170  |
| 2015      | 15        | 160    | 9,105            | 71,722  | 84        | 1,045               | 9,204  | 72,927  |
| 2016      | 0         | 0      | 20,684           | 155,088 | 35        | 474                 | 20,719 | 155,562 |
| Averages  |           |        |                  |         |           |                     |        |         |
| 1996–2015 | 4         | 66     | 3,908            | 48,956  | 104       | 1,761               | 4,016  | 50,783  |
| 2006–2015 | 4         | 49     | 4,926            | 51,991  | 69        | 1,159               | 4,998  | 53,198  |
| 2011–2015 | 5         | 47     | 6,172            | 60,842  | 79        | 1,329               | 6,256  | 62,218  |

Note: No reliable escapement estimates (ND) were available for some years or streams within a year.

<sup>a</sup> Weights of home pack fish are not reported on fish tickets; therefore, they were calculated from the average weight of the commercial harvest.

Table 17.—Chignik Management Area Chinook salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1980–2016.

| Year      | District    |         |         |         |            | Total  |
|-----------|-------------|---------|---------|---------|------------|--------|
|           | Chignik Bay | Central | Eastern | Western | Perryville |        |
| 1980      | 929         | 148     | 169     | 739     | 359        | 2,344  |
| 1981      | 2,006       | 302     | 188     | 99      | 99         | 2,694  |
| 1982      | 3,269       | 41      | 38      | 1,354   | 534        | 5,236  |
| 1983      | 3,560       | 161     | 260     | 1,390   | 117        | 5,488  |
| 1984      | 3,696       | 63      | 72      | 487     | 0          | 4,318  |
| 1985      | 1,809       | 50      | 7       | 21      | 0          | 1,887  |
| 1986      | 2,592       | 58      | 14      | 350     | 23         | 3,037  |
| 1987      | 1,931       | 60      | 6       | 512     | 142        | 2,651  |
| 1988      | 4,331       | 1,094   | 190     | 1,216   | 465        | 7,296  |
| 1989      | 3,532       | 9       | 1       | 0       | 0          | 3,542  |
| 1990      | 3,719       | 2,175   | 175     | 3,190   | 642        | 9,901  |
| 1991      | 1,996       | 775     | 165     | 197     | 24         | 3,157  |
| 1992      | 3,181       | 2,010   | 181     | 4,300   | 1,160      | 10,832 |
| 1993      | 5,240       | 6,865   | 2,568   | 3,113   | 1,729      | 19,515 |
| 1994      | 1,808       | 1,303   | 43      | 452     | 313        | 3,919  |
| 1995      | 3,219       | 845     | 108     | 897     | 424        | 5,493  |
| 1996      | 1,590       | 1,022   | 263     | 162     | 108        | 3,145  |
| 1997      | 1,384       | 1,609   | 60      | 60      | 7          | 3,120  |
| 1998      | 1,805       | 1,798   | 79      | 567     | 254        | 4,503  |
| 1999      | 2,270       | 852     | 147     | 216     | 22         | 3,507  |
| 2000      | 598         | 530     | 53      | 1,421   | 10         | 2,612  |
| 2001      | 1,235       | 770     | 302     | 627     | 5          | 2,939  |
| 2002      | 920         | 17      | 0       | 584     | 0          | 1,521  |
| 2003      | 2,834       | 189     | 0       | 45      | 0          | 3,068  |
| 2004      | 2,520       | 0       | 0       | 0       | 0          | 2,520  |
| 2005      | 2,714       | 391     | 0       | 297     | 6          | 3,408  |
| 2006      | 2,009       | 165     | 3       | 79      | 0          | 2,256  |
| 2007      | 667         | 421     | 152     | 532     | 1          | 1,773  |
| 2008      | 219         | 195     | 16      | 503     | 37         | 970    |
| 2009      | 552         | 552     | 199     | 1,987   | 29         | 3,319  |
| 2010      | 1,564       | 2,420   | 834     | 5,476   | 86         | 10,380 |
| 2011      | 1,462       | 2,154   | 639     | 2,118   | 213        | 6,586  |
| 2012      | 330         | 1,878   | 185     | 1,284   | 10         | 3,687  |
| 2013      | 592         | 1,249   | 398     | 668     | 52         | 2,959  |
| 2014      | 363         | 4,302   | 75      | 4,054   | 52         | 8,846  |
| 2015      | 1,648       | 3,172   | 115     | 4,249   | 20         | 9,204  |
| 2016      | 693         | 15,865  | 413     | 2,446   | 1,302      | 20,719 |
| Averages  |             |         |         |         |            |        |
| 1996–2015 | 1,364       | 1,184   | 176     | 1,246   | 46         | 4,016  |
| 2006–2015 | 941         | 1,651   | 262     | 2,095   | 50         | 4,998  |
| 2011–2015 | 879         | 2,551   | 282     | 2,475   | 69         | 6,256  |

Table 18.—Chignik Management Area Chinook salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2016.

| Date              | Number of Permits | District    |              |              |              |              | Total |
|-------------------|-------------------|-------------|--------------|--------------|--------------|--------------|-------|
|                   |                   | Chignik Bay | Central      | Eastern      | Western      | Perryville   |       |
| 6/4               | 16                | 9           | 16           | <sup>a</sup> | Closed       | Closed       | 25    |
| 6/5               | 42                | 66          | 12           | <sup>a</sup> | Closed       | Closed       | 78    |
| 6/6               | 28                | 16          | <sup>a</sup> | <sup>a</sup> | Closed       | Closed       | 16    |
| 6/7               | 44                | 31          | 46           | 0            | Closed       | Closed       | 77    |
| 6/8               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/9               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/10              | 49                | 39          | 43           | 0            | Closed       | Closed       | 82    |
| 6/11              | 55                | 32          | 180          | 0            | Closed       | Closed       | 212   |
| 6/12              | 45                | 24          | 77           | 14           | Closed       | Closed       | 115   |
| 6/13              | 40                | 25          | 90           | 17           | Closed       | Closed       | 132   |
| 6/14              | 31                | 38          | 8            | 0            | Closed       | Closed       | 46    |
| 6/15              | 56                | 13          | 80           | <sup>a</sup> | Closed       | Closed       | 93    |
| 6/16              | 49                | 12          | 29           | 60           | <sup>a</sup> | Closed       | 101   |
| 6/17              | 55                | 26          | 73           | 76           | <sup>a</sup> | Closed       | 175   |
| 6/18              | 52                | 6           | 157          | 0            | Closed       | Closed       | 163   |
| 6/19              | 49                | 4           | 69           | 36           | Closed       | Closed       | 109   |
| 6/20              | 33                | 10          | 22           | <sup>a</sup> | Closed       | Closed       | 32    |
| 6/21              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/22 <sup>b</sup> | 1                 | 0           | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/23              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/24              | 59                | 20          | 245          | 51           | Closed       | Closed       | 316   |
| 6/25              | 50                | 5           | 79           | 56           | Closed       | Closed       | 140   |
| 6/26              | 58                | 18          | 396          | <sup>a</sup> | Closed       | Closed       | 414   |
| 6/27              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/28              | 53                | 19          | 177          | 0            | Closed       | Closed       | 196   |
| 6/29              | 45                | 1           | 87           | 0            | 181          | Closed       | 269   |
| 6/30              | 54                | 24          | 249          | <sup>a</sup> | 150          | Closed       | 423   |
| 7/1               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/2               | 45                | 18          | 277          | 0            | Closed       | Closed       | 295   |
| 7/3               | 48                | 16          | 62           | <sup>a</sup> | Closed       | Closed       | 78    |
| 7/4               | 49                | 9           | 118          | 0            | Closed       | Closed       | 127   |
| 7/5               | 55                | 11          | 123          | 0            | Closed       | Closed       | 134   |
| 7/6               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/7               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/8 <sup>b</sup>  | 1                 | 0           | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/9               | 59                | 17          | 513          | Closed       | 162          | 205          | 897   |
| 7/10              | 50                | 4           | 22           | Closed       | 44           | 39           | 109   |
| 7/11              | 51                | 9           | 1,083        | Closed       | 96           | <sup>a</sup> | 1,188 |
| 7/12              | 53                | 16          | 301          | Closed       | 102          | 53           | 472   |
| 7/13              | 30                | 1           | 52           | Closed       | 0            | 0            | 53    |
| 7/14              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/15              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/16              | 40                | 0           | 271          | Closed       | 28           | 10           | 309   |

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Table 18.–Page 2 of 2.

| Date                            | Number of Permits | District    |               |            |              |              | Total         |
|---------------------------------|-------------------|-------------|---------------|------------|--------------|--------------|---------------|
|                                 |                   | Chignik Bay | Central       | Eastern    | Western      | Perryville   |               |
| 7/17                            | 48                | 6           | 258           | Closed     | 394          | 1            | 659           |
| 7/18                            | 54                | 1           | 693           | Closed     | 257          | 42           | 993           |
| 7/19                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/20                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/21                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/22                            | 58                | 5           | 2,612         | Closed     | 281          | 603          | 3,501         |
| 7/23                            | 43                | 6           | 1,098         | Closed     | 5            | 70           | 1,179         |
| 7/24                            | 48                | 34          | 144           | Closed     | 95           | 139          | 412           |
| 7/25                            | 48                | 15          | 303           | Closed     | 446          | 97           | 861           |
| 7/26                            | 47                | 7           | 480           | Closed     | 85           | 24           | 596           |
| 7/27                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/28                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/29                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/30                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 7/31 <sup>b</sup>               | 1                 | 1           | Closed        | Closed     | Closed       | Closed       | 1             |
| 8/1                             | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 8/2                             | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 8/3                             | 56                | 4           | 889           | Closed     | 35           | Closed       | 928           |
| 8/4                             | 46                | 2           | 538           | Closed     | Closed       | Closed       | 540           |
| 8/5                             | 48                | 24          | 1,400         | Closed     | Closed       | Closed       | 1,424         |
| 8/6                             | 36                | 4           | 419           | Closed     | 32           | Closed       | 455           |
| 8/7                             | 44                |             | 466           | Closed     | <sup>a</sup> | Closed       | 466           |
| 8/8                             | 40                | 18          | 426           | Closed     | <sup>a</sup> | Closed       | 444           |
| 8/9                             | 36                | 7           | 170           | Closed     | <sup>a</sup> | Closed       | 177           |
| 8/10                            | 37                | 11          | 223           | Closed     | <sup>a</sup> | Closed       | 234           |
| 8/11                            | 34                | 2           | 50            | Closed     | <sup>a</sup> | Closed       | 52            |
| 8/12                            | 34                | 2           | 64            | Closed     | <sup>a</sup> | Closed       | 66            |
| 8/13                            | 0                 | Closed      | Closed        | Closed     | Closed       | Closed       | 0             |
| 8/14                            | 29                | 0           | 387           | Closed     | Closed       | Closed       | 387           |
| 8/15                            | 28                | 0           | 55            | Closed     | Closed       | Closed       | 55            |
| 8/16                            | 23                | 2           | 57            | Closed     | Closed       | Closed       | 59            |
| 8/17                            | 10                | 1           | <sup>a</sup>  | Closed     | Closed       | Closed       | 1             |
| 8/18                            | 16                | 0           | <sup>a</sup>  | Closed     | Closed       | Closed       | 0             |
| 8/19                            | 18                | 1           | 58            | Closed     | Closed       | Closed       | 59            |
| 8/20                            | 18                | 0           | 8             | Closed     | Closed       | Closed       | 8             |
| 8/21–8/31 <sup>a</sup>          | –                 | –           | –             | –          | –            | –            | –             |
| <b>Season Total<sup>c</sup></b> | <b>70</b>         | <b>693</b>  | <b>15,865</b> | <b>413</b> | <b>2,446</b> | <b>1,302</b> | <b>20,719</b> |

<sup>a</sup> Confidentiality requirements prevent the release of this information.

<sup>b</sup> ADF&G test fishery.

<sup>c</sup> Season total includes information not provided by individual date due to confidentiality requirements.

Table 19.—Total harvest of sockeye salmon considered by regulation to be Chignik-bound in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries, 1970–2016.

| Year | Testfish |        | Commercial catch |            | Home pack |                     | Total CMA harvest |            | Cape Igvak <sup>a</sup> |           | SEDM <sup>b</sup> |           | Total Chignik-bound |            |
|------|----------|--------|------------------|------------|-----------|---------------------|-------------------|------------|-------------------------|-----------|-------------------|-----------|---------------------|------------|
|      | Number   | Pounds | Number           | Pounds     | Number    | Pounds <sup>c</sup> | Number            | Pounds     | Number                  | Pounds    | Number            | Pounds    | Number              | Pounds     |
| 1970 | ND       | ND     | 1,325,734        | 9,210,127  | ND        | ND                  | 1,325,734         | 9,210,127  | ND                      | ND        | ND                | ND        | 1,325,734           | 9,210,127  |
| 1971 | ND       | ND     | 1,016,136        | 7,534,367  | ND        | ND                  | 1,016,136         | 7,534,367  | ND                      | ND        | ND                | ND        | 1,016,136           | 7,534,367  |
| 1972 | ND       | ND     | 378,218          | 2,863,742  | ND        | ND                  | 378,218           | 2,863,742  | ND                      | ND        | ND                | ND        | 378,218             | 2,863,742  |
| 1973 | ND       | ND     | 870,354          | 7,023,294  | ND        | ND                  | 870,354           | 7,023,294  | ND                      | ND        | ND                | ND        | 870,354             | 7,023,294  |
| 1974 | ND       | ND     | 662,905          | 4,756,653  | ND        | ND                  | 662,905           | 4,756,653  | ND                      | ND        | ND                | ND        | 662,905             | 4,756,653  |
| 1975 | ND       | ND     | 399,593          | 2,773,725  | ND        | ND                  | 399,593           | 2,773,725  | ND                      | ND        | ND                | ND        | 399,593             | 2,773,725  |
| 1976 | ND       | ND     | 1,163,728        | 8,562,989  | ND        | ND                  | 1,163,728         | 8,562,989  | ND                      | ND        | ND                | ND        | 1,163,728           | 8,562,989  |
| 1977 | ND       | ND     | 1,972,207        | 17,247,659 | ND        | ND                  | 1,972,207         | 17,247,659 | ND                      | ND        | ND                | ND        | 1,972,207           | 17,247,659 |
| 1978 | ND       | ND     | 1,576,283        | 12,451,982 | ND        | ND                  | 1,576,283         | 12,451,982 | 225,078                 | 1,583,809 | ND                | ND        | 1,801,361           | 14,035,791 |
| 1979 | ND       | ND     | 1,049,691        | 7,862,600  | ND        | ND                  | 1,049,691         | 7,862,600  | 13,950                  | 96,507    | ND                | ND        | 1,063,641           | 7,959,107  |
| 1980 | ND       | ND     | 859,966          | 5,795,098  | ND        | ND                  | 859,966           | 5,795,098  | 32                      | 147       | 63,724            | 442,601   | 923,722             | 6,237,846  |
| 1981 | ND       | ND     | 1,839,469        | 13,486,031 | ND        | ND                  | 1,839,469         | 13,486,031 | 282,727                 | 1,876,246 | 122,198           | 888,410   | 2,244,394           | 16,250,687 |
| 1982 | ND       | ND     | 1,521,686        | 11,340,439 | ND        | ND                  | 1,521,686         | 11,340,439 | 166,756                 | 1,162,053 | 62,789            | 463,729   | 1,751,231           | 12,966,221 |
| 1983 | ND       | ND     | 1,824,175        | 11,926,829 | ND        | ND                  | 1,824,175         | 11,926,829 | 318,048                 | 1,926,770 | 227,392           | 1,631,668 | 2,369,615           | 15,485,267 |
| 1984 | ND       | ND     | 2,660,619        | 18,536,287 | ND        | ND                  | 2,660,619         | 18,536,287 | 449,372                 | 2,820,646 | 423,292           | 3,053,430 | 3,533,283           | 24,410,363 |
| 1985 | 4,875    | 30,480 | 916,627          | 5,415,817  | ND        | ND                  | 921,502           | 5,446,297  | 123,627                 | 637,207   | 51,421            | 337,919   | 1,096,550           | 6,421,423  |
| 1986 | ND       | ND     | 1,645,834        | 11,254,860 | ND        | ND                  | 1,645,834         | 11,254,860 | 188,017                 | 1,153,092 | 118,006           | 841,446   | 1,951,857           | 13,249,398 |
| 1987 | 679      | 4,637  | 1,898,159        | 13,997,077 | ND        | ND                  | 1,898,838         | 14,001,714 | 321,506                 | 2,146,841 | 146,886           | 1,121,094 | 2,367,230           | 17,269,649 |
| 1988 | 3,425    | 24,287 | 792,416          | 5,690,165  | ND        | ND                  | 795,841           | 5,714,452  | 10,520                  | 63,641    | 19,320            | 140,708   | 825,681             | 5,918,801  |
| 1989 | 6,433    | 46,532 | 1,152,854        | 7,922,748  | ND        | ND                  | 1,159,287         | 7,969,280  | 0                       | 0         | 4,485             | 32,262    | 1,163,772           | 8,001,542  |
| 1990 | 5,522    | 33,915 | 2,088,128        | 13,775,854 | ND        | ND                  | 2,093,650         | 13,809,769 | 107,706                 | 665,309   | 117,065           | 783,670   | 2,318,421           | 15,258,748 |
| 1991 | 8,106    | 54,892 | 1,887,559        | 12,889,560 | ND        | ND                  | 1,895,665         | 12,944,452 | 324,195                 | 1,886,494 | 152,714           | 1,037,726 | 2,372,574           | 15,868,672 |
| 1992 | 12,423   | 80,326 | 1,265,026        | 8,292,576  | ND        | ND                  | 1,277,449         | 8,372,902  | 150,434                 | 896,108   | 93,845            | 608,765   | 1,521,728           | 9,877,775  |
| 1993 | 5,444    | 34,231 | 1,691,907        | 10,228,401 | ND        | ND                  | 1,697,351         | 10,262,632 | 300,055                 | 1,639,082 | 128,608           | 847,879   | 2,126,014           | 12,749,593 |
| 1994 | 9,139    | 54,433 | 1,609,834        | 10,091,402 | ND        | ND                  | 1,618,973         | 10,145,835 | 250,230                 | 1,423,150 | 142,350           | 934,493   | 2,011,553           | 12,503,478 |
| 1995 | 9,023    | 57,674 | 1,715,022        | 11,464,647 | 0         | 0                   | 1,724,045         | 11,522,321 | 169,530                 | 899,572   | 89,086            | 547,563   | 1,982,661           | 12,969,456 |
| 1996 | 4,317    | 36,511 | 1,954,036        | 14,866,234 | 40        | 304                 | 1,958,393         | 14,903,049 | 308,327                 | 1,954,430 | 127,201           | 884,305   | 2,393,921           | 17,741,784 |
| 1997 | 11,299   | 77,874 | 758,384          | 4,782,715  | 664       | 4,187               | 770,347           | 4,864,776  | 0                       | 0         | 0                 | 0         | 770,347             | 4,864,776  |
| 1998 | 12,374   | 66,040 | 1,041,798        | 6,372,010  | 267       | 1,633               | 1,054,439         | 6,439,683  | 8,813                   | 39,133    | 66,893            | 408,902   | 1,130,145           | 6,887,718  |
| 1999 | 5,994    | 42,216 | 3,110,507        | 20,527,837 | 26        | 172                 | 3,116,527         | 20,570,225 | 456,039                 | 2,469,213 | 173,621           | 1,086,186 | 3,746,187           | 24,125,624 |
| 2000 | 11,604   | 88,790 | 1,763,621        | 13,577,434 | 0         | 0                   | 1,775,225         | 13,666,224 | 271,344                 | 1,703,875 | 103,419           | 737,462   | 2,149,988           | 16,107,561 |

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Table 19.—Page 2 of 2.

| Year              | Testfish |        | Commercial patch |            | Home pack |                     | Total CMA parvest |            | Cape Igvak <sup>a</sup> |           | SEDM <sup>b</sup> |           | Total Chignik-Bound |            |
|-------------------|----------|--------|------------------|------------|-----------|---------------------|-------------------|------------|-------------------------|-----------|-------------------|-----------|---------------------|------------|
|                   | Number   | Pounds | Number           | Pounds     | Number    | Pounds <sup>c</sup> | Number            | Pounds     | Number                  | Pounds    | Number            | Pounds    | Number              | Pounds     |
| 2001 <sup>d</sup> | 14,011   | 98,197 | 1,497,359        | 10,972,234 | 217       | 1,590               | 1,511,587         | 11,072,021 | 215,214                 | 1,287,154 | 51,141            | 368,970   | 1,777,942           | 12,728,145 |
| 2002              | 9,101    | 61,656 | 1,040,081        | 7,176,261  | 1,371     | 9,460               | 1,050,553         | 7,247,377  | 136,488                 | 727,894   | 63,026            | 502,353   | 1,250,067           | 8,477,624  |
| 2003              | 5,582    | 36,334 | 1,092,304        | 7,137,591  | 2,411     | 15,755              | 1,100,297         | 7,189,680  | 121,887                 | 599,342   | 70,044            | 466,153   | 1,292,228           | 8,255,175  |
| 2004              | 5,919    | 38,317 | 697,043          | 4,460,437  | 1,690     | 10,998              | 704,652           | 4,509,752  | 160,665                 | 781,265   | 55,123            | 355,703   | 920,440             | 5,291,017  |
| 2005              | 7,076    | 43,988 | 1,143,693        | 7,468,609  | 1,364     | 8,702               | 1,152,133         | 7,521,299  | 274,328                 | 1,681,630 | 170,662           | 1,088,207 | 1,597,123           | 10,291,136 |
| 2006              | 6,641    | 42,420 | 895,801          | 5,804,939  | 267       | 1,625               | 902,709           | 5,848,984  | 41,834                  | 266,483   | 62,010            | 398,724   | 1,006,553           | 6,514,191  |
| 2007              | 5,152    | 38,112 | 829,110          | 5,769,736  | 285       | 1,346               | 834,547           | 5,809,194  | 52,527                  | 325,619   | 0                 | 0         | 887,074             | 6,134,813  |
| 2008              | 5,166    | 35,271 | 682,104          | 4,734,436  | 0         | 0                   | 687,270           | 4,769,707  | 0                       | 0         | 0                 | 0         | 687,270             | 4,769,707  |
| 2009              | 1,687    | 12,833 | 1,196,325        | 8,248,669  | 93        | 631                 | 1,198,105         | 8,262,133  | 126,968                 | 811,617   | 48,322            | 314,210   | 1,373,395           | 9,387,960  |
| 2010              | 6,545    | 34,237 | 1,372,267        | 8,940,207  | 973       | 6,490               | 1,379,785         | 8,980,934  | 185,193                 | 1,035,324 | 85,267            | 559,226   | 1,650,245           | 10,575,484 |
| 2011              | 6,556    | 48,184 | 2,490,125        | 17,841,056 | 323       | 1,977               | 2,497,004         | 17,891,217 | 494,538                 | 3,224,966 | 156,637           | 1,123,768 | 3,148,179           | 22,239,951 |
| 2012              | 2,089    | 15,102 | 1,797,519        | 12,247,564 | 513       | 3,564               | 1,800,121         | 12,266,230 | 324,895                 | 1,884,391 | 126,083           | 838,838   | 2,251,099           | 14,989,459 |
| 2013              | 4,970    | 35,474 | 2,399,594        | 17,070,111 | 587       | 3,928               | 2,405,151         | 17,055,904 | 354,179                 | 2,326,956 | 169,029           | 1,109,867 | 2,928,359           | 20,546,336 |
| 2014              | 3,454    | 20,637 | 616,879          | 4,120,133  | 6         | 40                  | 620,339           | 4,140,810  | 0                       | 0         | 0                 | 0         | 620,339             | 4,140,810  |
| 2015              | 12,107   | 59,336 | 1,540,310        | 8,469,717  | 78        | 459                 | 1,552,495         | 8,529,512  | 5,936                   | 31,568    | 98,473            | 559,063   | 1,656,904           | 9,120,143  |
| 2016              | 8,073    | 45,419 | 1,385,673        | 8,208,491  | 345       | 1,939               | 1,394,091         | 8,255,849  | 298,470                 | 1,674,233 | 94,790            | 559,190   | 1,787,351           | 10,489,272 |
| Averages          |          |        |                  |            |           |                     |                   |            |                         |           |                   |           |                     |            |
| 1996–2015         | 7,082    | 46,576 | 1,395,943        | 9,529,397  | 559       | 3,643               | 1,403,584         | 9,576,936  | 176,959                 | 1,057,543 | 81,348            | 540,097   | 1,661,890           | 11,159,471 |
| 2006–2015         | 5,437    | 34,161 | 1,382,003        | 9,324,657  | 313       | 2,006               | 1,387,753         | 9,355,463  | 158,607                 | 990,692   | 74,582            | 490,370   | 1,620,942           | 10,841,885 |
| 2011–2015         | 5,835    | 35,747 | 1,768,885        | 11,949,716 | 301       | 1,994               | 1,775,022         | 11,976,735 | 235,910                 | 1,493,576 | 110,044           | 726,307   | 2,120,976           | 14,207,340 |

Note: No reliable estimates (ND) were available for some years.

<sup>a</sup> The Cape Igvak allocation began in 1978. From 1978 to 2002, 80% of the Cape Igvak sockeye salmon harvest was considered Chignik River-bound. Beginning in 2002, that percentage was changed to 90%.

<sup>b</sup> Beginning in 1980, 80% of the SEDM harvest in specific areas during specific times was considered Chignik River-bound.

<sup>c</sup> Weights of home pack are not reported on fish tickets; therefore, the weights were calculated from the average weight of the commercial harvest for that year.

<sup>d</sup> Due to a strike by Alaska Peninsula fishermen, foregone harvest of 27,896 sockeye salmon harvested in 2001 was added to the SEDM catch for management purposes; this foregone harvest is not included in this table.

Table 20.—Total annual Chignik Management Area sockeye salmon harvest (including home pack and the department’s test fishery catches), by district, 1980–2016.

| Year      | District    |         |         |         |            | Total     |
|-----------|-------------|---------|---------|---------|------------|-----------|
|           | Chignik Bay | Central | Eastern | Western | Perryville |           |
| 1980      | 708,828     | 74,628  | 60,947  | 9,227   | 6,336      | 859,966   |
| 1981      | 1,355,524   | 426,159 | 36,618  | 14,751  | 6,417      | 1,839,469 |
| 1982      | 1,413,806   | 66,278  | 10,209  | 30,279  | 1,114      | 1,521,686 |
| 1983      | 1,597,059   | 123,590 | 73,824  | 25,246  | 4,456      | 1,824,175 |
| 1984      | 1,942,822   | 517,653 | 184,495 | 15,470  | 179        | 2,660,619 |
| 1985      | 811,956     | 77,314  | 18,720  | 13,175  | 337        | 921,502   |
| 1986      | 1,389,172   | 182,884 | 6,424   | 44,362  | 22,992     | 1,645,834 |
| 1987      | 1,559,757   | 255,118 | 14,498  | 56,524  | 12,941     | 1,898,838 |
| 1988      | 529,540     | 124,103 | 25,699  | 93,070  | 23,429     | 795,841   |
| 1989      | 1,156,782   | 2,473   | 32      | 0       | 0          | 1,159,287 |
| 1990      | 1,400,069   | 566,601 | 51,443  | 53,192  | 22,345     | 2,093,650 |
| 1991      | 1,487,421   | 315,570 | 59,751  | 19,766  | 13,157     | 1,895,665 |
| 1992      | 792,889     | 332,860 | 12,327  | 30,004  | 109,369    | 1,277,449 |
| 1993      | 762,730     | 557,020 | 186,364 | 54,051  | 137,186    | 1,697,351 |
| 1994      | 908,042     | 573,484 | 20,041  | 64,325  | 53,081     | 1,618,973 |
| 1995      | 1,083,707   | 415,436 | 48,842  | 79,874  | 96,186     | 1,724,045 |
| 1996      | 1,003,683   | 743,658 | 145,668 | 47,529  | 17,855     | 1,958,393 |
| 1997      | 407,427     | 295,084 | 20,650  | 44,768  | 2,418      | 770,347   |
| 1998      | 622,005     | 286,643 | 30,555  | 87,940  | 27,296     | 1,054,439 |
| 1999      | 2,356,146   | 612,589 | 79,717  | 57,859  | 10,216     | 3,116,527 |
| 2000      | 1,327,249   | 358,985 | 71,572  | 15,034  | 2,385      | 1,775,225 |
| 2001      | 1,082,291   | 382,172 | 28,377  | 17,673  | 1,074      | 1,511,587 |
| 2002      | 993,756     | 44,368  | 2,835   | 9,425   | 169        | 1,050,553 |
| 2003      | 1,000,247   | 64,440  | 1,701   | 29,069  | 4,840      | 1,100,297 |
| 2004      | 704,471     | 181     | 0       | 0       | 0          | 704,652   |
| 2005      | 1,039,076   | 84,879  | 2       | 27,927  | 249        | 1,152,133 |
| 2006      | 726,749     | 103,272 | 3,118   | 69,570  | 0          | 902,709   |
| 2007      | 545,438     | 138,922 | 29,882  | 119,489 | 816        | 834,547   |
| 2008      | 527,026     | 83,111  | 2,279   | 68,257  | 6,597      | 687,270   |
| 2009      | 869,906     | 191,611 | 29,900  | 102,803 | 3,885      | 1,198,105 |
| 2010      | 846,823     | 371,090 | 102,587 | 56,736  | 2,549      | 1,379,785 |
| 2011      | 1,649,846   | 670,348 | 113,760 | 40,252  | 22,798     | 2,497,004 |
| 2012      | 1,122,595   | 522,184 | 61,922  | 93,270  | 150        | 1,800,121 |
| 2013      | 1,607,269   | 584,848 | 150,560 | 56,248  | 6,226      | 2,405,151 |
| 2014      | 208,056     | 100,375 | 86      | 302,614 | 9,208      | 620,339   |
| 2015      | 702,707     | 364,934 | 5,542   | 433,221 | 46,091     | 1,552,495 |
| 2016      | 741,932     | 328,749 | 38,629  | 204,058 | 80,723     | 1,394,091 |
| Averages  |             |         |         |         |            |           |
| 1996–2015 | 967,138     | 300,185 | 44,036  | 83,984  | 8,241      | 1,403,584 |
| 2006–2015 | 880,642     | 313,070 | 49,964  | 134,246 | 9,832      | 1,387,753 |
| 2011–2015 | 1,058,095   | 448,538 | 66,374  | 185,121 | 16,895     | 1,775,022 |

Table 21.—Chignik Management Area sockeye salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2016.

| Date              | Number of permits | District    |              |              |              |              | Total        |
|-------------------|-------------------|-------------|--------------|--------------|--------------|--------------|--------------|
|                   |                   | Chignik Bay | Central      | Eastern      | Western      | Perryville   |              |
| 6/4               | 15                | 1,011       | 958          | <sup>a</sup> | Closed       | Closed       | 1,969        |
| 6/5               | 41                | 6,082       | 2,063        | <sup>a</sup> | Closed       | Closed       | 8,145        |
| 6/6               | 27                | 6,004       | <sup>a</sup> | 0            | Closed       | Closed       | 6,004        |
| 6/7               | 43                | 6,989       | 3,545        | 0            | Closed       | Closed       | 10,534       |
| 6/8               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 6/9               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 6/10              | 49                | 23,361      | 6,406        | 0            | Closed       | Closed       | 29,767       |
| 6/11              | 53                | 17,401      | 9,146        | <sup>a</sup> | Closed       | Closed       | 26,547       |
| 6/12              | 44                | 12,527      | 6,610        | 2,236        | Closed       | Closed       | 21,373       |
| 6/13              | 38                | 15,042      | 5,467        | 5,272        | Closed       | Closed       | 25,781       |
| 6/14              | 30                | 12,184      | 3,653        | 0            | Closed       | Closed       | 15,837       |
| 6/15              | 54                | 28,987      | 15,745       | <sup>a</sup> | Closed       | Closed       | 44,732       |
| 6/16              | 47                | 22,527      | 10,267       | 4,089        | <sup>a</sup> | Closed       | 36,883       |
| 6/17              | 54                | 21,570      | 17,686       | 9,595        | 0            | Closed       | 48,851       |
| 6/18              | 51                | 20,432      | 20,004       | 0            | Closed       | Closed       | 40,436       |
| 6/19              | 48                | 25,944      | 11,426       | 4,786        | Closed       | Closed       | 42,156       |
| 6/20              | 32                | 14,627      | 1,933        | <sup>a</sup> | Closed       | Closed       | 16,560       |
| 6/21              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 6/22 <sup>b</sup> | 1                 | 5,218       | Closed       | Closed       | Closed       | Closed       | 5,218        |
| 6/23              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 6/24              | 58                | 38,426      | 9,029        | 4,475        | Closed       | Closed       | 51,930       |
| 6/25              | 49                | 30,788      | 4,924        | 509          | Closed       | Closed       | 36,221       |
| 6/26              | 57                | 25,069      | 8,348        | <sup>a</sup> | Closed       | Closed       | 33,417       |
| 6/27              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 6/28              | 52                | 23,535      | 7,406        | 0            | Closed       | Closed       | 30,941       |
| 6/29              | 43                | 17,567      | 4,095        | 0            | 7,499        | Closed       | 29,161       |
| 6/30              | 53                | 18,787      | 7,535        | <sup>a</sup> | 10,313       | Closed       | 36,635       |
| 7/1               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 7/2               | 44                | 11,887      | 12,714       | 0            | Closed       | Closed       | 24,601       |
| 7/3               | 47                | 24,120      | 3,504        | <sup>a</sup> | Closed       | Closed       | 27,624       |
| 7/4               | 49                | 21,144      | 7,584        | 0            | Closed       | Closed       | 28,728       |
| 7/5               | 55                | 16,094      | 6,882        | 0            | Closed       | Closed       | 22,976       |
| 7/6               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 7/7               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0            |
| 7/8 <sup>b</sup>  | 1                 | 1,869       | Closed       | Closed       | Closed       | Closed       | 1,869        |
| 7/9               | 58                | 27,234      | 9,075        | Closed       | 15,319       | 8,460        | 60,088       |
| 7/10              | 50                | 15,303      | 2,116        | Closed       | 10,907       | 4,801        | 33,127       |
| 7/11              | 51                | 12,969      | 6,693        | Closed       | 14,072       | <sup>a</sup> | 33,734       |
| 7/12              | 53                | 14,174      | 5,501        | Closed       | 25,273       | 8,086        | 53,034       |
| 7/13              | 30                | 5,238       | 4,366        | Closed       | <sup>a</sup> | 0            | 9,604        |
| 7/14              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | <sup>a</sup> |
| 7/15              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | <sup>a</sup> |
| 7/16              | 40                | 7,420       | 4,115        | Closed       | 13,112       | 12,428       | 37,075       |

-continued-



Table 21.–Page 2 of 2.

| Date                      | Number of Permits | District    |              |         |              |            | Total     |
|---------------------------|-------------------|-------------|--------------|---------|--------------|------------|-----------|
|                           |                   | Chignik Bay | Central      | Eastern | Western      | Perryville |           |
| 7/17                      | 48                | 15,224      | 7,150        | Closed  | 36,431       | 2,608      | 61,413    |
| 7/18                      | 54                | 11,587      | 5,367        | Closed  | 20,557       | 2,362      | 39,873    |
| 7/19                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/20                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/21                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/22                      | 58                | 16,747      | 10,095       | Closed  | 10,329       | 10,519     | 47,690    |
| 7/23                      | 43                | 13,939      | 1,189        | Closed  | 321          | 5,991      | 21,440    |
| 7/24                      | 48                | 13,222      | 4,210        | Closed  | 3,499        | 9,638      | 30,569    |
| 7/25                      | 48                | 9,926       | 5,951        | Closed  | 9,367        | 4,319      | 29,563    |
| 7/26                      | 47                | 5,431       | 8,282        | Closed  | 24,698       | 7,886      | 46,297    |
| 7/27                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/28                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/29                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/30                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 7/31 <sup>b</sup>         | 1                 | 988         | Closed       | Closed  | Closed       | Closed     | 988       |
| 8/1                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 8/2                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 8/3                       | 56                | 9,291       | 14,015       | Closed  | 351          | Closed     | 23,657    |
| 8/4                       | 46                | 8,356       | 4,881        | Closed  | 199          | Closed     | 13,436    |
| 8/5                       | 48                | 4,953       | 6,820        | Closed  | Closed       | Closed     | 11,773    |
| 8/6                       | 36                | 3,963       | 2,497        | Closed  | 418          | Closed     | 6,878     |
| 8/7                       | 44                | 3,852       | 7,414        | Closed  | <sup>a</sup> | Closed     | 11,266    |
| 8/8                       | 40                | 3,448       | 5,212        | Closed  | <sup>a</sup> | Closed     | 8,660     |
| 8/9                       | 36                | 4,755       | 4,494        | Closed  | <sup>a</sup> | Closed     | 9,249     |
| 8/10                      | 37                | 3,544       | 6,624        | Closed  | <sup>a</sup> | Closed     | 10,168    |
| 8/11                      | 34                | 3,974       | 5,052        | Closed  | <sup>a</sup> | Closed     | 9,026     |
| 8/12                      | 34                | 3,193       | 3,918        | Closed  | <sup>a</sup> | Closed     | 7,111     |
| 8/13                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0         |
| 8/14                      | 29                | 1,854       | 2,910        | Closed  | Closed       | Closed     | 4,764     |
| 8/15                      | 28                | 3,790       | 279          | Closed  | Closed       | Closed     | 4,069     |
| 8/16                      | 23                | 3,035       | 1,063        | Closed  | Closed       | Closed     | 4,098     |
| 8/17                      | 10                | 1,653       | <sup>a</sup> | Closed  | Closed       | Closed     | 1,653     |
| 8/18                      | 16                | 2,712       | <sup>a</sup> | Closed  | Closed       | Closed     | 2,712     |
| 8/19                      | 18                | 1,144       | 909          | Closed  | Closed       | Closed     | 2,053     |
| 8/20                      | 18                | 4,118       | 256          | Closed  | Closed       | Closed     | 4,374     |
| 8/21–8/31 <sup>a</sup>    | –                 | –           | –            | –       | –            | –          | –         |
| Season Total <sup>c</sup> | 70                | 741,932     | 328,749      | 38,629  | 204,058      | 80,723     | 1,394,091 |

<sup>a</sup> Confidentiality requirements prevent the release of this information.

<sup>b</sup> ADF&G test fishery.

<sup>c</sup> Season total includes information not provided by individual date due to confidentiality requirements.

Table 22.—Harvest of sockeye salmon considered by regulation to be Chignik-bound in the Chignik, Cape Igvak, and Southeastern District Mainland (SEDM) commercial salmon fisheries from June 1 through July 25, 1978–2016.

| Year              | Chignik <sup>a</sup> |         | Cape Igvak <sup>a</sup> |         | SEDM <sup>a</sup>  |         | Total     |
|-------------------|----------------------|---------|-------------------------|---------|--------------------|---------|-----------|
|                   | Catch                | Percent | Catch <sup>b</sup>      | Percent | Catch <sup>c</sup> | Percent |           |
| 1978              | 1,454,389            | 86.6    | 225,078                 | 13.4    | ND                 | ND      | 1,679,467 |
| 1979              | 794,504              | 98.3    | 13,950                  | 1.7     | ND                 | ND      | 808,454   |
| 1980              | 670,001              | 91.3    | 32                      | 0.0     | 63,724             | 8.7     | 733,757   |
| 1981              | 1,606,300            | 79.9    | 282,727                 | 14.1    | 122,198            | 6.1     | 2,011,225 |
| 1982              | 1,250,768            | 84.5    | 166,756                 | 11.3    | 62,789             | 4.2     | 1,480,313 |
| 1983              | 1,450,832            | 72.7    | 318,048                 | 15.9    | 227,392            | 11.4    | 1,996,272 |
| 1984              | 2,474,405            | 73.9    | 449,372                 | 13.4    | 423,292            | 12.6    | 3,347,069 |
| 1985              | 690,698              | 79.8    | 123,627                 | 14.3    | 51,421             | 5.9     | 865,746   |
| 1986              | 1,456,729            | 82.6    | 188,017                 | 10.7    | 118,006            | 6.7     | 1,762,752 |
| 1987              | 1,659,236            | 78.0    | 321,506                 | 15.1    | 146,886            | 6.9     | 2,127,628 |
| 1988              | 675,487              | 95.8    | 10,520                  | 1.5     | 19,320             | 2.7     | 705,327   |
| 1989              | 496,044              | 99.1    | 0                       | 0.0     | 4,485              | 0.9     | 500,529   |
| 1990              | 1,205,575            | 84.3    | 107,706                 | 7.5     | 117,065            | 8.2     | 1,430,346 |
| 1991 <sup>d</sup> | 1,962,583            | 80.5    | 324,195                 | 13.3    | 152,714            | 6.3     | 2,439,492 |
| 1992              | 1,054,309            | 81.2    | 150,434                 | 11.6    | 93,845             | 7.2     | 1,298,588 |
| 1993              | 1,495,098            | 77.7    | 300,055                 | 15.6    | 128,608            | 6.7     | 1,923,761 |
| 1994 <sup>e</sup> | 1,632,435            | 80.6    | 250,230                 | 12.4    | 142,350            | 7.0     | 2,025,015 |
| 1995              | 1,024,785            | 79.8    | 169,530                 | 13.2    | 89,086             | 6.9     | 1,283,401 |
| 1996              | 1,710,249            | 79.7    | 308,327                 | 14.4    | 127,201            | 5.9     | 2,145,777 |
| 1997              | 443,892              | 100.0   | 0                       | 0.0     | 0                  | 0.0     | 443,892   |
| 1998 <sup>f</sup> | 786,466              | 91.2    | 8,813                   | 1.0     | 66,893             | 7.8     | 862,172   |
| 1999              | 2,326,811            | 78.7    | 456,039                 | 15.4    | 173,621            | 5.9     | 2,956,471 |
| 2000              | 1,509,652            | 80.1    | 271,344                 | 14.4    | 103,419            | 5.5     | 1,884,415 |
| 2001 <sup>g</sup> | 1,134,991            | 79.4    | 215,214                 | 15.1    | 79,037             | 5.5     | 1,429,242 |
| 2002              | 849,980              | 81.0    | 136,488                 | 13.0    | 63,026             | 6.0     | 1,049,494 |
| 2003              | 855,179              | 81.7    | 121,887                 | 11.6    | 70,044             | 6.7     | 1,047,110 |
| 2004              | 681,120              | 75.9    | 160,665                 | 17.9    | 55,123             | 6.1     | 896,908   |
| 2005              | 1,098,718            | 70.8    | 274,328                 | 17.7    | 177,906            | 11.5    | 1,550,952 |
| 2006              | 741,887              | 87.7    | 41,834                  | 4.9     | 62,010             | 7.3     | 845,731   |
| 2007              | 601,213              | 92.0    | 52,527                  | 8.0     | 0                  | 0.0     | 653,740   |
| 2008              | 445,199              | 100.0   | 0                       | 0.0     | 0                  | 0.0     | 445,199   |
| 2009              | 871,890              | 83.3    | 126,968                 | 12.1    | 48,322             | 5.5     | 1,047,180 |
| 2010              | 1,125,135            | 80.6    | 185,193                 | 13.3    | 85,267             | 7.6     | 1,395,595 |

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| Year                  | Chignik <sup>a</sup> |         | Cape Igvak <sup>a</sup> |         | SEDM <sup>a</sup>  |         | Total     |
|-----------------------|----------------------|---------|-------------------------|---------|--------------------|---------|-----------|
|                       | Catch                | Percent | Catch <sup>b</sup>      | Percent | Catch <sup>c</sup> | Percent |           |
| 2011                  | 2,277,681            | 77.8    | 494,538                 | 16.9    | 156,637            | 6.9     | 2,928,856 |
| 2012                  | 1,640,517            | 78.4    | 324,895                 | 15.5    | 126,083            | 7.7     | 2,091,495 |
| 2013                  | 2,246,339            | 81.1    | 354,179                 | 12.8    | 169,029            | 7.5     | 2,769,547 |
| 2014                  | 330,302              | 100.0   | 0                       | 0.0     | 0                  | 0.0     | 330,302   |
| 2015                  | 1,014,550            | 90.7    | 5,936                   | 0.5     | 98,473             | 9.7     | 1,118,959 |
| 2016                  | 1,167,326            | 74.8    | 298,470                 | 19.1    | 94,790             | 8.1     | 1,560,586 |
| Averages <sup>h</sup> |                      |         |                         |         |                    |         |           |
| 1996–2015             | 1,263,081            | 81.8    | 208,187                 | 12.0    | 103,881            | 7.1     | 1,569,038 |
| 2006–2015             | 1,314,902            | 84.0    | 198,259                 | 10.5    | 106,546            | 7.5     | 1,606,388 |
| 2011–2015             | 1,794,772            | 82.0    | 294,887                 | 11.4    | 137,556            | 8.0     | 2,227,214 |

<sup>a</sup> Through 2001, the Cape Igvak and Southeastern District Mainland figures represent 80% of the total sockeye salmon catch for those areas through July 25, based on the regulations in effect during those years. In 2002 the Alaska Board of Fisheries increased the percentage of sockeye salmon harvest considered Chignik-bound from 80% to 90% in the Cape Igvak fishery. The figures reported in this table are the portion of the catches considered Chignik-bound. These figures do not include Chignik test fishery harvests or fish retained for home pack as they are not included in the allocation scheme.

<sup>b</sup> Beginning in 1978 the *Cape Igvak Salmon Management Plan* allocated up to 15% of the total catch of Chignik-bound sockeye salmon to the Cape Igvak fishery.

<sup>c</sup> Beginning in 1985 the Southeastern District Mainland was allowed an allocation of 6.2% of the total harvest of Chignik-bound sockeye salmon through July 25. Certain areas (which changed frequently) were excluded from the allocation and managed for local (Orzinski Lake) stocks (see regulations from the individual years). After July 25 the entire Southeast District Mainland was managed based on local stock abundance. The allocation level changed to 6.0% beginning in 1988. Beginning in 1992, the allocation of Chignik-bound sockeye to the Southeastern District Mainland fishery was increased to 7.0%. Prior to the 1996 season, the Alaska Board of Fisheries decreased the allocation from 7.0% to 6.0%. The allocation was increased from 6.0% to 7.6% prior to the 2007 season.

<sup>d</sup> Includes a foregone harvest of 278,305 sockeye salmon during a Chignik area strike (June 23–July 4).

<sup>e</sup> Includes a foregone harvest of 208,921 sockeye salmon during a Chignik area strike (June 2–June 25).

<sup>f</sup> Includes a foregone harvest of 52,131 sockeye salmon during a Chignik area strike (June 16–June 29).

<sup>g</sup> Includes a foregone harvest of 389,887 sockeye salmon in Chignik during a Chignik area strike (June 16–29), and foregone harvest of 27,896 sockeye salmon in the SEDM during a strike on the South Peninsula (June 14–July 2).

<sup>h</sup> Recent averages (excluding Chignik catch) do not include years in which the Cape Igvak and SEDM remained closed.

Table 23.—Chignik sockeye salmon escapement, total harvest considered Chignik-bound, and total run, 1970–2016.

| Year | Early run |           |           | Late run |           |           | Total run <sup>a,b,c</sup> |           |           |
|------|-----------|-----------|-----------|----------|-----------|-----------|----------------------------|-----------|-----------|
|      | Esc.      | Harvest   | Run       | Esc.     | Harvest   | Run       | Esc.                       | Harvest   | Run       |
| 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   | 610,488   | 1,143,535 | 249,144  | 355,195   | 604,339   | 782,191                    | 965,683   | 1,747,874 |
| 1974 | 351,701   | 204,722   | 556,423   | 326,245  | 648,283   | 974,528   | 677,946                    | 853,005   | 1,530,951 |
| 1975 | 308,914   | 7,873     | 316,787   | 268,734  | 417,560   | 686,294   | 577,648                    | 425,433   | 1,003,081 |
| 1976 | 551,254   | 599,341   | 1,150,595 | 279,509  | 727,043   | 1,006,552 | 830,763                    | 1,326,384 | 2,157,147 |
| 1977 | 482,247   | 534,198   | 1,016,445 | 251,753  | 1,602,363 | 1,854,116 | 734,000                    | 2,136,561 | 2,870,561 |
| 1978 | 458,660   | 940,188   | 1,398,848 | 223,887  | 885,173   | 1,109,060 | 682,547                    | 1,825,361 | 2,507,908 |
| 1979 | 385,694   | 186,537   | 572,231   | 352,122  | 933,788   | 1,285,910 | 737,816                    | 1,120,325 | 1,858,141 |
| 1980 | 311,332   | 73,742    | 385,074   | 352,729  | 849,980   | 1,202,709 | 664,061                    | 923,722   | 1,587,783 |
| 1981 | 438,540   | 800,364   | 1,238,904 | 392,909  | 1,444,030 | 1,836,939 | 831,449                    | 2,244,394 | 3,075,843 |
| 1982 | 616,117   | 1,324,396 | 1,940,513 | 221,601  | 426,835   | 648,436   | 837,718                    | 1,751,231 | 2,588,949 |
| 1983 | 426,177   | 1,128,246 | 1,554,423 | 409,458  | 1,241,369 | 1,650,827 | 835,635                    | 2,369,615 | 3,205,250 |
| 1984 | 597,712   | 2,919,984 | 3,517,696 | 267,862  | 613,299   | 881,161   | 865,574                    | 3,533,283 | 4,398,857 |
| 1985 | 376,576   | 654,431   | 1,031,007 | 369,262  | 442,119   | 811,381   | 745,838                    | 1,096,550 | 1,842,388 |
| 1986 | 566,088   | 1,364,295 | 1,930,383 | 207,231  | 587,562   | 794,793   | 773,319                    | 1,951,857 | 2,725,176 |
| 1987 | 589,291   | 1,947,088 | 2,536,379 | 214,452  | 420,142   | 634,594   | 803,743                    | 2,367,230 | 3,170,973 |
| 1988 | 420,577   | 271,377   | 691,954   | 255,180  | 554,304   | 809,484   | 675,757                    | 825,681   | 1,501,438 |
| 1989 | 384,004   | 234,237   | 618,241   | 557,171  | 929,535   | 1,486,706 | 941,175                    | 1,163,772 | 2,104,947 |
| 1990 | 434,543   | 582,520   | 1,017,063 | 335,867  | 1,735,901 | 2,071,768 | 770,410                    | 2,318,421 | 3,088,831 |
| 1991 | 657,511   | 1,711,549 | 2,384,420 | 382,587  | 661,025   | 1,028,252 | 1,040,098                  | 2,372,574 | 3,412,672 |
| 1992 | 360,681   | 744,417   | 1,105,098 | 405,922  | 777,311   | 1,183,233 | 766,603                    | 1,521,728 | 2,288,331 |
| 1993 | 364,261   | 926,892   | 1,291,153 | 333,116  | 1,199,122 | 1,532,238 | 697,377                    | 2,126,014 | 2,823,391 |
| 1994 | 769,462   | 1,595,176 | 2,364,638 | 197,447  | 416,377   | 613,824   | 966,909                    | 2,011,553 | 2,978,462 |
| 1995 | 366,163   | 666,799   | 1,032,962 | 373,757  | 1,315,862 | 1,689,619 | 739,920                    | 1,982,661 | 2,722,581 |
| 1996 | 464,461   | 1,688,264 | 2,152,725 | 284,676  | 705,657   | 990,333   | 749,137                    | 2,393,921 | 3,143,058 |
| 1997 | 396,667   | 234,824   | 631,491   | 378,951  | 535,523   | 914,474   | 775,618                    | 770,347   | 1,545,965 |
| 1998 | 410,659   | 313,158   | 723,817   | 290,469  | 816,987   | 1,107,456 | 701,128                    | 1,130,145 | 1,831,273 |
| 1999 | 457,429   | 2,022,272 | 2,479,701 | 258,537  | 1,723,915 | 1,982,452 | 715,966                    | 3,746,187 | 4,462,153 |
| 2000 | 536,141   | 1,574,391 | 2,110,532 | 269,084  | 575,597   | 844,681   | 805,225                    | 2,149,988 | 2,955,213 |
| 2001 | 744,013   | 563,539   | 1,307,552 | 392,905  | 1,214,403 | 1,607,308 | 1,136,918                  | 1,777,942 | 2,914,860 |
| 2002 | 380,701   | 684,728   | 1,065,428 | 343,616  | 565,339   | 908,955   | 724,317                    | 1,250,067 | 1,974,383 |
| 2003 | 350,004   | 640,084   | 990,088   | 334,119  | 652,144   | 986,263   | 684,123                    | 1,292,228 | 1,976,351 |
| 2004 | 363,800   | 727,975   | 1,091,775 | 214,459  | 192,465   | 406,924   | 578,259                    | 920,440   | 1,498,700 |
| 2005 | 355,091   | 1,109,881 | 1,464,972 | 225,366  | 487,242   | 712,608   | 580,457                    | 1,597,123 | 2,177,580 |
| 2006 | 366,497   | 436,028   | 802,525   | 368,996  | 570,525   | 939,521   | 735,493                    | 1,006,553 | 1,742,046 |
| 2007 | 361,091   | 267,805   | 628,896   | 293,883  | 619,269   | 913,152   | 654,974                    | 887,074   | 1,542,048 |
| 2008 | 377,579   | 253,490   | 631,069   | 328,479  | 433,780   | 762,259   | 706,058                    | 687,270   | 1,393,328 |
| 2009 | 391,476   | 520,630   | 912,106   | 328,586  | 852,765   | 1,181,351 | 720,062                    | 1,373,395 | 2,093,457 |
| 2010 | 432,535   | 833,713   | 1,266,248 | 311,291  | 816,532   | 1,127,823 | 743,826                    | 1,650,245 | 2,394,071 |

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Table 23.–Page 2 of 2.

| Year              | Early Run |           |           | Late Run |           |           | Total Run <sup>a,b,c</sup> |           |           |
|-------------------|-----------|-----------|-----------|----------|-----------|-----------|----------------------------|-----------|-----------|
|                   | Esc.      | Harvest   | Run       | Esc.     | Harvest   | Run       | Esc.                       | Harvest   | Run       |
| 2011              | 488,930   | 2,594,291 | 3,083,221 | 264,887  | 553,888   | 818,775   | 753,817                    | 3,148,179 | 3,901,996 |
| 2012              | 353,441   | 1,283,858 | 1,637,299 | 358,948  | 967,241   | 1,326,189 | 712,389                    | 2,251,099 | 2,963,488 |
| 2013              | 386,782   | 2,030,579 | 2,417,361 | 369,319  | 890,695   | 1,260,014 | 756,101                    | 2,921,274 | 3,677,375 |
| 2014 <sup>d</sup> | 360,381   | 49,753    | 410,134   | 291,228  | 570,586   | 861,814   | 651,609                    | 620,339   | 1,271,948 |
| 2015              | 534,088   | 627,827   | 1,161,915 | 589,810  | 1,029,077 | 1,618,887 | 1,123,898                  | 1,656,904 | 2,780,802 |
| 2016              | 418,290   | 968,018   | 1,386,308 | 354,884  | 819,333   | 1,174,217 | 773,174                    | 1,787,351 | 2,560,525 |
| Averages          |           |           |           |          |           |           |                            |           |           |
| 1996–2015         | 425,588   | 922,855   | 1,348,443 | 324,880  | 738,682   | 1,063,562 | 750,469                    | 1,661,536 | 2,412,005 |
| 2006–2015         | 405,280   | 889,797   | 1,295,077 | 350,543  | 730,436   | 1,080,979 | 755,823                    | 1,620,233 | 2,376,056 |
| 2011–2015         | 424,724   | 1,317,262 | 1,741,986 | 374,838  | 802,297   | 1,177,136 | 799,563                    | 2,119,559 | 2,919,122 |

<sup>a</sup> Includes Cape Igvak and SEDM harvests considered Chignik-bound as defined in regulation. However, portions of the harvests from Cape Igvak and SEDM from 1970 to 1979 were not considered Chignik-bound by regulation, but were included in this table for comparison purposes.

<sup>b</sup> Does not include subsistence-caught fish.

<sup>c</sup> Includes harvests from the Chignik Lagoon test fishery and fish retained for home pack.

<sup>d</sup> Beginning in 2014, information from in-season genetic samples taken from the escapement at Chignik weir were used to determine the apportionment of the 2 runs during late June and mid-July for escapement and harvest instead of using the traditional July 4 cutoff date.

Table 24.—Chignik sockeye salmon forecasts and actual runs, by run and year, 1994–2016, in millions of fish.

| Year      | Early run |        |            | Late run |        |            | Total run |        |            |
|-----------|-----------|--------|------------|----------|--------|------------|-----------|--------|------------|
|           | Forecast  | Actual | Difference | Forecast | Actual | Difference | Forecast  | Actual | Difference |
| 1994      | 1.80      | 2.36   | 0.56       | 1.30     | 0.61   | -0.69      | 3.10      | 2.98   | -0.12      |
| 1995      | 1.90      | 1.03   | -0.87      | 0.90     | 1.69   | 0.79       | 2.80      | 2.72   | -0.08      |
| 1996      | 1.40      | 2.15   | 0.75       | 1.60     | 0.99   | -0.61      | 3.00      | 3.14   | 0.14       |
| 1997      | 1.00      | 0.63   | -0.37      | 1.60     | 0.91   | -0.69      | 2.60      | 1.55   | -1.05      |
| 1998      | 0.90      | 0.72   | -0.18      | 1.10     | 1.11   | 0.01       | 2.00      | 1.83   | -0.17      |
| 1999      | 1.05      | 2.48   | 1.43       | 1.29     | 1.98   | 0.69       | 2.34      | 4.46   | 2.12       |
| 2000      | 3.90      | 2.11   | -1.79      | 1.09     | 0.84   | -0.25      | 4.99      | 2.96   | -2.03      |
| 2001      | 1.00      | 1.31   | 0.31       | 0.91     | 1.61   | 0.70       | 1.91      | 2.91   | 1.00       |
| 2002      | 1.03      | 1.06   | 0.03       | 1.09     | 0.91   | -0.18      | 2.12      | 1.97   | -0.15      |
| 2003      | 1.64      | 0.99   | -0.65      | 1.19     | 1.00   | -0.19      | 2.83      | 1.99   | -0.84      |
| 2004      | 1.26      | 1.09   | -0.17      | 1.08     | 0.41   | -0.67      | 2.34      | 1.50   | -0.84      |
| 2005      | 1.84      | 1.46   | -0.38      | 0.55     | 0.71   | 0.16       | 2.39      | 2.17   | -0.22      |
| 2006      | 1.21      | 0.78   | -0.43      | 0.28     | 0.96   | 0.68       | 1.49      | 1.74   | 0.25       |
| 2007      | 1.02      | 0.60   | -0.42      | 0.90     | 0.95   | 0.05       | 1.92      | 1.55   | -0.37      |
| 2008      | 1.07      | 0.60   | -0.47      | 0.65     | 0.79   | 0.14       | 1.72      | 1.39   | -0.33      |
| 2009      | 0.85      | 0.87   | 0.02       | 0.54     | 1.23   | 0.69       | 1.39      | 2.10   | 0.71       |
| 2010      | 1.08      | 1.20   | 0.12       | 1.11     | 1.19   | 0.08       | 2.19      | 2.39   | 0.20       |
| 2011      | 1.30      | 3.08   | 1.78       | 1.02     | 0.82   | -0.20      | 2.32      | 3.90   | 1.58       |
| 2012      | 1.08      | 1.64   | 0.56       | 1.20     | 1.33   | 0.13       | 2.28      | 2.96   | 0.68       |
| 2013      | 2.77      | 2.42   | -0.35      | 1.05     | 1.26   | 0.21       | 3.82      | 3.68   | -0.14      |
| 2014      | 0.79      | 0.41   | -0.38      | 0.91     | 0.86   | -0.05      | 1.70      | 1.27   | -0.43      |
| 2015      | 1.32      | 1.16   | -0.16      | 1.22     | 1.62   | 0.40       | 2.54      | 2.78   | 0.24       |
| 2016      | 1.80      | 1.39   | -0.41      | 1.11     | 1.17   | 0.06       | 2.91      | 2.56   | -0.35      |
| Averages  |           |        |            |          |        |            |           |        |            |
| 2006–2015 | 1.25      | 1.28   | 0.03       | 0.89     | 1.10   | 0.21       | 2.14      | 2.38   | 0.24       |
| 2011–2015 | 1.45      | 1.74   | 0.29       | 1.08     | 1.18   | 0.10       | 2.53      | 2.92   | 0.39       |

Table 25.—Chignik Management Area coho salmon harvest, by year, 1980–2016.

| Year      | Test fish |        | Commercial catch |           | Home pack |                     | Total   |           |
|-----------|-----------|--------|------------------|-----------|-----------|---------------------|---------|-----------|
|           | Number    | Pounds | Number           | Pounds    | Number    | Pounds <sup>a</sup> | Number  | Pounds    |
| 1980      | ND        | ND     | 119,573          | 771,392   | ND        | ND                  | 119,573 | 771,392   |
| 1981      | ND        | ND     | 78,805           | 602,603   | ND        | ND                  | 78,805  | 602,603   |
| 1982      | ND        | ND     | 300,273          | 2,373,268 | ND        | ND                  | 300,273 | 2,373,268 |
| 1983      | ND        | ND     | 61,927           | 488,203   | ND        | ND                  | 61,927  | 488,203   |
| 1984      | ND        | ND     | 110,128          | 949,965   | ND        | ND                  | 110,128 | 949,965   |
| 1985      | 0         | 0      | 191,162          | 1,709,637 | ND        | ND                  | 191,162 | 1,709,637 |
| 1986      | ND        | ND     | 116,633          | 867,195   | ND        | ND                  | 116,633 | 867,195   |
| 1987      | 0         | 0      | 150,414          | 1,189,803 | ND        | ND                  | 150,414 | 1,189,803 |
| 1988      | 0         | 0      | 370,420          | 2,889,427 | ND        | ND                  | 370,420 | 2,889,427 |
| 1989      | 0         | 0      | 68,233           | 559,140   | ND        | ND                  | 68,233  | 559,140   |
| 1990      | 0         | 0      | 130,131          | 933,745   | ND        | ND                  | 130,131 | 933,745   |
| 1991      | 42        | 253    | 165,583          | 1,182,704 | ND        | ND                  | 165,625 | 1,182,957 |
| 1992      | 1         | 8      | 310,942          | 2,362,683 | ND        | ND                  | 310,943 | 2,362,691 |
| 1993      | 356       | 2,024  | 229,103          | 1,459,220 | ND        | ND                  | 229,459 | 1,461,244 |
| 1994      | 103       | 506    | 237,101          | 1,996,320 | ND        | ND                  | 237,204 | 1,996,826 |
| 1995      | 0         | 0      | 280,605          | 2,062,086 | 913       | 6,709               | 281,518 | 2,068,795 |
| 1996      | 0         | 0      | 193,226          | 1,485,947 | 20        | 154                 | 193,246 | 1,486,101 |
| 1997      | 0         | 0      | 90,908           | 756,509   | 0         | 0                   | 90,908  | 756,509   |
| 1998      | 0         | 0      | 129,512          | 1,045,823 | 27        | 218                 | 129,539 | 1,046,041 |
| 1999      | 0         | 0      | 89,410           | 617,320   | 200       | 1,381               | 89,610  | 618,701   |
| 2000      | 0         | 0      | 123,222          | 943,536   | 0         | 0                   | 123,222 | 943,536   |
| 2001      | 0         | 0      | 131,441          | 1,012,153 | 7         | 54                  | 131,448 | 1,012,207 |
| 2002      | 0         | 0      | 49,208           | 360,781   | 164       | 1,202               | 49,372  | 361,983   |
| 2003      | 44        | 287    | 103,778          | 857,097   | 74        | 611                 | 103,896 | 857,995   |
| 2004      | 0         | 0      | 37               | 283       | 0         | 0                   | 37      | 283       |
| 2005      | 0         | 0      | 6,951            | 46,970    | 5         | 30                  | 6,956   | 47,000    |
| 2006      | 0         | 0      | 39,046           | 290,720   | 175       | 1,312               | 39,221  | 292,032   |
| 2007      | 0         | 0      | 73,221           | 543,761   | 56        | 416                 | 73,277  | 544,177   |
| 2008      | 0         | 0      | 161,536          | 1,290,277 | 0         | 0                   | 161,536 | 1,290,277 |
| 2009      | 0         | 0      | 110,373          | 732,346   | 0         | 0                   | 110,373 | 732,346   |
| 2010      | 0         | 0      | 159,198          | 1,137,878 | 0         | 0                   | 159,198 | 1,137,878 |
| 2011      | 0         | 0      | 76,776           | 519,422   | 16        | 147                 | 76,792  | 519,569   |
| 2012      | 0         | 0      | 33,316           | 225,799   | 0         | 0                   | 33,316  | 225,799   |
| 2013      | 0         | 0      | 32,284           | 226,235   | 28        | 277                 | 32,312  | 226,512   |
| 2014      | 0         | 0      | 132,459          | 1,091,310 | 0         | 0                   | 132,459 | 1,091,310 |
| 2015      | 0         | 0      | 82,049           | 523,519   | 5         | 31                  | 82,054  | 523,550   |
| 2016      | 0         | 0      | 94,397           | 658,376   | 0         | 0                   | 94,397  | 658,376   |
| Averages  |           |        |                  |           |           |                     |         |           |
| 1996–2015 | 2         | 14     | 90,898           | 685,384   | 39        | 292                 | 90,939  | 685,690   |
| 2006–2015 | 0         | 0      | 90,026           | 658,127   | 28        | 218                 | 90,054  | 658,345   |
| 2011–2015 | 0         | 0      | 71,377           | 517,257   | 10        | 91                  | 71,387  | 517,348   |

Note: No reliable estimates (ND) were available for some years.

<sup>a</sup> Weights of home pack fish are not reported on fish tickets; therefore, the weights were calculated from the average weight of the commercial harvest for that year.

Table 26.—Chignik Management Area coho salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1980–2016.

| Year      | District    |         |         |         |            | Total   |
|-----------|-------------|---------|---------|---------|------------|---------|
|           | Chignik Bay | Central | Eastern | Western | Perryville |         |
| 1980      | 49,784      | 7,167   | 13,872  | 34,631  | 14,119     | 119,573 |
| 1981      | 35,578      | 8,693   | 6,222   | 22,047  | 6,265      | 78,805  |
| 1982      | 132,262     | 6,564   | 31,476  | 122,707 | 7,264      | 300,273 |
| 1983      | 29,519      | 330     | 441     | 27,173  | 4,464      | 61,927  |
| 1984      | 72,722      | 1,705   | 403     | 33,263  | 2,035      | 110,128 |
| 1985      | 156,553     | 7,111   | 3,203   | 23,357  | 938        | 191,162 |
| 1986      | 60,197      | 3,027   | 1,033   | 33,726  | 18,650     | 116,633 |
| 1987      | 77,333      | 3,806   | 7       | 58,688  | 10,580     | 150,414 |
| 1988      | 94,292      | 21,628  | 6,167   | 207,086 | 41,247     | 370,420 |
| 1989      | 68,231      | 2       | 0       | 0       | 0          | 68,233  |
| 1990      | 61,260      | 27,659  | 32      | 23,422  | 17,758     | 130,131 |
| 1991      | 56,574      | 9,294   | 1,187   | 57,373  | 41,197     | 165,625 |
| 1992      | 80,946      | 19,612  | 4,260   | 140,560 | 65,565     | 310,943 |
| 1993      | 48,808      | 36,421  | 4,240   | 84,056  | 55,934     | 229,459 |
| 1994      | 70,541      | 19,794  | 176     | 110,476 | 36,217     | 237,204 |
| 1995      | 54,646      | 46,975  | 458     | 88,116  | 91,323     | 281,518 |
| 1996      | 45,361      | 35,440  | 33      | 91,587  | 20,825     | 193,246 |
| 1997      | 32,847      | 45,878  | 1,801   | 9,139   | 1,243      | 90,908  |
| 1998      | 23,070      | 32,743  | 1,227   | 55,359  | 17,140     | 129,539 |
| 1999      | 23,144      | 24,308  | 3,095   | 36,405  | 2,658      | 89,610  |
| 2000      | 11,620      | 37,943  | 2,555   | 69,599  | 1,505      | 123,222 |
| 2001      | 10,007      | 31,062  | 2,303   | 86,580  | 1,496      | 131,448 |
| 2002      | 8,461       | 4,442   | 0       | 36,283  | 186        | 49,372  |
| 2003      | 37,800      | 7,632   | 0       | 55,225  | 3,239      | 103,896 |
| 2004      | 37          | 0       | 0       | 0       | 0          | 37      |
| 2005      | 510         | 730     | 12      | 5,045   | 659        | 6,956   |
| 2006      | 7,057       | 2,170   | 1       | 29,993  | 0          | 39,221  |
| 2007      | 11,790      | 12,830  | 420     | 47,525  | 712        | 73,277  |
| 2008      | 46,400      | 7,647   | 1,052   | 97,153  | 9,284      | 161,536 |
| 2009      | 9,570       | 13,276  | 2,888   | 80,395  | 4,244      | 110,373 |
| 2010      | 17,469      | 27,982  | 3,109   | 104,886 | 5,752      | 159,198 |
| 2011      | 1,801       | 12,915  | 354     | 50,504  | 11,218     | 76,792  |
| 2012      | 6,545       | 4,667   | 36      | 22,037  | 31         | 33,316  |
| 2013      | 4,146       | 8,238   | 521     | 16,770  | 2,637      | 32,312  |
| 2014      | 6,550       | 17,584  | 653     | 98,345  | 9,327      | 132,459 |
| 2015      | 712         | 27,257  | 454     | 48,950  | 4,681      | 82,054  |
| 2016      | 4,604       | 41,515  | 55      | 26,940  | 21,283     | 94,397  |
| Averages  |             |         |         |         |            |         |
| 1996–2015 | 15,245      | 17,737  | 1,026   | 52,089  | 4,842      | 90,939  |
| 2006–2015 | 11,204      | 13,457  | 949     | 59,656  | 4,789      | 90,054  |
| 2011–2015 | 3,951       | 14,132  | 404     | 47,321  | 5,579      | 71,387  |



Table 27.—Chignik Management Area coho salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2016.

| Date              | Number of permits | District    |              |              |              |              | Total |
|-------------------|-------------------|-------------|--------------|--------------|--------------|--------------|-------|
|                   |                   | Chignik Bay | Central      | Eastern      | Western      | Perryville   |       |
| 6/4               | 15                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/5               | 41                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/6               | 27                | 0           | <sup>a</sup> | 0            | Closed       | Closed       | 0     |
| 6/7               | 43                | 0           | 0            | 0            | Closed       | Closed       | 0     |
| 6/8               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/9               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/10              | 49                | 0           | 0            | 0            | Closed       | Closed       | 0     |
| 6/11              | 53                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/12              | 44                | 0           | 0            | 0            | Closed       | Closed       | 0     |
| 6/13              | 38                | 0           | 135          | 0            | Closed       | Closed       | 135   |
| 6/14              | 30                | 0           | 0            | 0            | Closed       | Closed       | 0     |
| 6/15              | 54                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/16              | 47                | 0           | 2            | 0            | <sup>a</sup> | Closed       | 2     |
| 6/17              | 54                | 0           | 4            | 0            | 0            | Closed       | 4     |
| 6/18              | 51                | 0           | 7            | 0            | Closed       | Closed       | 7     |
| 6/19              | 48                | 0           | 12           | 0            | Closed       | Closed       | 12    |
| 6/20              | 32                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/21              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/22 <sup>b</sup> | 1                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/23              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/24              | 58                | 17          | 0            | 0            | Closed       | Closed       | 17    |
| 6/25              | 49                | 0           | 6            | 55           | Closed       | Closed       | 61    |
| 6/26              | 57                | 0           | 31           | <sup>a</sup> | Closed       | Closed       | 31    |
| 6/27              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/28              | 52                | 0           | 6            | 0            | Closed       | Closed       | 6     |
| 6/29              | 43                | 1           | 3            | 0            | 42           | Closed       | 46    |
| 6/30              | 53                | 0           | 58           | <sup>a</sup> | 8            | Closed       | 66    |
| 7/1               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/2               | 44                | 0           | 0            | 0            | 0            | Closed       | 0     |
| 7/3               | 47                | 0           | 28           | <sup>a</sup> | 0            | Closed       | 28    |
| 7/4               | 49                | 0           | 214          | 0            | 0            | Closed       | 214   |
| 7/5               | 55                | 0           | 91           | 0            | 0            | Closed       | 91    |
| 7/6               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/7               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/8 <sup>b</sup>  | 1                 | 0           | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/9               | 58                | 4           | 712          | Closed       | 213          | 1,910        | 2,839 |
| 7/10              | 50                | 5           | 136          | Closed       | 223          | 4,108        | 4,472 |
| 7/11              | 51                | 66          | 646          | Closed       | 456          | <sup>a</sup> | 1,168 |
| 7/12              | 53                | 321         | 407          | Closed       | 876          | 1,610        | 3,214 |
| 7/13              | 30                | 1           | 221          | Closed       | <sup>a</sup> | 0            | 222   |
| 7/14              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/15              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/16              | 40                | 0           | 443          | Closed       | 460          | 568          | 1,471 |

-continued-

Table 27.–Page 2 of 2.

| Date                      | Number of permits | District    |              |         |              |            | Total  |
|---------------------------|-------------------|-------------|--------------|---------|--------------|------------|--------|
|                           |                   | Chignik Bay | Central      | Eastern | Western      | Perryville |        |
| 7/17                      | 48                | 418         | 644          | Closed  | 3,152        | 33         | 4,247  |
| 7/18                      | 54                | 1           | 524          | Closed  | 2,661        | 92         | 3,278  |
| 7/19                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/20                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/21                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/22                      | 58                | 1           | 1,846        | Closed  | 2,114        | 2,409      | 6,370  |
| 7/23                      | 43                | 8           | 378          | Closed  | 624          | 2,274      | 3,284  |
| 7/24                      | 48                | 27          | 428          | Closed  | 1,996        | 3,570      | 6,021  |
| 7/25                      | 48                | 7           | 1,354        | Closed  | 5,638        | 1,018      | 8,017  |
| 7/26                      | 47                | 51          | 1,582        | Closed  | 1,374        | 2,363      | 5,370  |
| 7/27                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/28                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/29                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/30                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 7/31 <sup>b</sup>         | 1                 | 0           | Closed       | Closed  | Closed       | Closed     | 0      |
| 8/1                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 8/2                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 8/3                       | 56                | 137         | 5,417        | Closed  | 2,559        | Closed     | 8,113  |
| 8/4                       | 46                | 2           | 2,132        | Closed  | 796          | Closed     | 2,930  |
| 8/5                       | 48                | 696         | 2,599        | Closed  | Closed       | Closed     | 3,295  |
| 8/6                       | 36                | 42          | 778          | Closed  | 1,153        | Closed     | 1,973  |
| 8/7                       | 44                | 6           | 5,479        | Closed  | <sup>a</sup> | Closed     | 5,485  |
| 8/8                       | 40                | 306         | 1,815        | Closed  | <sup>a</sup> | Closed     | 2,121  |
| 8/9                       | 36                | 5           | 2,187        | Closed  | <sup>a</sup> | Closed     | 2,192  |
| 8/10                      | 37                | 3           | 2,209        | Closed  | <sup>a</sup> | Closed     | 2,212  |
| 8/11                      | 34                | 8           | 2,285        | Closed  | <sup>a</sup> | Closed     | 2,293  |
| 8/12                      | 34                | 3           | 1,014        | Closed  | <sup>a</sup> | Closed     | 1,017  |
| 8/13                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0      |
| 8/14                      | 29                | 9           | 2,045        | Closed  | Closed       | Closed     | 2,054  |
| 8/15                      | 28                | 93          | 179          | Closed  | Closed       | Closed     | 272    |
| 8/16                      | 23                | 107         | 664          | Closed  | Closed       | Closed     | 771    |
| 8/17                      | 10                | 10          | <sup>a</sup> | Closed  | Closed       | Closed     | 10     |
| 8/18                      | 16                | 45          | <sup>a</sup> | Closed  | Closed       | Closed     | 45     |
| 8/19                      | 18                | 70          | 911          | Closed  | Closed       | Closed     | 981    |
| 8/20                      | 18                | 44          | 258          | Closed  | Closed       | Closed     | 302    |
| 8/21–8/31 <sup>a</sup>    | –                 | –           | –            | –       | –            | –          | –      |
| Season Total <sup>c</sup> | 70                | 4,604       | 41,515       | 55      | 26,940       | 21,283     | 94,397 |

<sup>a</sup> Confidentiality requirements prevent the release of this information.

<sup>b</sup> ADF&G test fishery.

<sup>c</sup> Season total includes information not provided by individual date due to confidentiality requirements.

Table 28.—Chignik Management Area pink salmon harvest, by year, 1980–2016.

| Year                  | Test fish |        | Commercial catch |            | Home pack |                     | Total     |            |
|-----------------------|-----------|--------|------------------|------------|-----------|---------------------|-----------|------------|
|                       | Number    | Pounds | Number           | Pounds     | Number    | Pounds <sup>a</sup> | Number    | Pounds     |
| 1980                  | ND        | ND     | 1,093,184        | 3,635,145  | ND        | ND                  | 1,093,184 | 3,635,145  |
| 1981                  | ND        | ND     | 1,162,613        | 4,479,368  | ND        | ND                  | 1,162,613 | 4,479,368  |
| 1982                  | ND        | ND     | 873,384          | 2,916,671  | ND        | ND                  | 873,384   | 2,916,671  |
| 1983                  | ND        | ND     | 321,178          | 1,200,888  | ND        | ND                  | 321,178   | 1,200,888  |
| 1984                  | ND        | ND     | 444,804          | 1,651,249  | ND        | ND                  | 444,804   | 1,651,249  |
| 1985                  | 0         | 0      | 160,128          | 643,731    | ND        | ND                  | 160,128   | 643,731    |
| 1986                  | ND        | ND     | 647,125          | 2,374,311  | ND        | ND                  | 647,125   | 2,374,311  |
| 1987                  | 0         | 0      | 246,775          | 899,560    | ND        | ND                  | 246,775   | 899,560    |
| 1988                  | 0         | 0      | 2,997,159        | 10,723,505 | ND        | ND                  | 2,997,159 | 10,723,505 |
| 1989                  | 0         | 0      | 27,712           | 94,269     | ND        | ND                  | 27,712    | 94,269     |
| 1990                  | 0         | 0      | 550,008          | 1,675,644  | ND        | ND                  | 550,008   | 1,675,644  |
| 1991                  | 2,660     | 9,237  | 1,166,588        | 3,348,394  | ND        | ND                  | 1,169,248 | 3,357,631  |
| 1992                  | 114       | 536    | 1,553,959        | 5,798,623  | ND        | ND                  | 1,554,073 | 5,799,159  |
| 1993                  | 1,826     | 5,539  | 1,646,551        | 5,308,258  | ND        | ND                  | 1,648,377 | 5,313,797  |
| 1994                  | 14        | 55     | 431,049          | 1,494,604  | ND        | ND                  | 431,063   | 1,494,659  |
| 1995                  | 0         | 0      | 2,057,998        | 7,350,386  | 0         | 0                   | 2,057,998 | 7,350,386  |
| 1996                  | 0         | 0      | 183,806          | 536,218    | 5,262     | 15,351              | 189,068   | 551,569    |
| 1997                  | 0         | 0      | 844,431          | 2,784,333  | 0         | 0                   | 844,431   | 2,784,333  |
| 1998                  | 0         | 0      | 776,988          | 2,586,026  | 0         | 0                   | 776,988   | 2,586,026  |
| 1999                  | 0         | 0      | 1,698,651        | 4,845,435  | 0         | 0                   | 1,698,651 | 4,845,435  |
| 2000                  | 0         | 0      | 428,064          | 1,183,004  | 0         | 0                   | 428,064   | 1,183,004  |
| 2001                  | 0         | 0      | 1,281,760        | 4,077,814  | 7         | 22                  | 1,281,767 | 4,077,836  |
| 2002                  | 66        | 276    | 65,984           | 206,385    | 0         | 0                   | 66,050    | 206,661    |
| 2003                  | 570       | 2,167  | 501,661          | 1,951,928  | 407       | 1,584               | 502,638   | 1,955,679  |
| 2004                  | 0         | 0      | 2,380            | 7,589      | 0         | 0                   | 2,380     | 7,589      |
| 2005                  | 8         | 48     | 193,803          | 611,023    | 234       | 813                 | 194,045   | 611,884    |
| 2006                  | 0         | 0      | 383,574          | 1,403,428  | 0         | 0                   | 383,574   | 1,403,428  |
| 2007                  | 0         | 0      | 2,019,748        | 7,388,012  | 0         | 0                   | 2,019,748 | 7,388,012  |
| 2008                  | 0         | 0      | 2,389,958        | 8,192,350  | 0         | 0                   | 2,389,958 | 8,192,350  |
| 2009                  | 0         | 0      | 1,408,339        | 4,502,661  | 0         | 0                   | 1,408,339 | 4,502,661  |
| 2010                  | 0         | 0      | 489,774          | 1,663,961  | 7         | 24                  | 489,781   | 1,663,985  |
| 2011                  | 58        | 154    | 905,108          | 2,882,546  | 0         | 0                   | 905,166   | 2,882,700  |
| 2012                  | 0         | 0      | 137,684          | 452,160    | 22        | 65                  | 137,706   | 452,225    |
| 2013                  | 3         | 6      | 871,868          | 2,610,880  | 0         | 0                   | 871,871   | 2,610,886  |
| 2014                  | 16        | 60     | 352,099          | 1,138,241  | 0         | 0                   | 352,115   | 1,138,301  |
| 2015                  | 77        | 195    | 1,978,134        | 5,843,570  | 0         | 0                   | 1,978,211 | 5,843,765  |
| 2016                  | 18        | 69     | 140,895          | 563,390    | 0         | 0                   | 140,913   | 563,459    |
| Averages (even years) |           |        |                  |            |           |                     |           |            |
| 1996–2014             | 8         | 34     | 521,031          | 1,736,936  | 529       | 1,544               | 521,568   | 1,738,514  |
| 2006–2014             | 3         | 12     | 750,618          | 2,570,028  | 6         | 18                  | 750,627   | 2,570,058  |
| 2010–2014             | 5         | 20     | 326,519          | 1,084,787  | 10        | 30                  | 326,534   | 1,084,837  |

Note: No reliable estimates (ND) were available for some years.

<sup>a</sup> Weights of home pack fish are not reported on fish tickets; therefore, they were calculated from the average weight of the commercial harvest.

Table 29.—Chignik Management Area pink salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1980–2016.

| Year                  | District    |         |           |           |            | Total     |
|-----------------------|-------------|---------|-----------|-----------|------------|-----------|
|                       | Chignik Bay | Central | Eastern   | Western   | Perryville |           |
| 1980                  | 180,912     | 108,682 | 472,510   | 216,460   | 114,620    | 1,093,184 |
| 1981                  | 121,380     | 210,023 | 173,293   | 433,605   | 224,312    | 1,162,613 |
| 1982                  | 82,973      | 80,606  | 89,074    | 602,408   | 18,323     | 873,384   |
| 1983                  | 27,284      | 7,861   | 7,817     | 164,338   | 113,878    | 321,178   |
| 1984                  | 165,178     | 47,250  | 57,715    | 173,820   | 841        | 444,804   |
| 1985                  | 14,429      | 16,087  | 6,570     | 80,577    | 42,465     | 160,128   |
| 1986                  | 191,264     | 44,127  | 49,635    | 200,793   | 161,306    | 647,125   |
| 1987                  | 13,887      | 7,769   | 2,079     | 187,701   | 35,339     | 246,775   |
| 1988                  | 119,794     | 318,370 | 1,006,366 | 1,141,382 | 411,247    | 2,997,159 |
| 1989                  | 27,691      | 21      | 0         | 0         | 0          | 27,712    |
| 1990                  | 94,528      | 233,677 | 40,574    | 135,810   | 45,419     | 550,008   |
| 1991                  | 76,163      | 173,967 | 27,979    | 419,264   | 471,875    | 1,169,248 |
| 1992                  | 178,105     | 205,750 | 183,119   | 628,900   | 358,199    | 1,554,073 |
| 1993                  | 55,909      | 205,037 | 52,755    | 685,605   | 649,071    | 1,648,377 |
| 1994                  | 59,425      | 99,149  | 12,952    | 174,641   | 84,896     | 431,063   |
| 1995                  | 106,939     | 469,745 | 8,572     | 791,718   | 681,024    | 2,057,998 |
| 1996                  | 1,804       | 20,717  | 7,201     | 100,871   | 58,475     | 189,068   |
| 1997                  | 39,461      | 603,575 | 72,347    | 118,003   | 11,045     | 844,431   |
| 1998                  | 26,054      | 233,732 | 66,725    | 343,187   | 107,290    | 776,988   |
| 1999                  | 59,001      | 664,208 | 40,571    | 771,411   | 163,460    | 1,698,651 |
| 2000                  | 28,067      | 271,417 | 10,500    | 106,147   | 11,933     | 428,064   |
| 2001                  | 75,142      | 641,438 | 97,438    | 424,537   | 43,212     | 1,281,767 |
| 2002                  | 10,253      | 17,580  | 0         | 36,918    | 1,299      | 66,050    |
| 2003                  | 56,042      | 88,736  | 267       | 326,239   | 31,354     | 502,638   |
| 2004                  | 2,378       | 2       | 0         | 0         | 0          | 2,380     |
| 2005                  | 71,438      | 99,491  | 21        | 20,952    | 2,143      | 194,045   |
| 2006                  | 62,419      | 79,726  | 79,465    | 161,964   | 0          | 383,574   |
| 2007                  | 187,670     | 612,921 | 43,379    | 1,152,331 | 23,447     | 2,019,748 |
| 2008                  | 232,444     | 369,298 | 416,520   | 1,062,482 | 309,214    | 2,389,958 |
| 2009                  | 77,569      | 317,085 | 275,791   | 711,890   | 26,004     | 1,408,339 |
| 2010                  | 30,683      | 183,008 | 43,264    | 225,716   | 7,110      | 489,781   |
| 2011                  | 30,707      | 225,307 | 54,288    | 368,351   | 226,513    | 905,166   |
| 2012                  | 10,096      | 55,030  | 4,946     | 67,523    | 111        | 137,706   |
| 2013                  | 76,473      | 218,685 | 197,293   | 192,861   | 186,559    | 871,871   |
| 2014                  | 11,663      | 98,984  | 2,964     | 226,008   | 12,496     | 352,115   |
| 2015                  | 81,541      | 686,374 | 13,783    | 993,349   | 203,164    | 1,978,211 |
| 2016                  | 3,110       | 85,346  | 10,142    | 25,000    | 17,315     | 140,913   |
| Averages (even years) |             |         |           |           |            |           |
| 1996–2014             | 41,586      | 132,949 | 63,159    | 233,082   | 50,793     | 521,568   |
| 2006–2014             | 69,461      | 157,209 | 109,432   | 348,739   | 65,786     | 750,627   |
| 2010–2014             | 17,481      | 112,341 | 17,058    | 173,082   | 6,572      | 326,534   |

Table 30.—Chignik Management Area pink salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2016.

| Date              | Number of permits | District    |              |              |              |              | Total |
|-------------------|-------------------|-------------|--------------|--------------|--------------|--------------|-------|
|                   |                   | Chignik Bay | Central      | Eastern      | Western      | Perryville   |       |
| 6/4               | 15                | 0           | 0            | <sup>a</sup> | Closed       | Closed       | 0     |
| 6/5               | 41                | 0           | 29           | <sup>a</sup> | Closed       | Closed       | 29    |
| 6/6               | 27                | 0           | <sup>a</sup> | 0            | Closed       | Closed       | 0     |
| 6/7               | 43                | 12          | 23           | 0            | Closed       | Closed       | 35    |
| 6/8               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/9               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/10              | 49                | 0           | 10           | 0            | Closed       | Closed       | 10    |
| 6/11              | 53                | 0           | 546          | <sup>a</sup> | Closed       | Closed       | 546   |
| 6/12              | 44                | 0           | 40           | 191          | Closed       | Closed       | 231   |
| 6/13              | 38                | 0           | 535          | 728          | Closed       | Closed       | 1,263 |
| 6/14              | 30                | 14          | 87           | 0            | Closed       | Closed       | 101   |
| 6/15              | 54                | 3           | 214          | <sup>a</sup> | Closed       | Closed       | 217   |
| 6/16              | 47                | 4           | 288          | 526          | <sup>a</sup> | Closed       | 818   |
| 6/17              | 54                | 0           | 768          | 2,276        | 0            | Closed       | 3,044 |
| 6/18              | 51                | 0           | 996          | 0            | Closed       | Closed       | 996   |
| 6/19              | 48                | 1           | 2,751        | 204          | Closed       | Closed       | 2,956 |
| 6/20              | 32                | 0           | 2,540        | <sup>a</sup> | Closed       | Closed       | 2,540 |
| 6/21              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/22 <sup>b</sup> | 1                 | 0           | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/23              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/24              | 58                | 0           | 4,773        | 2,523        | Closed       | Closed       | 7,296 |
| 6/25              | 49                | 5           | 2,772        | 638          | Closed       | Closed       | 3,415 |
| 6/26              | 57                | 5           | 866          | <sup>a</sup> | Closed       | Closed       | 871   |
| 6/27              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/28              | 52                | 15          | 472          | 0            | Closed       | Closed       | 487   |
| 6/29              | 43                | 8           | 519          | 0            | 339          | Closed       | 866   |
| 6/30              | 53                | 12          | 712          | <sup>a</sup> | 1,990        | Closed       | 2,714 |
| 7/1               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/2               | 44                | 6           | 988          | 0            | 0            | Closed       | 994   |
| 7/3               | 47                | 26          | 271          | <sup>a</sup> | 0            | Closed       | 297   |
| 7/4               | 49                | 5           | 426          | 0            | 0            | Closed       | 431   |
| 7/5               | 55                | 3           | 635          | 0            | 0            | Closed       | 638   |
| 7/6               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/7               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/8 <sup>b</sup>  | 1                 | 7           | Closed       | Closed       | Closed       | Closed       | 7     |
| 7/9               | 58                | 31          | 650          | Closed       | 200          | 1,145        | 2,026 |
| 7/10              | 50                | 45          | 656          | Closed       | 341          | 2,062        | 3,104 |
| 7/11              | 51                | 77          | 1,129        | Closed       | 344          | <sup>a</sup> | 1,550 |
| 7/12              | 53                | 209         | 563          | Closed       | 807          | 695          | 2,274 |
| 7/13              | 30                | 2           | 777          | Closed       | <sup>a</sup> | 0            | 779   |
| 7/14              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/15              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/16              | 40                | 5           | 782          | Closed       | 1,155        | 676          | 2,618 |

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Table 30.–Page 2 of 2.

| Date                      | Number of permits | District    |              |         |              |            | Total   |
|---------------------------|-------------------|-------------|--------------|---------|--------------|------------|---------|
|                           |                   | Chignik Bay | Central      | Eastern | Western      | Perryville |         |
| 7/17                      | 48                | 246         | 1,685        | Closed  | 2,434        | 200        | 4,565   |
| 7/18                      | 54                | 11          | 1,367        | Closed  | 1,660        | 279        | 3,317   |
| 7/19                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/20                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/21                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/22                      | 58                | 18          | 3,762        | Closed  | 1,678        | 3,052      | 8,510   |
| 7/23                      | 43                | 32          | 342          | Closed  | 1,623        | 1,600      | 3,597   |
| 7/24                      | 48                | 60          | 2,368        | Closed  | 1,321        | 3,193      | 6,942   |
| 7/25                      | 48                | 34          | 2,200        | Closed  | 5,839        | 1,068      | 9,141   |
| 7/26                      | 47                | 78          | 2,387        | Closed  | 1,956        | 3,011      | 7,432   |
| 7/27                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/28                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/29                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/30                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/31 <sup>b</sup>         | 1                 | 11          | Closed       | Closed  | Closed       | Closed     | 11      |
| 8/1                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/2                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/3                       | 56                | 290         | 10,610       | Closed  | 2,559        | Closed     | 13,459  |
| 8/4                       | 46                | 97          | 3,554        | Closed  | 796          | Closed     | 4,447   |
| 8/5                       | 48                | 493         | 5,768        | Closed  | Closed       | Closed     | 6,261   |
| 8/6                       | 36                | 46          | 1,877        | Closed  | 474          | Closed     | 2,397   |
| 8/7                       | 44                | 75          | 6,697        | Closed  | <sup>a</sup> | Closed     | 6,772   |
| 8/8                       | 40                | 218         | 3,070        | Closed  | <sup>a</sup> | Closed     | 3,288   |
| 8/9                       | 36                | 67          | 2,529        | Closed  | <sup>a</sup> | Closed     | 2,596   |
| 8/10                      | 37                | 66          | 3,451        | Closed  | <sup>a</sup> | Closed     | 3,517   |
| 8/11                      | 34                | 67          | 2,822        | Closed  | <sup>a</sup> | Closed     | 2,889   |
| 8/12                      | 34                | 56          | 1,180        | Closed  | <sup>a</sup> | Closed     | 1,236   |
| 8/13                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/14                      | 29                | 30          | 2,328        | Closed  | Closed       | Closed     | 2,358   |
| 8/15                      | 28                | 113         | 166          | Closed  | Closed       | Closed     | 279     |
| 8/16                      | 23                | 67          | 325          | Closed  | Closed       | Closed     | 392     |
| 8/17                      | 10                | 28          | <sup>a</sup> | Closed  | Closed       | Closed     | 28      |
| 8/18                      | 16                | 60          | <sup>a</sup> | Closed  | Closed       | Closed     | 60      |
| 8/19                      | 18                | 83          | 429          | Closed  | Closed       | Closed     | 512     |
| 8/20                      | 18                | 59          | 141          | Closed  | Closed       | Closed     | 200     |
| 8/21–8/31 <sup>a</sup>    | –                 | –           | –            | –       | –            | –          | –       |
| Season total <sup>c</sup> | 70                | 3,110       | 85,346       | 10,142  | 25,000       | 17,315     | 140,913 |

<sup>a</sup> Confidentiality requirements prevent the release of this information.

<sup>b</sup> ADF&G test fishery.

<sup>c</sup> Season total includes information not provided by individual date due to confidentiality requirements.

Table 31.—Chignik Management Area chum salmon harvest, by year, 1980–2016.

| Year      | Test fish |        | Commercial catch |           | Home pack |                     | Total   |           |
|-----------|-----------|--------|------------------|-----------|-----------|---------------------|---------|-----------|
|           | Number    | Pounds | Number           | Pounds    | Number    | Pounds <sup>a</sup> | Number  | Pounds    |
| 1980      | ND        | ND     | 252,521          | 1,765,287 | ND        | ND                  | 252,521 | 1,765,287 |
| 1981      | ND        | ND     | 580,332          | 4,502,632 | ND        | ND                  | 580,332 | 4,502,632 |
| 1982      | ND        | ND     | 390,096          | 3,231,403 | ND        | ND                  | 390,096 | 3,231,403 |
| 1983      | ND        | ND     | 159,412          | 1,205,266 | ND        | ND                  | 159,412 | 1,205,266 |
| 1984      | ND        | ND     | 63,303           | 485,967   | ND        | ND                  | 63,303  | 485,967   |
| 1985      | 0         | 0      | 22,805           | 145,276   | ND        | ND                  | 22,805  | 145,276   |
| 1986      | ND        | ND     | 176,640          | 1,304,418 | ND        | ND                  | 176,640 | 1,304,418 |
| 1987      | 0         | 0      | 127,261          | 943,941   | ND        | ND                  | 127,261 | 943,941   |
| 1988      | 0         | 0      | 267,775          | 2,196,377 | ND        | ND                  | 267,775 | 2,196,377 |
| 1989      | 0         | 0      | 1,624            | 11,888    | ND        | ND                  | 1,624   | 11,888    |
| 1990      | 0         | 0      | 270,004          | 1,757,019 | ND        | ND                  | 270,004 | 1,757,019 |
| 1991      | 607       | 4,260  | 260,489          | 1,671,939 | ND        | ND                  | 261,096 | 1,676,199 |
| 1992      | 16        | 140    | 222,118          | 1,592,186 | ND        | ND                  | 222,134 | 1,592,326 |
| 1993      | 57        | 300    | 122,303          | 735,747   | ND        | ND                  | 122,360 | 736,047   |
| 1994      | 521       | 3,437  | 226,755          | 1,627,574 | ND        | ND                  | 227,276 | 1,631,011 |
| 1995      | 0         | 0      | 380,949          | 2,814,987 | 5         | 37                  | 380,954 | 2,815,024 |
| 1996      | 0         | 0      | 99,791           | 779,840   | 21,100    | 164,891             | 120,891 | 944,731   |
| 1997      | 0         | 0      | 155,905          | 1,196,999 | 0         | 0                   | 155,905 | 1,196,999 |
| 1998      | 0         | 0      | 128,841          | 917,648   | 155       | 1,104               | 128,996 | 918,752   |
| 1999      | 0         | 0      | 140,594          | 1,064,433 | 3         | 0                   | 140,597 | 1,064,433 |
| 2000      | 0         | 0      | 120,957          | 1,033,665 | 0         | 0                   | 120,957 | 1,033,665 |
| 2001      | 0         | 0      | 198,874          | 1,609,533 | 129       | 1,044               | 199,003 | 1,610,577 |
| 2002      | 46        | 334    | 54,513           | 406,382   | 0         | 0                   | 54,559  | 406,716   |
| 2003      | 137       | 1,394  | 63,907           | 447,921   | 0         | 0                   | 64,044  | 449,315   |
| 2004      | 0         | 0      | 505              | 3,803     | 0         | 0                   | 505     | 3,803     |
| 2005      | 2         | 15     | 8,704            | 63,379    | 115       | 825                 | 8,821   | 64,219    |
| 2006      | 0         | 0      | 61,630           | 450,686   | 0         | 0                   | 61,630  | 450,686   |
| 2007      | 0         | 0      | 78,552           | 648,355   | 1         | 8                   | 78,553  | 648,363   |
| 2008      | 0         | 0      | 209,325          | 1,726,108 | 0         | 0                   | 209,325 | 1,726,108 |
| 2009      | 0         | 0      | 256,424          | 1,922,522 | 1         | 9                   | 256,425 | 1,922,531 |
| 2010      | 0         | 0      | 581,329          | 4,437,042 | 0         | 0                   | 581,329 | 4,437,042 |
| 2011      | 11        | 91     | 269,492          | 1,857,512 | 0         | 0                   | 269,503 | 1,857,603 |
| 2012      | 0         | 0      | 170,872          | 1,533,079 | 240       | 1,780               | 171,112 | 1,534,859 |
| 2013      | 0         | 0      | 154,965          | 1,196,565 | 0         | 0                   | 154,965 | 1,196,565 |
| 2014      | 3         | 24     | 55,149           | 458,475   | 0         | 0                   | 55,152  | 458,499   |
| 2015      | 16        | 113    | 101,001          | 656,047   | 0         | 0                   | 101,017 | 656,160   |
| 2016      | 17        | 139    | 118,418          | 805,140   | 0         | 0                   | 118,435 | 805,279   |
| Averages  |           |        |                  |           |           |                     |         |           |
| 1996–2015 | 11        | 99     | 145,567          | 1,120,500 | 1,087     | 8,483               | 146,664 | 1,129,081 |
| 2006–2015 | 3         | 23     | 193,874          | 1,488,639 | 24        | 180                 | 193,901 | 1,488,842 |
| 2011–2015 | 6         | 46     | 150,296          | 1,140,336 | 48        | 356                 | 150,350 | 1,140,737 |

Note: No reliable estimates (ND) were available for some years.

<sup>a</sup> Weights of home pack fish are not reported on all fish tickets; therefore, they were calculated from the average weight of the commercial harvest.

Table 32.—Chignik Management Area chum salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1980–2016.

| Year      | District    |         |         |         |            | Total   |
|-----------|-------------|---------|---------|---------|------------|---------|
|           | Chignik Bay | Central | Eastern | Western | Perryville |         |
| 1980      | 19,944      | 38,902  | 56,805  | 91,868  | 45,002     | 252,521 |
| 1981      | 38,061      | 160,730 | 108,668 | 221,579 | 51,294     | 580,332 |
| 1982      | 16,034      | 33,669  | 64,513  | 253,299 | 22,581     | 390,096 |
| 1983      | 16,747      | 9,815   | 8,250   | 101,959 | 22,641     | 159,412 |
| 1984      | 8,173       | 8,150   | 21,134  | 25,364  | 482        | 63,303  |
| 1985      | 4,905       | 5,242   | 864     | 10,704  | 1,090      | 22,805  |
| 1986      | 18,167      | 29,502  | 17,880  | 74,070  | 37,021     | 176,640 |
| 1987      | 5,163       | 9,437   | 8,890   | 86,898  | 16,873     | 127,261 |
| 1988      | 7,013       | 39,316  | 77,511  | 102,730 | 41,205     | 267,775 |
| 1989      | 1,587       | 34      | 3       | 0       | 0          | 1,624   |
| 1990      | 11,460      | 113,741 | 27,463  | 91,603  | 25,737     | 270,004 |
| 1991      | 17,545      | 51,429  | 4,925   | 98,603  | 88,594     | 261,096 |
| 1992      | 12,711      | 45,569  | 61,209  | 65,466  | 37,179     | 222,134 |
| 1993      | 8,116       | 43,306  | 21,157  | 25,045  | 24,736     | 122,360 |
| 1994      | 25,250      | 69,552  | 4,333   | 94,116  | 34,025     | 227,276 |
| 1995      | 14,588      | 107,066 | 8,074   | 158,273 | 92,953     | 380,954 |
| 1996      | 782         | 46,993  | 19,837  | 36,303  | 16,976     | 120,891 |
| 1997      | 20,978      | 104,259 | 11,397  | 16,280  | 2,991      | 155,905 |
| 1998      | 7,352       | 43,191  | 5,180   | 41,425  | 31,848     | 128,996 |
| 1999      | 12,150      | 75,495  | 11,332  | 37,089  | 4,531      | 140,597 |
| 2000      | 8,389       | 66,904  | 8,045   | 34,823  | 2,796      | 120,957 |
| 2001      | 11,534      | 84,132  | 50,911  | 37,466  | 14,960     | 199,003 |
| 2002      | 3,949       | 9,643   | 513     | 40,337  | 117        | 54,559  |
| 2003      | 10,891      | 11,304  | 50      | 39,883  | 1,916      | 64,044  |
| 2004      | 499         | 6       | 0       | 0       | 0          | 505     |
| 2005      | 2,370       | 5,329   | 2       | 1,054   | 66         | 8,821   |
| 2006      | 2,303       | 9,455   | 776     | 49,096  | 0          | 61,630  |
| 2007      | 3,829       | 19,595  | 7,851   | 46,943  | 335        | 78,553  |
| 2008      | 13,453      | 40,130  | 58,925  | 88,078  | 8,739      | 209,325 |
| 2009      | 14,553      | 62,149  | 59,800  | 116,231 | 3,692      | 256,425 |
| 2010      | 27,388      | 226,501 | 116,336 | 204,911 | 6,193      | 581,329 |
| 2011      | 9,077       | 116,580 | 51,989  | 75,363  | 16,494     | 269,503 |
| 2012      | 5,523       | 88,120  | 21,227  | 56,125  | 117        | 171,112 |
| 2013      | 9,202       | 57,356  | 45,268  | 38,237  | 4,902      | 154,965 |
| 2014      | 4,329       | 20,750  | 610     | 26,578  | 2,885      | 55,152  |
| 2015      | 5,683       | 39,373  | 2,768   | 48,080  | 5,113      | 101,017 |
| 2016      | 5,141       | 57,563  | 21,654  | 26,992  | 7,085      | 118,435 |
| Averages  |             |         |         |         |            |         |
| 1996–2015 | 8,712       | 56,363  | 23,641  | 51,715  | 6,234      | 146,664 |
| 2006–2015 | 9,534       | 68,001  | 36,555  | 74,964  | 4,847      | 193,901 |
| 2011–2015 | 6,763       | 64,436  | 24,372  | 48,877  | 5,902      | 150,350 |



Table 33.–Chignik Management Area chum salmon harvest (including home pack and the department's test fishery catches), by district and day, 2016.

| Date              | Number of Permits | District    |              |              |              |              | Total |
|-------------------|-------------------|-------------|--------------|--------------|--------------|--------------|-------|
|                   |                   | Chignik Bay | Central      | Eastern      | Western      | Perryville   |       |
| 6/4               | 15                | 0           | 269          | <sup>a</sup> | Closed       | Closed       | 284   |
| 6/5               | 41                | 1           | 181          | <sup>a</sup> | Closed       | Closed       | 223   |
| 6/6               | 27                | 22          | <sup>a</sup> | 0            | Closed       | Closed       | 49    |
| 6/7               | 43                | 30          | 448          | 0            | Closed       | Closed       | 521   |
| 6/8               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/9               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/10              | 49                | 2           | 1,050        | 0            | Closed       | Closed       | 1,101 |
| 6/11              | 53                | 1           | 657          | <sup>a</sup> | Closed       | Closed       | 711   |
| 6/12              | 44                | 40          | 436          | 1,063        | Closed       | Closed       | 1,583 |
| 6/13              | 38                | 0           | 1,845        | 1,190        | Closed       | Closed       | 3,073 |
| 6/14              | 30                | 9           | 107          | 0            | Closed       | Closed       | 146   |
| 6/15              | 54                | 4           | 425          | <sup>a</sup> | Closed       | Closed       | 483   |
| 6/16              | 47                | 2           | 154          | 1,578        | <sup>a</sup> | Closed       | 1,781 |
| 6/17              | 54                | 10          | 594          | 7,251        | 0            | Closed       | 7,909 |
| 6/18              | 51                | 2           | 1,182        | 0            | Closed       | Closed       | 1,235 |
| 6/19              | 48                | 14          | 1,908        | 153          | Closed       | Closed       | 2,123 |
| 6/20              | 32                | 2           | 858          | <sup>a</sup> | Closed       | Closed       | 892   |
| 6/21              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/22 <sup>b</sup> | 1                 | 0           | Closed       | Closed       | Closed       | Closed       | 1     |
| 6/23              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/24              | 58                | 8           | 2,921        | 2,462        | Closed       | Closed       | 5,449 |
| 6/25              | 49                | 14          | 2,124        | 1,377        | Closed       | Closed       | 3,564 |
| 6/26              | 57                | 8           | 680          | <sup>a</sup> | Closed       | Closed       | 745   |
| 6/27              | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 6/28              | 52                | 45          | 348          | 0            | Closed       | Closed       | 445   |
| 6/29              | 43                | 16          | 424          | 0            | 2,750        | Closed       | 3,233 |
| 6/30              | 53                | 175         | 531          | <sup>a</sup> | 2,172        | Closed       | 2,931 |
| 7/1               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/2               | 44                | 32          | 2,346        | 0            | 0            | Closed       | 2,422 |
| 7/3               | 47                | 93          | 442          | <sup>a</sup> | 0            | Closed       | 582   |
| 7/4               | 49                | 57          | 1,136        | 0            | 0            | Closed       | 1,242 |
| 7/5               | 55                | 16          | 884          | 0            | 0            | Closed       | 955   |
| 7/6               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/7               | 0                 | Closed      | Closed       | Closed       | Closed       | Closed       | 0     |
| 7/8 <sup>b</sup>  | 1                 | 7           | Closed       | Closed       | Closed       | Closed       | 8     |
| 7/9               | 58                | 135         | 755          | Closed       | 733          | 636          | 2,317 |
| 7/10              | 50                | 194         | 208          | Closed       | 1,154        | 486          | 2,092 |
| 7/11              | 51                | 126         | 706          | Closed       | 1,146        | <sup>a</sup> | 2,029 |
| 7/12              | 53                | 179         | 494          | Closed       | 2,184        | 504          | 3,414 |
| 7/13              | 30                | 32          | 555          | Closed       | <sup>a</sup> | 0            | 617   |
| 7/14              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/15              | <sup>a</sup>      | Closed      | <sup>a</sup> | Closed       | <sup>a</sup> | <sup>a</sup> | 0     |
| 7/16              | 40                | 53          | 560          | Closed       | 2,070        | 675          | 3,398 |

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Table 33.–Page 2 of 2.

| Date                      | Number of Permits | District    |              |         |              |            | Total   |
|---------------------------|-------------------|-------------|--------------|---------|--------------|------------|---------|
|                           |                   | Chignik Bay | Central      | Eastern | Western      | Perryville |         |
| 7/17                      | 48                | 173         | 689          | Closed  | 2,429        | 274        | 3,613   |
| 7/18                      | 54                | 76          | 527          | Closed  | 1,181        | 167        | 2,005   |
| 7/19                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/20                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/21                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/22                      | 58                | 103         | 2,196        | Closed  | 990          | 1,242      | 4,589   |
| 7/23                      | 43                | 154         | 277          | Closed  | 96           | 563        | 1,090   |
| 7/24                      | 48                | 122         | 1,000        | Closed  | 275          | 1,027      | 2,424   |
| 7/25                      | 48                | 81          | 1,283        | Closed  | 4,823        | 353        | 6,540   |
| 7/26                      | 47                | 85          | 2,134        | Closed  | 839          | 992        | 4,050   |
| 7/27                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/28                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/29                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/30                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 7/31 <sup>b</sup>         | 1                 | 10          | Closed       | Closed  | Closed       | Closed     | 10      |
| 8/1                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/2                       | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/3                       | 56                | 222         | 3,779        | Closed  | 2,559        | Closed     | 6,560   |
| 8/4                       | 46                | 148         | 1,476        | Closed  | 796          | Closed     | 2,420   |
| 8/5                       | 48                | 238         | 2,068        | Closed  | Closed       | Closed     | 2,306   |
| 8/6                       | 36                | 114         | 763          | Closed  | 425          | Closed     | 1,302   |
| 8/7                       | 44                | 122         | 3,429        | Closed  | <sup>a</sup> | Closed     | 3,551   |
| 8/8                       | 40                | 175         | 2,249        | Closed  | <sup>a</sup> | Closed     | 2,424   |
| 8/9                       | 36                | 60          | 1,865        | Closed  | <sup>a</sup> | Closed     | 1,925   |
| 8/10                      | 37                | 98          | 2,434        | Closed  | <sup>a</sup> | Closed     | 2,532   |
| 8/11                      | 34                | 185         | 1,706        | Closed  | <sup>a</sup> | Closed     | 1,891   |
| 8/12                      | 34                | 56          | 1,095        | Closed  | <sup>a</sup> | Closed     | 1,151   |
| 8/13                      | 0                 | Closed      | Closed       | Closed  | Closed       | Closed     | 0       |
| 8/14                      | 29                | 29          | 1,433        | Closed  | Closed       | Closed     | 1,462   |
| 8/15                      | 28                | 182         | 130          | Closed  | Closed       | Closed     | 312     |
| 8/16                      | 23                | 137         | 446          | Closed  | Closed       | Closed     | 583     |
| 8/17                      | 10                | 54          | <sup>a</sup> | Closed  | Closed       | Closed     | 54      |
| 8/18                      | 16                | 99          | <sup>a</sup> | Closed  | Closed       | Closed     | 99      |
| 8/19                      | 18                | 108         | 490          | Closed  | Closed       | Closed     | 598     |
| 8/20                      | 18                | 85          | 144          | Closed  | Closed       | Closed     | 229     |
| 8/21–8/31 <sup>a</sup>    | –                 | –           | –            | –       | –            | –          | –       |
| Season Total <sup>c</sup> | 70                | 5,141       | 57,563       | 21,654  | 26,992       | 7,085      | 118,435 |

<sup>a</sup> Confidentiality requirements prevent the release of this information.

<sup>b</sup> ADF&G test fishery.

<sup>c</sup> Season total include information not provided by individual date due to confidentiality requirements.

Table 34.—Value of the commercial salmon harvest, by species, and average value per active permit, in dollars, in the Chignik Management Area, 1970–2016.

| Year | Chinook            |                      | Sockeye            |                      | Coho               |                      | Pink               |                      | Chum               |                      | Total value | Number of permits <sup>c</sup> | Value per permit |
|------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|-------------|--------------------------------|------------------|
|      | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> |             |                                |                  |
| 1970 | 6,129              | 77                   | 2,190,272          | 27,378               | 18,397             | 230                  | 635,673            | 7,946                | 376,025            | 4,700                | 3,226,496   | 80                             | 40,331           |
| 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              | 25                   | 825,498            | 10,319               | 35,699             | 446                  | 48,401             | 605                  | 87,759             | 1,097                | 999,385     | 80                             | 12,492           |
| 1973 | 5,255              | 67                   | 3,030,057          | 38,355               | 73,663             | 932                  | 20,610             | 261                  | 10,180             | 129                  | 3,139,765   | 79                             | 39,744           |
| 1974 | 2,941              | 31                   | 3,618,781          | 38,498               | 31,933             | 340                  | 64,069             | 682                  | 51,125             | 544                  | 3,768,849   | 94                             | 40,094           |
| 1975 | 6,561              | 76                   | 1,384,271          | 16,096               | 213,539            | 2,483                | 104,115            | 1,211                | 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             | 214                  | 14,553,720         | 165,383              | 104,819            | 1,191                | 920,881            | 10,465               | 368,066            | 4,183                | 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             | 311                  | 11,345,503         | 110,151              | 710,192            | 6,895                | 2,622,269          | 25,459               | 126,866            | 1,232                | 14,836,880  | 103                            | 144,047          |
| 1980 | 67,657             | 651                  | 5,532,290          | 53,195               | 520,655            | 5,006                | 1,477,060          | 14,203               | 1,061,963          | 10,211               | 8,659,625   | 104                            | 83,266           |
| 1981 | 75,231             | 716                  | 17,262,119         | 164,401              | 439,900            | 4,190                | 1,881,334          | 17,917               | 2,431,421          | 23,156               | 22,090,005  | 105                            | 210,381          |
| 1982 | 75,276             | 731                  | 13,038,510         | 126,587              | 1,782,027          | 17,301               | 578,184            | 5,613                | 1,356,597          | 13,171               | 16,830,594  | 103                            | 163,404          |
| 1983 | 96,159             | 943                  | 10,728,088         | 105,177              | 219,650            | 2,153                | 240,171            | 2,355                | 421,713            | 4,134                | 11,705,781  | 102                            | 114,763          |
| 1984 | 114,502            | 1,145                | 20,402,076         | 204,021              | 759,972            | 7,600                | 330,916            | 3,309                | 146,024            | 1,460                | 21,753,490  | 100                            | 217,535          |
| 1985 | 67,088             | 633                  | 7,997,834          | 75,451               | 1,471,418          | 13,881               | 140,076            | 1,321                | 59,475             | 561                  | 8,735,891   | 106                            | 82,414           |
| 1986 | 84,800             | 831                  | 16,882,290         | 165,513              | 667,740            | 6,546                | 356,147            | 3,492                | 456,546            | 4,476                | 18,447,523  | 102                            | 180,858          |
| 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  | 103                            | 257,287          |
| 1988 | 286,740            | 2,839                | 14,350,354         | 142,083              | 4,153,424          | 41,123               | 6,771,266          | 67,042               | 2,189,293          | 21,676               | 27,751,077  | 101                            | 274,763          |
| 1989 | 78,999             | 790                  | 13,047,378         | 130,474              | 436,892            | 4,369                | 32,994             | 330                  | 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             | 490                  | 11,002,784         | 107,870              | 650,626            | 6,379                | 402,916            | 3,950                | 502,860            | 4,930                | 12,609,213  | 102                            | 123,620          |
| 1992 | 193,326            | 1,914                | 12,552,025         | 124,277              | 1,323,107          | 13,100               | 811,882            | 8,038                | 414,005            | 4,099                | 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            | 2,288                | 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          |
| 1997 | 20,642             | 211                  | 4,860,589          | 49,598               | 453,905            | 4,632                | 348,042            | 3,551                | 239,400            | 2,443                | 5,922,577   | 98                             | 60,434           |
| 1998 | 31,934             | 376                  | 6,631,192          | 78,014               | 397,413            | 4,675                | 310,323            | 3,651                | 137,647            | 1,619                | 7,508,509   | 85                             | 88,335           |

-continued-

Table 34.–Page 2 of 2.

| Year              | Chinook            |                      | Sockeye            |                      | Coho               |                      | Pink               |                      | Chum               |                      | Total value | Number of permits <sup>c</sup> | Value per permit |
|-------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|-------------|--------------------------------|------------------|
|                   | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> | Total <sup>a</sup> | Average <sup>b</sup> |             |                                |                  |
| 1999              | 27,212             | 302                  | 21,132,550         | 234,806              | 170,931            | 1,899                | 578,861            | 6,432                | 118,547            | 1,317                | 22,028,101  | 90                             | 244,757          |
| 2000              | 16,336             | 165                  | 11,812,368         | 119,317              | 283,061            | 2,859                | 106,470            | 1,075                | 93,030             | 940                  | 12,311,264  | 99                             | 124,356          |
| 2001              | 12,205             | 133                  | 7,419,339          | 80,645               | 263,160            | 2,860                | 366,714            | 3,986                | 209,239            | 2,274                | 8,270,657   | 92                             | 89,898           |
| 2002              | 3,516              | 36                   | 4,564,214          | 46,103               | 36,078             | 364                  | 10,333             | 104                  | 40,671             | 411                  | 4,654,812   | 99                             | 47,018           |
| 2003              | 20,212             | 202                  | 5,283,962          | 52,840               | 173,625            | 1,736                | 182,100            | 1,821                | 71,140             | 711                  | 5,731,039   | 100                            | 57,310           |
| 2004              | 26,191             | 262                  | 3,568,350          | 35,684               | 59                 | 1                    | 835                | 8                    | 647                | 6                    | 3,596,082   | 100                            | 35,961           |
| 2005              | 36,060             | 377                  | 6,314,036          | 64,429               | 11,280             | 115                  | 55,070             | 562                  | 10,917             | 111                  | 6,427,363   | 98                             | 65,585           |
| 2006              | 26,895             | 560                  | 4,703,317          | 97,986               | 105,132            | 2,190                | 126,309            | 2,631                | 81,123             | 1,690                | 5,042,776   | 48                             | 105,058          |
| 2007              | 26,176             | 476                  | 4,154,210          | 75,531               | 195,754            | 3,559                | 1,034,322          | 18,806               | 162,089            | 2,947                | 5,572,550   | 55                             | 101,319          |
| 2008              | 15,249             | 282                  | 4,121,611          | 76,326               | 778,282            | 14,413               | 1,810,965          | 33,536               | 533,358            | 9,877                | 7,259,465   | 54                             | 134,435          |
| 2009              | 30,714             | 558                  | 7,058,058          | 128,328              | 220,824            | 4,015                | 800,530            | 14,555               | 520,791            | 9,469                | 8,630,917   | 55                             | 156,926          |
| 2010              | 160,076            | 2,463                | 9,549,462          | 146,915              | 566,191            | 8,711                | 565,941            | 8,707                | 1,774,763          | 27,304               | 12,616,433  | 65                             | 194,099          |
| 2011              | 57,524             | 899                  | 21,469,153         | 335,456              | 278,391            | 4,350                | 1,040,264          | 16,254               | 919,586            | 14,369               | 23,764,918  | 64                             | 371,327          |
| 2012              | 47,612             | 690                  | 12,803,505         | 185,558              | 97,430             | 1,412                | 146,011            | 2,116                | 634,705            | 9,199                | 13,729,262  | 69                             | 198,975          |
| 2013              | 37,620             | 495                  | 21,960,018         | 288,948              | 86,953             | 1,144                | 868,071            | 11,422               | 385,172            | 5,068                | 23,337,834  | 76                             | 307,077          |
| 2014              | 66,875             | 955                  | 6,040,512          | 86,293               | 434,394            | 6,206                | 286,942            | 4,099                | 185,016            | 2,643                | 7,013,739   | 70                             | 100,196          |
| 2015              | 72,439             | 1,020                | 6,606,379          | 93,048               | 99,469             | 1,401                | 934,971            | 13,169               | 164,012            | 2,310                | 7,877,270   | 71                             | 110,947          |
| 2016 <sup>d</sup> | 176,800            | 2,562                | 8,044,321          | 116,584              | 158,010            | 2,290                | 95,776             | 1,388                | 161,028            | 2,334                | 8,635,935   | 69                             | 125,158          |
| Averages          |                    |                      |                    |                      |                    |                      |                    |                      |                    |                      |             |                                |                  |
| 1996–2015         | 38,026             | 536                  | 9,134,669          | 120,111              | 254,978            | 3,551                | 479,895            | 7,337                | 315,707            | 4,752                | 10,223,275  | 79                             | 136,286          |
| 2006–2015         | 54,118             | 840                  | 9,846,622          | 151,439              | 286,282            | 4,740                | 761,433            | 12,530               | 536,061            | 8,488                | 11,484,516  | 63                             | 178,036          |
| 2011–2015         | 56,414             | 812                  | 13,775,913         | 197,860              | 199,327            | 2,903                | 655,252            | 9,412                | 457,698            | 6,718                | 15,144,605  | 70                             | 217,704          |

<sup>a</sup> Total value of commercial catch in dollars, by species. Total value does not include home pack or department test fishery.

<sup>b</sup> Average value of commercial catch in dollars, by species. Average value does not include home pack or department test fishery.

<sup>c</sup> Includes the number of commercial permits that received income from the harvest. These figures do not include department test fishery harvests.

<sup>d</sup> Values represent the initial price paid, and do not include any postseason adjustments by any processor. The average 2016 exvessel prices per pound were as follows: Chinook – \$1.14, sockeye – \$0.98, coho – \$0.24, pink – \$0.17, chum – \$0.20.

Table 35.—Historical number of subsistence permits issued and returned and estimated subsistence salmon harvest, by species and year, 1980–2015.

| Year              | Permits |          | Estimated Salmon Harvest |         |       |      |       | Total  |
|-------------------|---------|----------|--------------------------|---------|-------|------|-------|--------|
|                   | Issued  | Returned | Chinook                  | Sockeye | Coho  | Chum | Pink  |        |
| 1980              | 82      | 37       | 6                        | 12,475  | 32    | 169  | 478   | 13,160 |
| 1981              | 29      | 7        | 0                        | 2,049   | 0     | 0    | 0     | 2,049  |
| 1982              | 59      | 15       | 3                        | 8,532   | 12    | 0    | 2     | 8,549  |
| 1983              | 32      | 21       | 0                        | 3,078   | 1,319 | 850  | 1,250 | 6,497  |
| 1984              | 77      | 64       | 23                       | 8,747   | 464   | 204  | 330   | 9,768  |
| 1985              | 59      | 48       | 1                        | 7,177   | 50    | 25   | 26    | 7,279  |
| 1986              | 74      | 38       | 4                        | 10,347  | 205   | 77   | 98    | 10,731 |
| 1987              | 2       | 1        | 10                       | 7,021   | 278   | 204  | 261   | 7,774  |
| 1988              | 80      | 34       | 9                        | 9,073   | 1,455 | 142  | 54    | 10,733 |
| 1989              | 68      | 23       | 24                       | 7,551   | 384   | 147  | 81    | 8,187  |
| 1990              | 72      | 23       | 103                      | 8,099   | 210   | 115  | 470   | 8,997  |
| 1991              | 95      | 58       | 42                       | 11,483  | 13    | 81   | 275   | 11,894 |
| 1992              | 98      | 19       | 55                       | 8,648   | 709   | 145  | 305   | 9,862  |
| 1993              | 201     | 141      | 122                      | 14,710  | 3,765 | 642  | 1,265 | 20,504 |
| 1994              | 219     | 122      | 165                      | 13,978  | 4,055 | 382  | 1,720 | 20,300 |
| 1995              | 111     | 95       | 98                       | 9,563   | 1,191 | 150  | 723   | 11,725 |
| 1996              | 119     | 104      | 48                       | 7,357   | 2,126 | 355  | 2,204 | 12,090 |
| 1997              | 126     | 103      | 28                       | 13,442  | 2,678 | 840  | 2,035 | 19,023 |
| 1998              | 104     | 72       | 91                       | 7,750   | 1,390 | 186  | 1,007 | 10,424 |
| 1999              | 106     | 88       | 243                      | 9,040   | 1,679 | 136  | 1,191 | 12,289 |
| 2000              | 130     | 112      | 163                      | 9,561   | 1,802 | 517  | 1,185 | 13,228 |
| 2001              | 135     | 122      | 171                      | 8,633   | 1,859 | 213  | 2,787 | 13,663 |
| 2002              | 120     | 86       | 74                       | 10,092  | 1,401 | 23   | 390   | 11,980 |
| 2003              | 146     | 127      | 267                      | 10,989  | 2,256 | 286  | 1,597 | 15,395 |
| 2004              | 104     | 57       | 88                       | 7,029   | 1,981 | 202  | 1,047 | 10,347 |
| 2005              | 119     | 100      | 224                      | 8,171   | 2,112 | 353  | 730   | 11,590 |
| 2006              | 113     | 79       | 258                      | 8,079   | 1,539 | 275  | 1,035 | 11,186 |
| 2007              | 128     | 83       | 84                       | 10,191  | 1,936 | 165  | 996   | 13,372 |
| 2008              | 89      | 69       | 41                       | 7,189   | 877   | 57   | 619   | 8,783  |
| 2009 <sup>a</sup> | 95      | 82       | 104                      | 6,785   | 1,174 | 137  | 707   | 8,907  |
| 2010 <sup>a</sup> | 124     | 90       | 188                      | 8,148   | 1,820 | 222  | 656   | 11,034 |
| 2011              | 95      | 76       | 52                       | 10,578  | 1,458 | 355  | 1,289 | 13,732 |
| 2012 <sup>a</sup> | 106     | 87       | 116                      | 5,607   | 1,488 | 220  | 810   | 8,241  |
| 2013 <sup>a</sup> | 112     | 96       | 79                       | 6,588   | 916   | 164  | 686   | 8,433  |
| 2014              | 113     | 101      | 148                      | 7,855   | 1,401 | 207  | 339   | 9,950  |
| 2015 <sup>a</sup> | 109     | 100      | 183                      | 7,615   | 1,342 | 181  | 729   | 10,050 |
| Averages          |         |          |                          |         |       |      |       |        |
| 1995–2014         | 115     | 91       | 128                      | 8,632   | 1,654 | 253  | 1,102 | 11,770 |
| 2005–2014         | 109     | 86       | 129                      | 7,919   | 1,472 | 216  | 787   | 10,523 |
| 2010–2014         | 110     | 90       | 117                      | 7,755   | 1,417 | 234  | 756   | 10,278 |

Source: Alaska Department of Fish and Game, Division of Subsistence, Alaska Subsistence Fisheries Database.

<sup>a</sup> From 1993–2008 and in 2011, postseason household surveys were conducted to supplement harvest data collected through returned permits. Limited budgets prevented administering the surveys for 2009, 2010, and 2012, probably resulting in an underestimate of subsistence harvests because not all subsistence fishing households obtained a permit. To compensate for this underestimate, the average annual harvest for the period 1999–2008 and 2011 reported during postseason surveys was added to harvests from returned permits to estimate the total subsistence harvest for 2009 and 2010, 2012, 2013, and 2015.

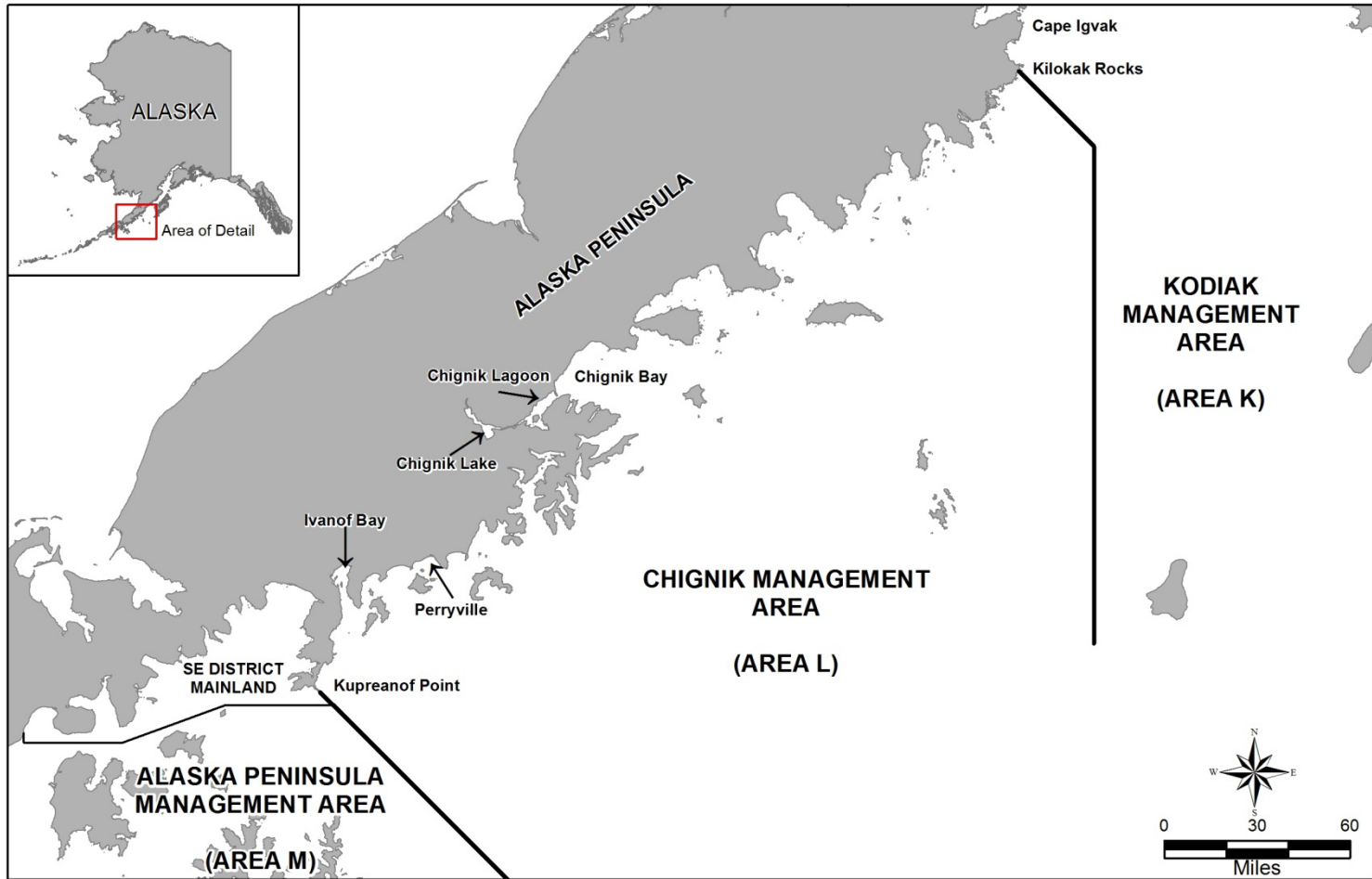


Figure 1.—Map of the Alaska Peninsula illustrating the relative locations of the Chignik, Kodiak, and Alaska Peninsula management areas.

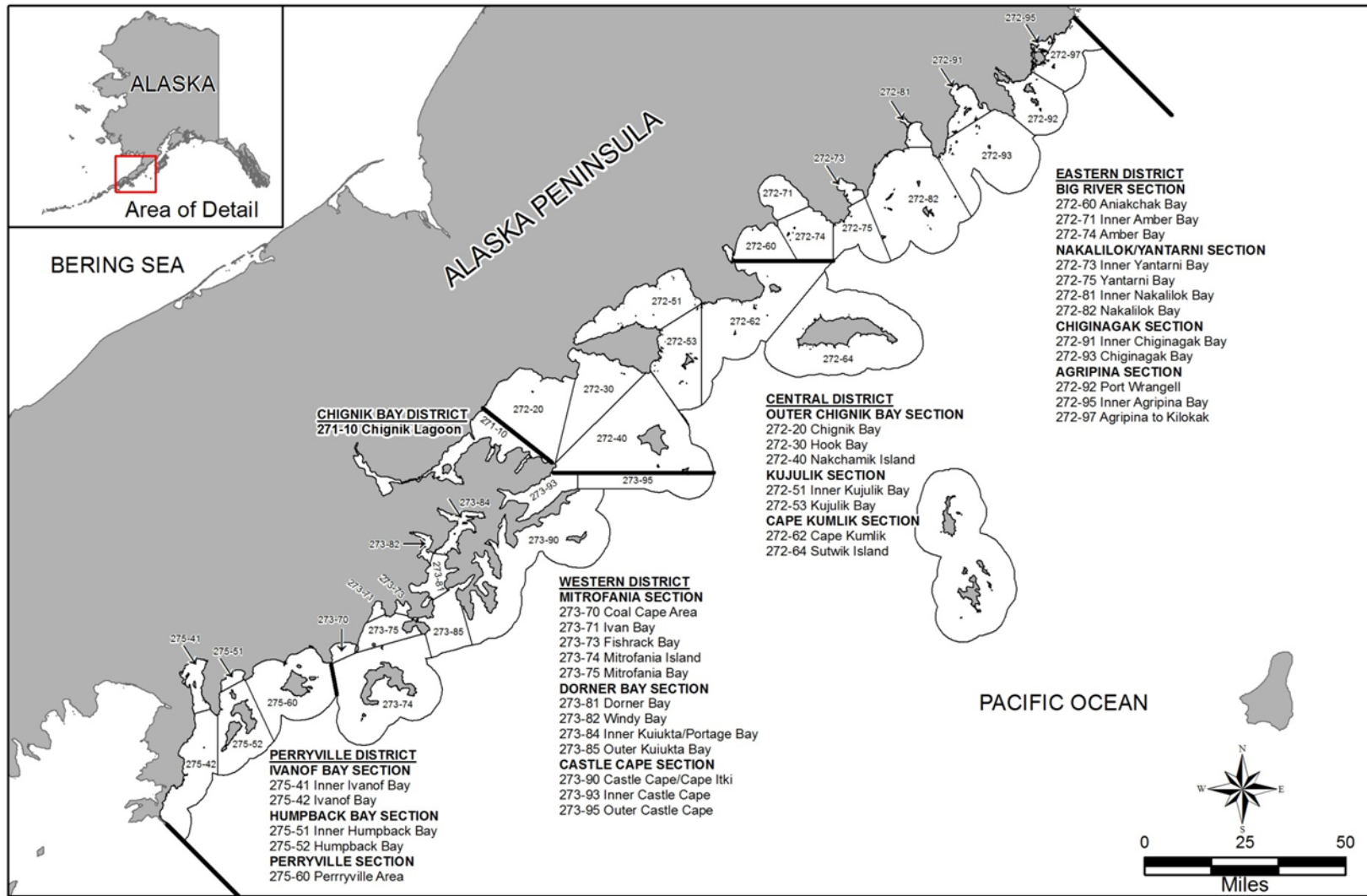


Figure 2.—Map of the Chignik Management Area illustrating district and section boundaries and statistical areas.





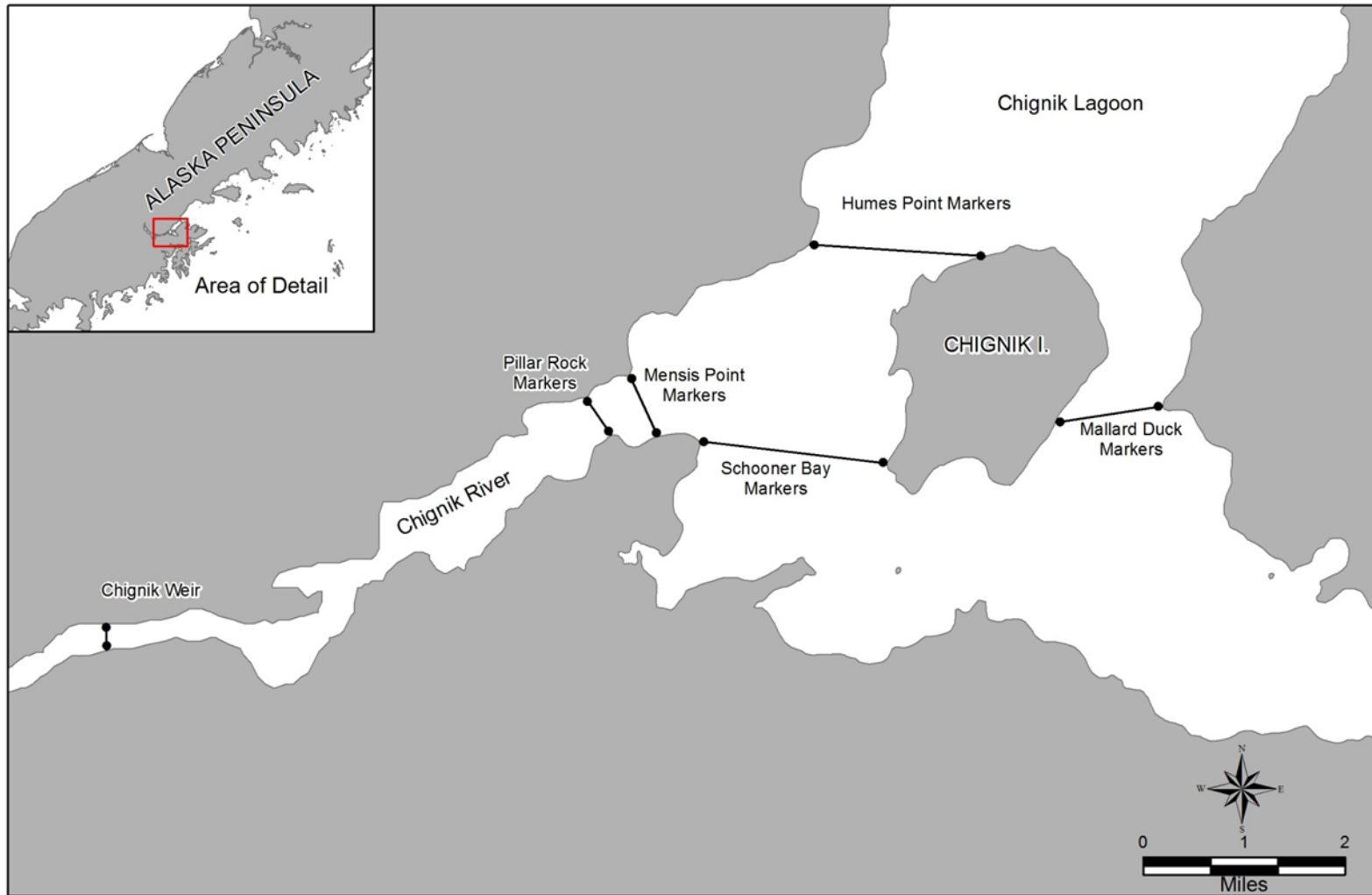


Figure 4.—Map of upper Chignik Lagoon showing the location of the Pillar Rock, Mensis Point, Humes Point, Mallard Duck, and Schooner Bay marker locations.

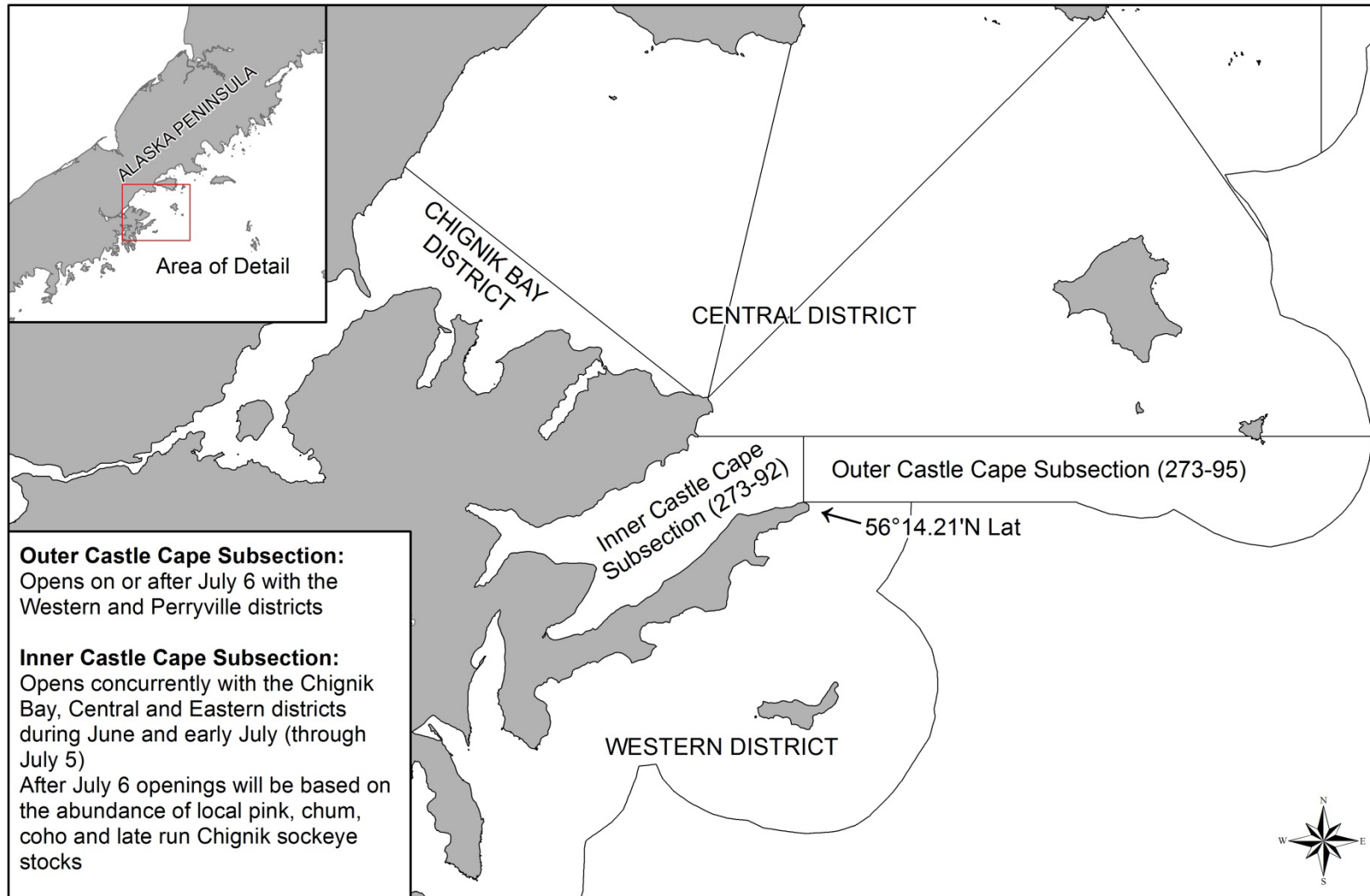


Figure 5.—Map depicting the Inner (273-93) and Outer (273-95) Castle Cape Sections of the Western District.

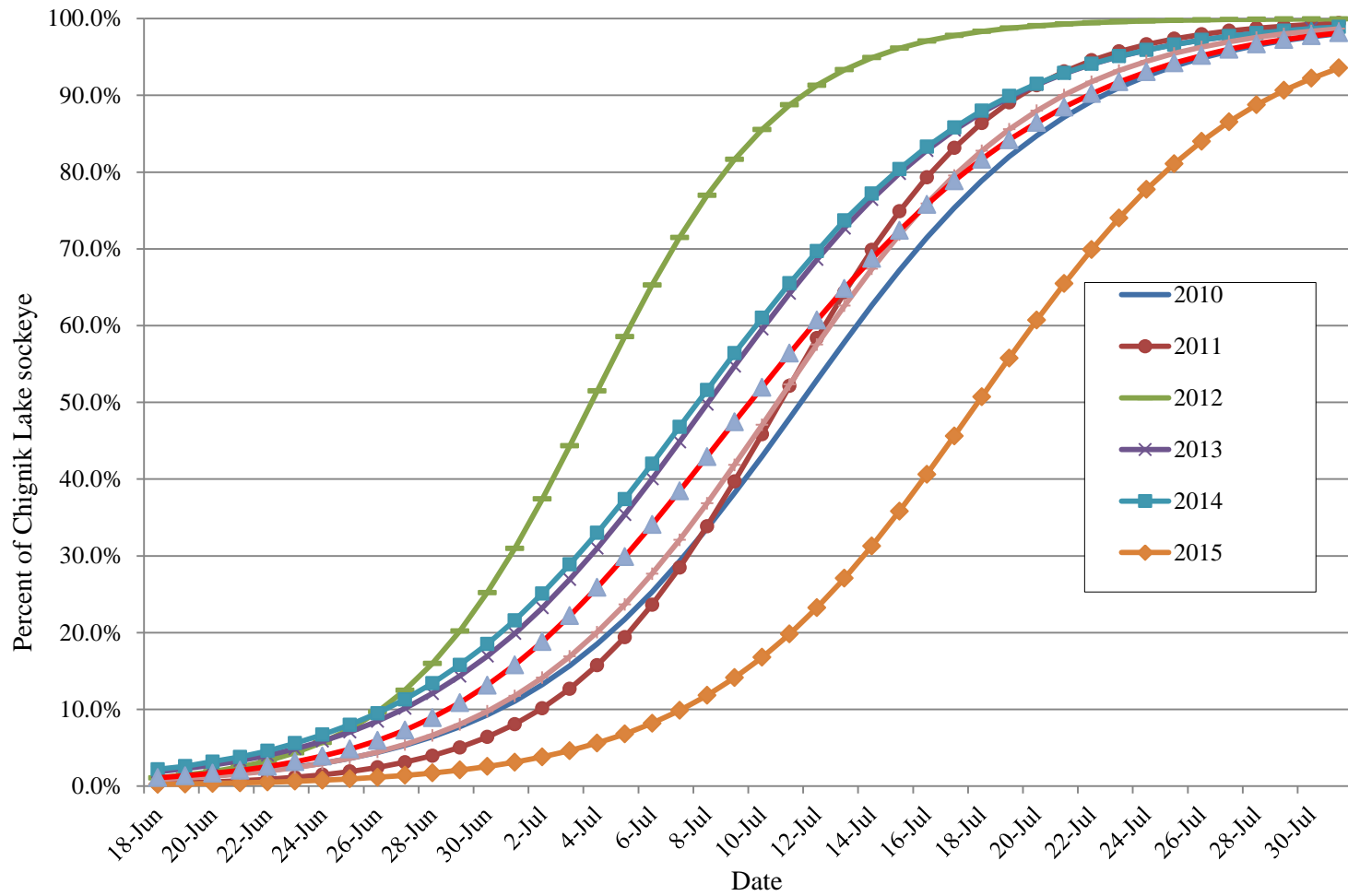


Figure 6.—Estimated proportional escapement of Chignik Lake (late run) sockeye salmon from inseason mixed-stock genetic analysis, 2010–2016.

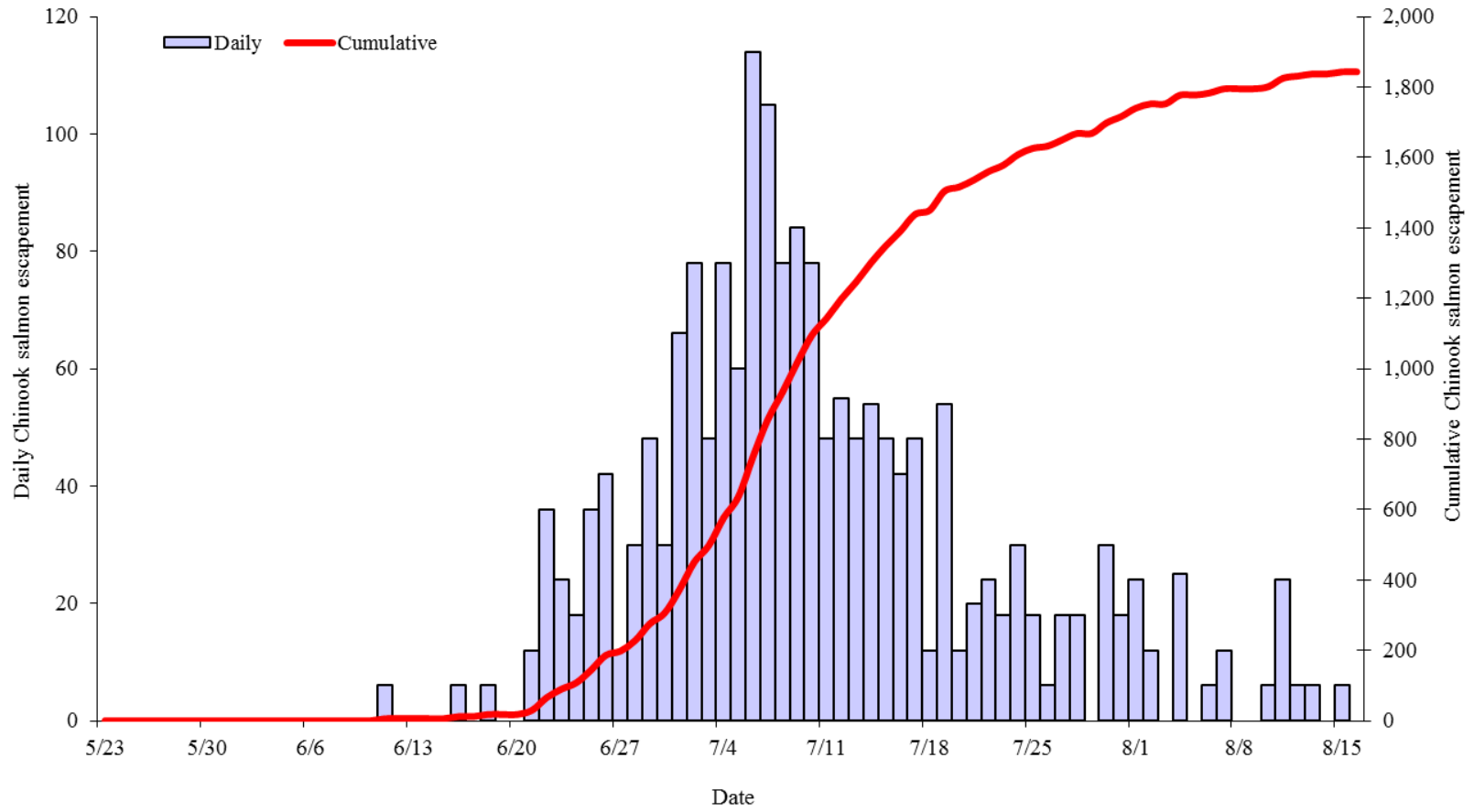


Figure 7.—Chignik River estimated daily and cumulative Chinook salmon escapement, 2016.

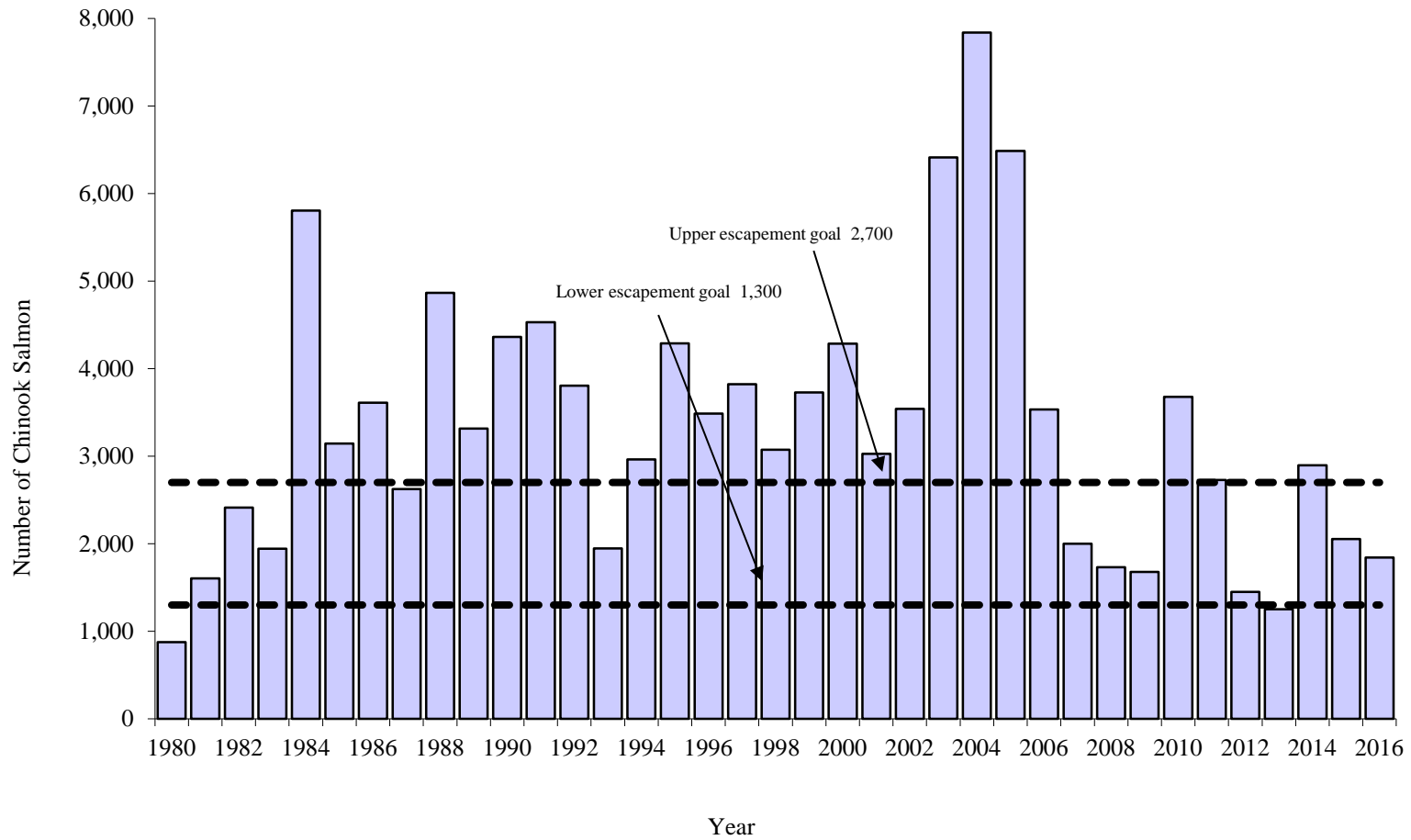


Figure 8.—Chignik River Chinook salmon escapement compared to the current escapement goal range, by year, 1980–2016.

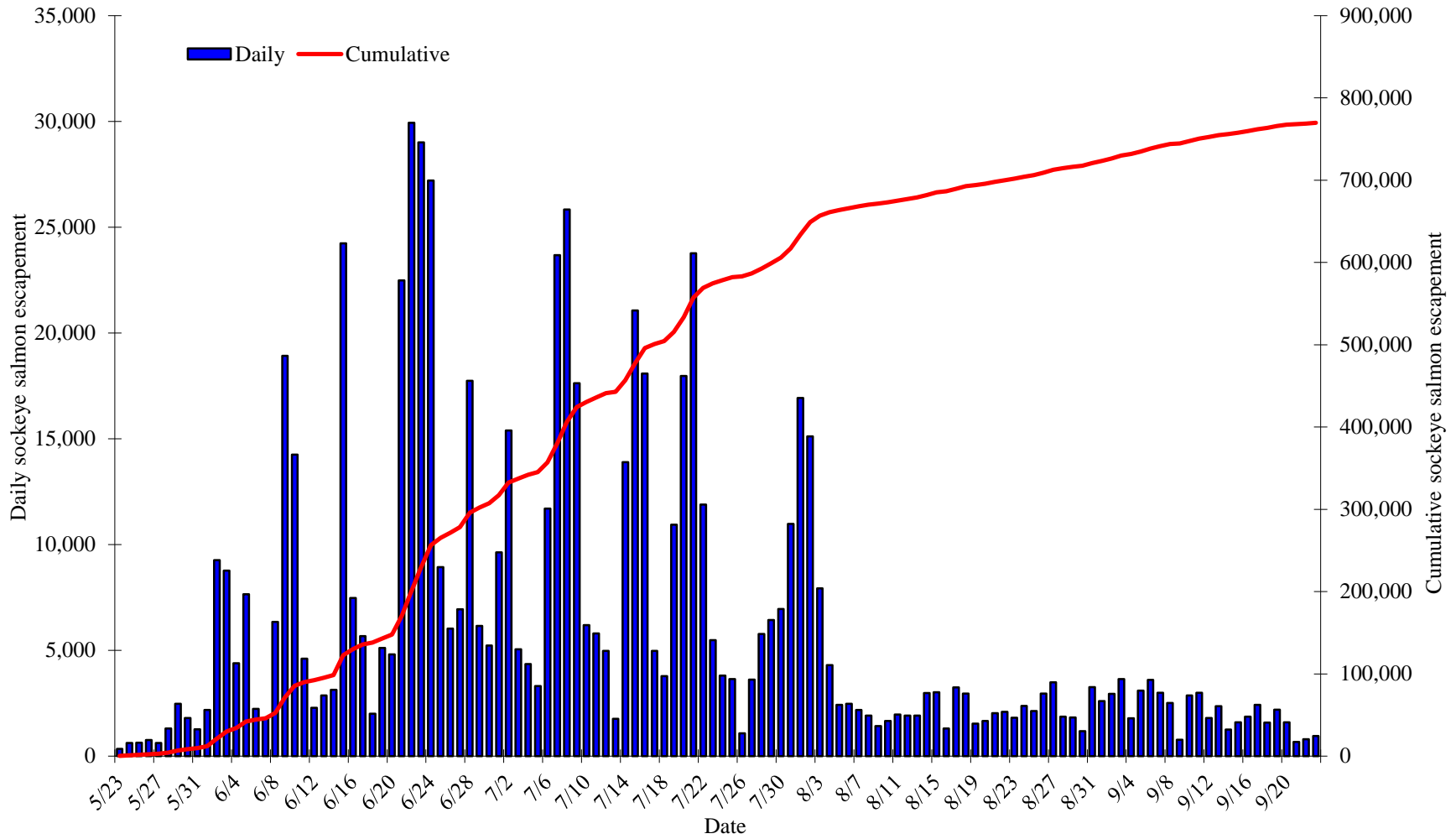


Figure 9.—Chignik River sockeye salmon daily and cumulative escapement including weir enumeration (5/23–9/12) and DIDSON daily estimates (9/13–9/23), 2016.

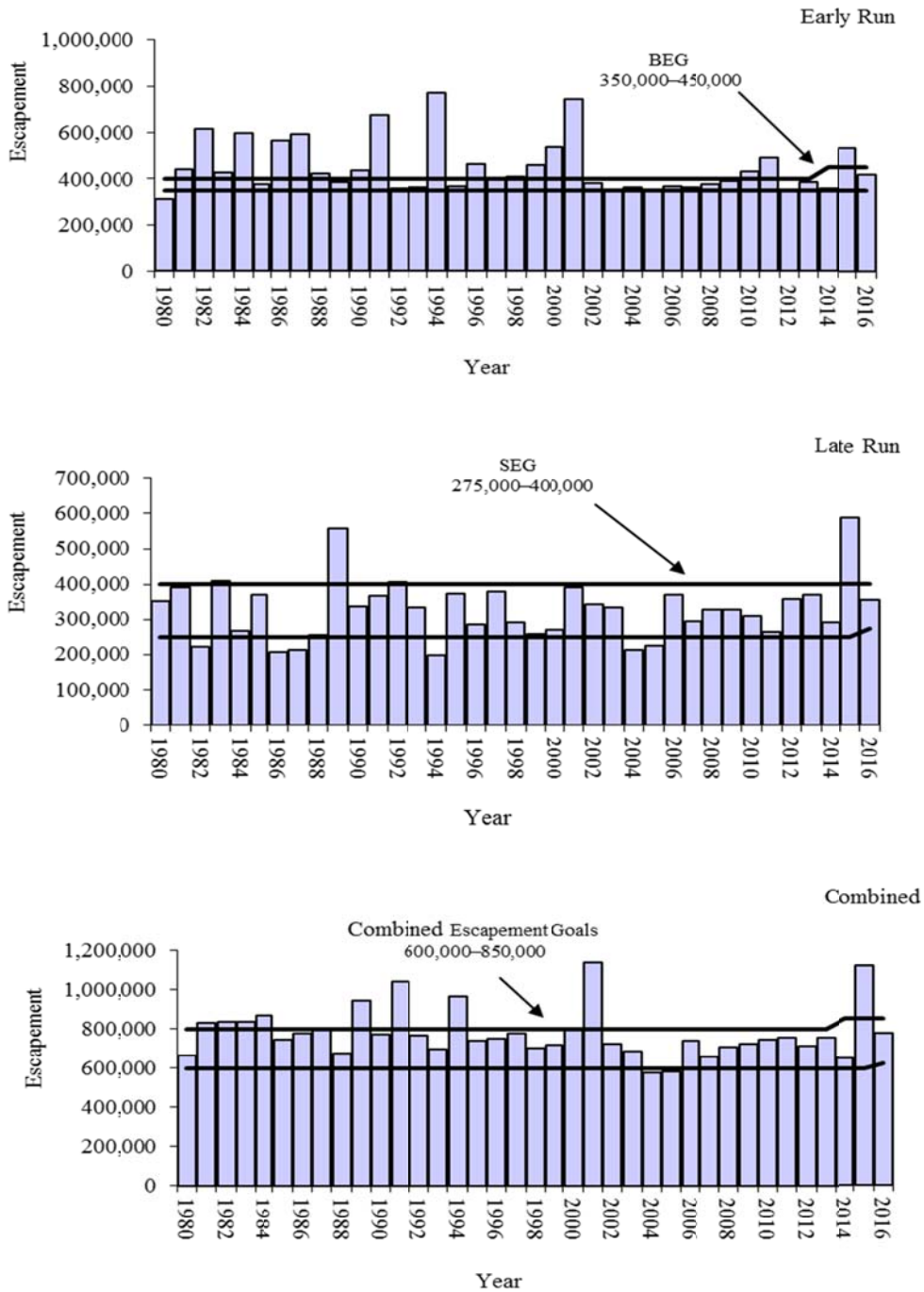


Figure 10.—Chignik River sockeye salmon early, late, and combined run escapements 1980–2016, compared to established escapement goals (including a late run inriver run goal of 75,000).

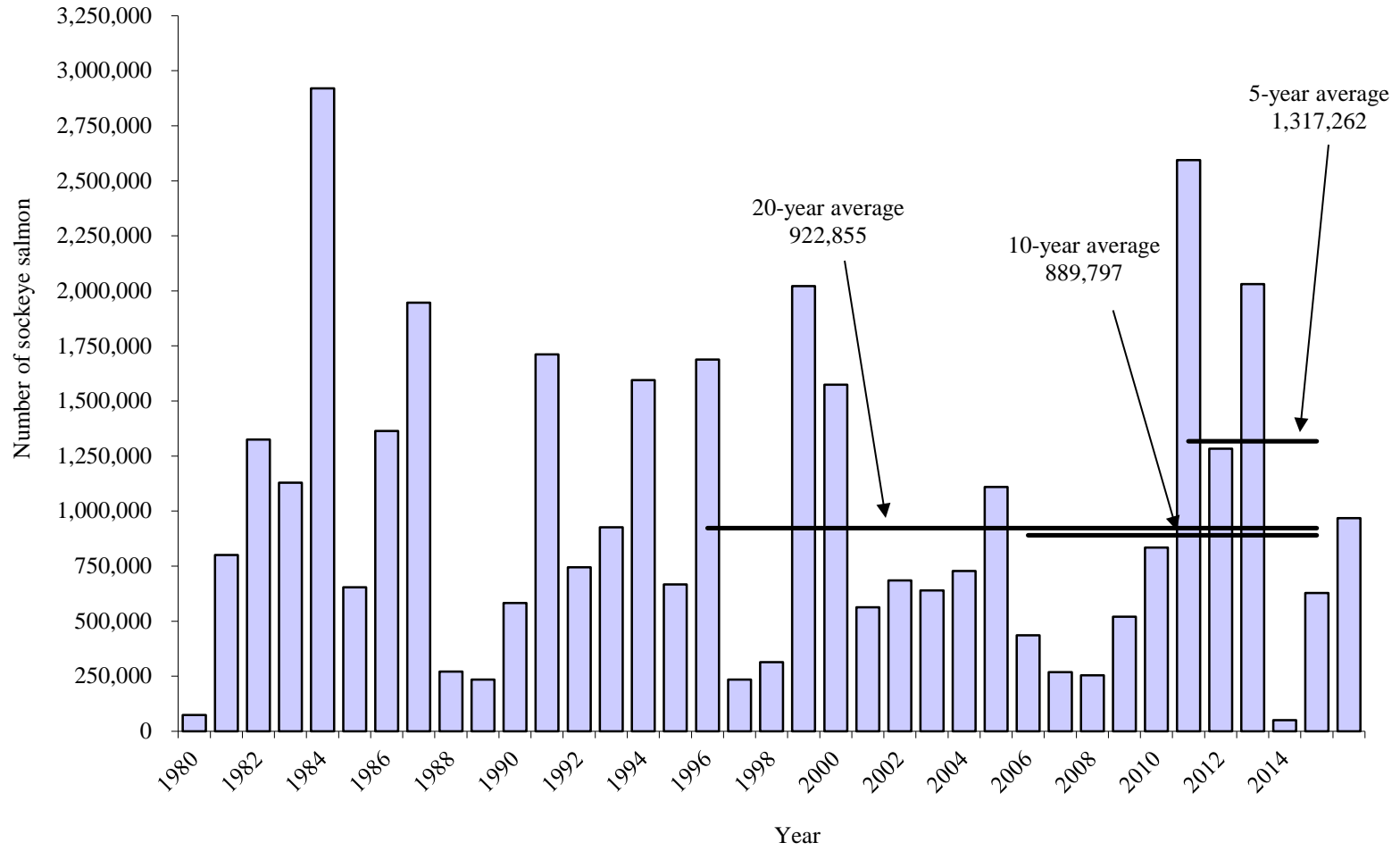


Figure 11.—Chignik-bound sockeye salmon early-run harvest, 1980–2016.



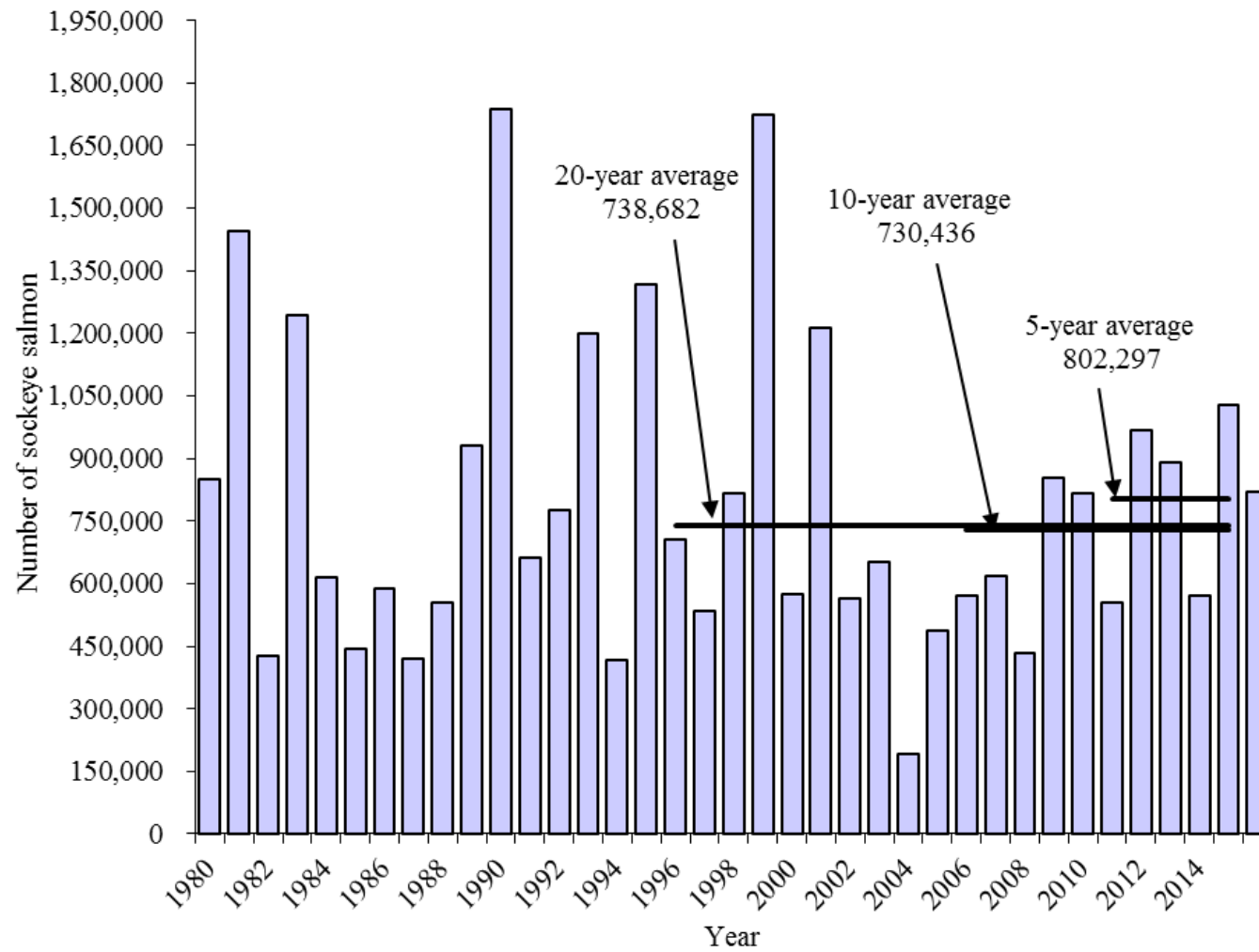


Figure 12.—Chignik-bound sockeye salmon late-run harvest, 1980–2016.

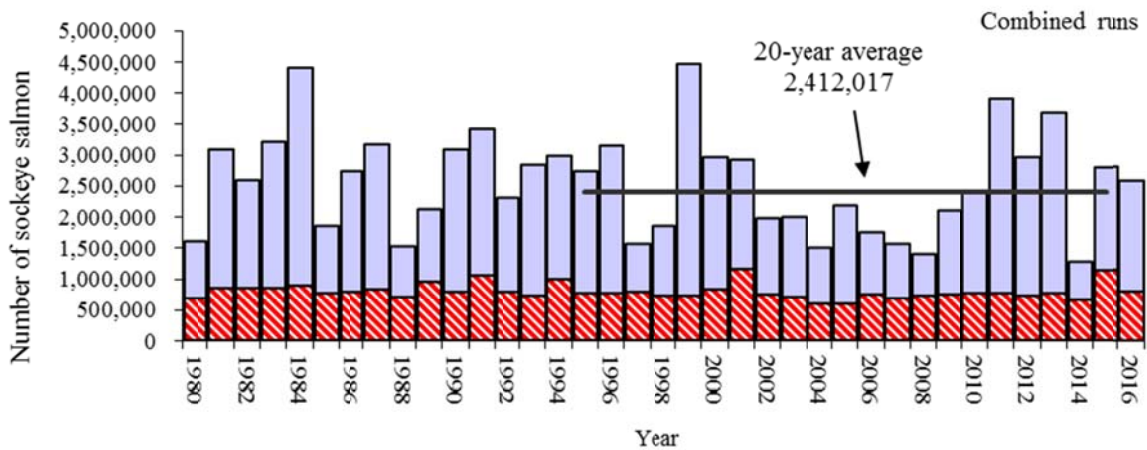
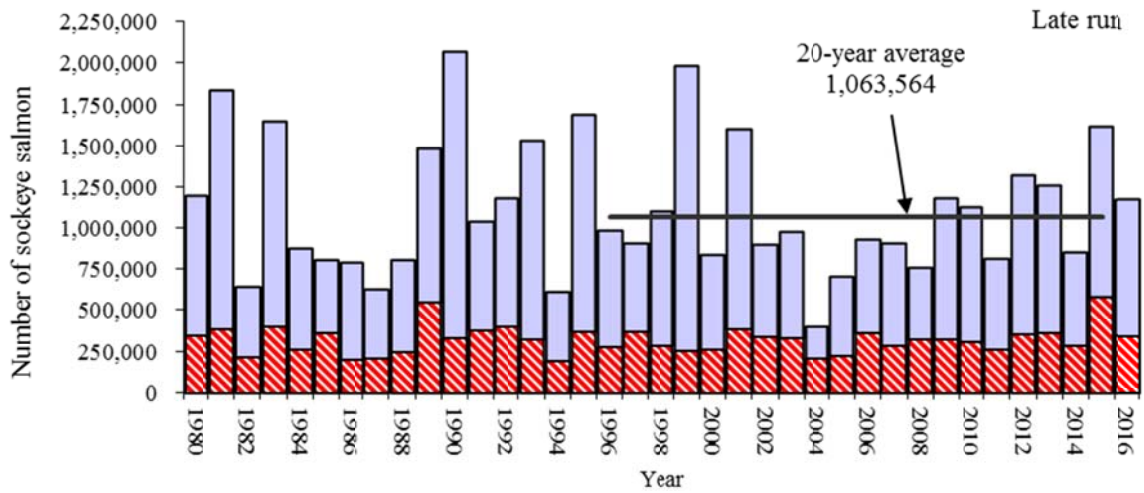
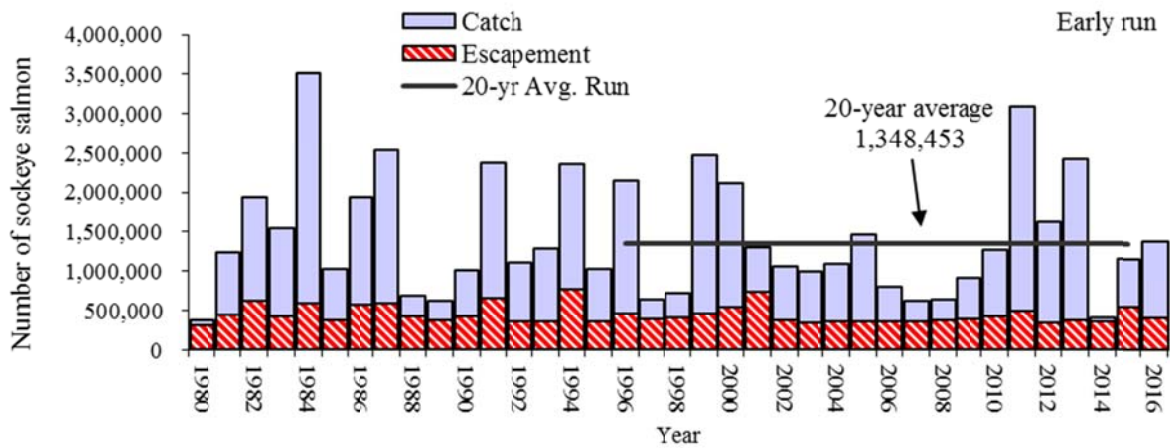


Figure 13.—Total sockeye salmon escapement and catch considered Chignik-bound including home pack, the department's test fishery harvest, and Cape Igvak and SEDM allocations, by year and run, 1980–2016.

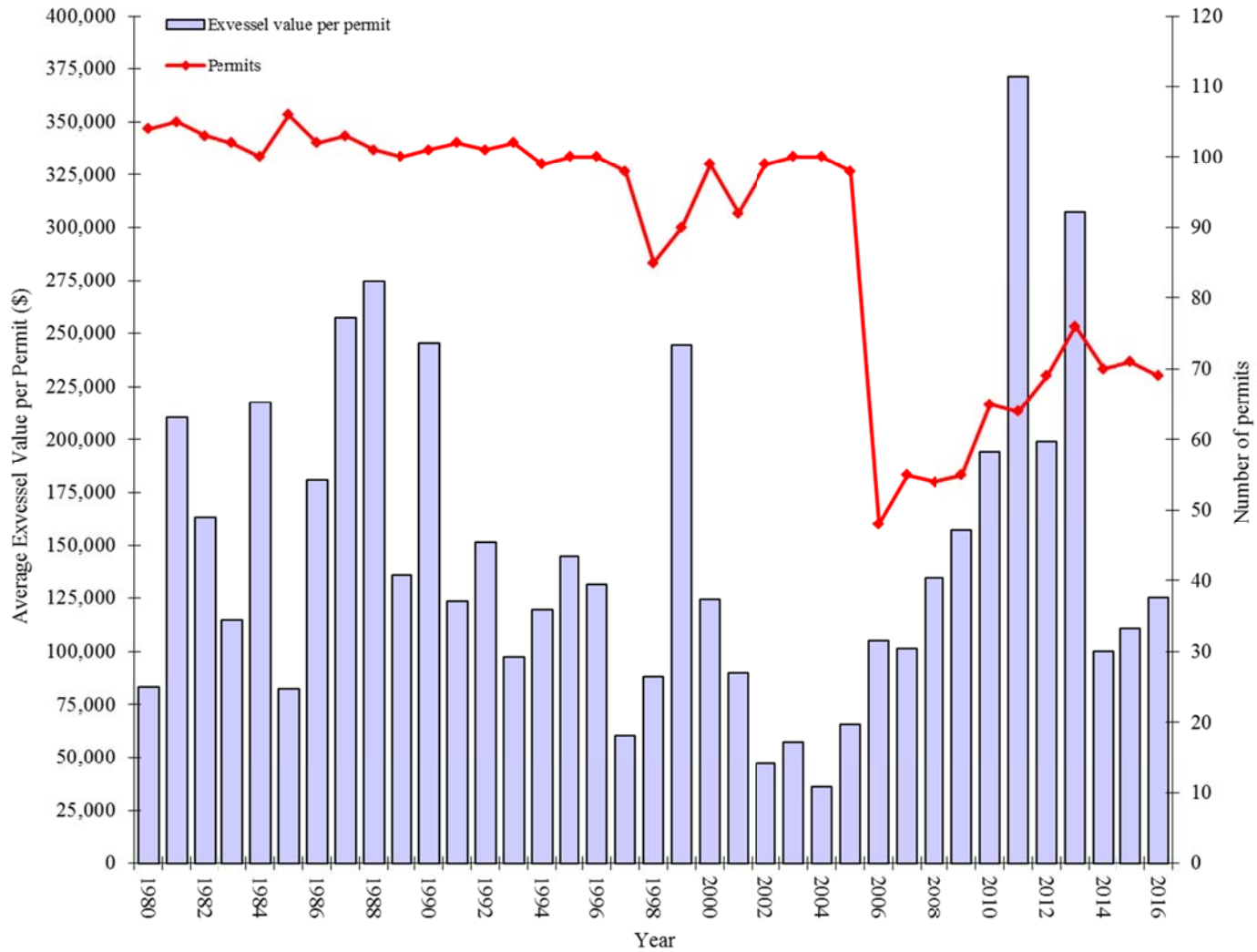


Figure 14.—Average exvessel value, in dollars, per permit and total permits fished by year 1980–2016.



**APPENDIX A. SUMMARY OF 2016 EMERGENCY ORDERS**

Appendix A1.–Summary of the 2016 Chignik Management Area emergency orders.

| E.O. Number  | Issued                | Effective             | Action taken  |
|--------------|-----------------------|-----------------------|---|
| 4-FS-L-01-16 | 1:00 PM<br>6/3/2016   | 4:00 PM<br>6/4/2016   | <b>Opens</b> the Chignik Bay, Central and Eastern districts as well as the Inner Castle Cape Subsection of the Western District for 48 hours from 4:00 PM Saturday, June 4 until 4:00 PM Monday, June 6.  |
| 4-FS-L-02-16 | 6:15 PM<br>6/5/2016   | 6:15 AM<br>6/6/2016   | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central and Eastern districts as well as the Inner Castle Cape Subsection of the Western District for 24 hours from 4:00 PM Monday, June 6 until 4:00 PM Tuesday, June 7.<br><b>Closed Waters</b> effective 6:15 AM Monday, June 6 salmon may only be taken northeast of Mensis Point.        |
| 4-FS-L-03-16 | 6:30 PM<br>6/9/2016   | 8:00 AM<br>6/10/2016  | <b>Opens</b> the Chignik Bay, Central, and Eastern district as well as the Inner Castle Cape Subsection of the Western District for 48 hours from 8:00 AM Friday, June 10 until 8:00 AM Sunday, June 12.  |
| 4-FS-L-04-16 | 4:15 PM<br>6/11/2016  | 8:00 AM<br>6/12/2016  | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central and Eastern districts as well as the Inner Castle Cape Subsection of the Western district for 24 hours from 8:00 AM Sunday, June 12 until 8:00 AM Monday, June 13.  |
| 4-FS-L-05-16 | 5:00 PM<br>6/12/2016  | 8:00 AM<br>6/13/2016  | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, and Eastern districts, as well as the Inner castle Cape Subsection of the Western Districts for 24 hours from 8:00 AM Monday, June 13 until 8:00 AM Tuesday, June 14.  |
| 4-FS-L-06-16 | 12:00 PM<br>6/14/2016 | 12:00 PM<br>6/15/2016 | <b>Opens</b> the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 72 hours from 12:00 PM Wednesday, June 15 until 12:00 PM Saturday, June 18. The Western District will open for 48 hours from 12:00 PM Thursday, June 16 until 12:00 PM Saturday, June 18.  |
| 4-FS-L-07-16 | 9:15 AM<br>6/17/2016  | 12:00 PM<br>6/17/2016 | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 24 hours from 12:00 PM Saturday, June 18 until 12:00 PM Sunday, June 19.<br><b>Closed waters</b> effective 12:00 PM Friday, June 17 salmon may only be taken northeast of Mensis point. |
| 4-FS-L-08-16 | 9:15 AM<br>6/18/2016  | 12:00 PM<br>6/19/2016 | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 24 hours from 12:00 PM Sunday, June 19 until 12:00 PM Monday, June 20.   |

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Appendix A1.–Page 2 of 3.

| E.O. Number  | Issued               | Effective             | Action taken  |
|--------------|----------------------|-----------------------|---|
| 4-FS-L-09-16 | 1:15 PM<br>6/22/2016 | 5:00 AM<br>6/24/2016  | <b>Opens</b> the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 48 hours from 5:00 AM Friday, June 24 until 5:00 AM Sunday, June 26.   |
| 4-FS-L-10-16 | 9:15 AM<br>6/23/2016 | 5:00 AM<br>6/24/2016  | <b>Closed Waters</b> effective 5:00 AM Friday, June 24 salmon may only be taken northeast of Mensis Point.  |
| 4-FS-L-11-16 | 9:15 AM<br>6/25/2016 | 5:00 AM<br>6/26/2016  | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 19 hours from 5:00 AM Sunday, June 26 until 11:59 PM Sunday, June 26.  |
| 4-FS-L-12-16 | 6:15 PM<br>6/26/2016 | 10:00 AM<br>6/28/2016 | <b>Opens</b> the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 62 hours from 10:00 AM Tuesday, June 28 until 11:59 PM Thursday, June 30. The Western District will open for 48 hours from 12:01 AM Wednesday, June 29 until 11:59 PM Thursday, June 30. |
| 4-FS-L-13-16 | 9:15 AM<br>7/1/2016  | 3:00 PM<br>7/2/2016   | <b>Opens</b> the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 50 hours from 3:00 PM Saturday, July 2 until 5:00 PM Monday, July 4.   |
| 4-FS-L-14-16 | 9:15 AM<br>7/2/2016  | 3:00 PM<br>7/2/2016   | <b>Closed Waters</b> effective 3:00 PM Saturday, July 2 salmon may only be taken northeast of Mensis Point.   |
| 4-FS-L-15-16 | 6:15 PM<br>7/3/2016  | 5:00 PM<br>7/4/2016   | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central and Eastern districts, as well as the Inner Castle Cape Subsection of the Western District for 25 hours from 5:00 PM Monday, July 4 until 6:00 PM Tuesday, July 5.  |
| 4-FS-L-16-16 | 5:15 PM<br>7/8/2016  | 7:30 AM<br>7/9/2016   | <b>Opens</b> the Chignik Bay, Central, Western and Perryville districts for 50 hours from 7:30 AM Saturday, July 9 until 9:30 AM Monday, July 11.   |
| 4-FS-L-17-16 | 9:15 AM<br>7/10/2016 | 9:30 AM<br>7/11/2016  | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, Western and Perryville districts for 25 hours from 9:30 AM Monday, July 11 until 10:30 AM Tuesday, July 12.  |
| 4-FS-L-18-16 | 9:15 AM<br>7/11/2016 | 12:01 AM<br>7/12/2016 | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, Western and Perryville districts for 25 hours from 10:30 AM Tuesday, July 12 until 11:30 AM Wednesday, July 13.<br><b>Closed Waters</b> effective 12:01 AM Tuesday, July 12 salmon may only be taken northeast of Mensis Point.      |

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Appendix A1.–Page 3 of 3.

| E.O. Number  | Issued                | Effective             | Action taken  |
|--------------|-----------------------|-----------------------|---|
| 4-FS-L-19-16 | 6:15 PM<br>7/12/2016  | 12:01 AM<br>7/14/2016 | <b>Opens</b> certain statistical areas within the CMA to target local pink and chum harvest for 48 hours from 12:01 AM Thursday, July 14 until 11:59 PM Friday, July 15. The areas are as follows with the statistical code; Kujulik Bay (272-51), Ivan Bay (273-71), Fish Rack Bay (273-73), Dorner Bay (273-84), Humpback Bay (275-51), and Ivanof Bay (275-41).    |
| 4-FS-L-20-16 | 12:15 PM<br>7/15/2016 | 3:00 PM<br>7/16/2016  | <b>Opens</b> the Chignik Bay, Central, Western and Perryville districts from 3:00 PM Saturday, July 16 until 5:00 PM Monday, July 18.   |
| 4-FS-L-21-16 | 6:15 PM<br>7/20/2016  | 6:00 AM<br>7/22/2016  | <b>Opens</b> the Chignik Bay, Central, Western and Perryville districts from 6:00 AM Friday, July 22 until 6:00 AM Sunday, July 24.   |
| 4-FS-L-22-16 | 9:15 AM<br>7/23/2016  | 6:00 AM<br>7/24/2016  | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, Western and Perryville districts for 36 hours from 6:00 AM Sunday, July 24 until 11:59 PM Monday, July 25.   |
| 4-FS-L-23-16 | 9:15 AM<br>7/25/2016  | 11:59 PM<br>7/25/2016 | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, Western and Perryville districts for 24 hours from 11:59 PM Monday, July 25 until 11:59 PM Tuesday, July 26.   |
| 4-FS-L-24-16 | 6:15 PM<br>8/1/2016   | 4:30 AM<br>8/3/2016   | <b>Opens</b> the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District for 50 hours from 4:30 AM Wednesday, August 3 until 6:30 AM Friday, August 5.   |
| 4-FS-L-25-16 | 9:15 AM<br>8/4/2016   | 5:30 PM<br>8/4/2016   | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District for 50 hours from 6:30 AM Friday, August 5 until 8:30 AM Sunday, August 7.<br><b>Closed Waters</b> effective 5:30 PM Thursday, August 4 salmon may only be taken northeast of Mensis Point. |
| 4-FS-L-26-16 | 9:15 AM<br>8/6/2016   | 8:30 AM<br>8/7/2016   | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District for 61 hours from 8:30 AM Sunday, August 7 until 9:30 PM Tuesday, August 9.   |
| 4-FS-L-27-16 | 6:15 PM<br>8/8/2016   | 9:30 PM<br>8/9/2016   | <b>Extends</b> the current commercial salmon fishing period in the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District for 72 hours from 9:30 PM Tuesday, August 9 until 9:30 PM Friday, August 12.  |
| 4-FS-L-28-16 | 6:15 PM<br>8/12/2016  | 2:00 PM<br>8/14/2016  | <b>Opens</b> the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District at 2:00 PM Sunday, August 14 until further notice.  |
| 4-FS-L-29-16 | 9:15 AM<br>8/29/2016  | 11:59 PM<br>8/31/2016 | <b>Closes</b> the current commercial salmon fishing period in the Chignik Bay and Central districts, as well as the Inner Castle Cape Subsection of the Western District at 11:59 PM Wednesday, August 31.  |



**APPENDIX B. 2016 CHIGNIK SOCKEYE SALMON POST-  
WEIR ESCAPEMENT ESTIMATE MEMORANDUM**

# MEMORANDUM


*State of Alaska*

Department of Fish and Game  
Westward Region Office

TO: Kevin Schaberg  
Regional Finfish Research Coordinator  
Commercial Fisheries Division  
Region IV- Kodiak

DATE: November 28, 2016

PHONE NO: 907-486-1848

FROM: Heather Finkle   
Finfish Research Biologist  
Commercial Fisheries Division  
Region IV- Kodiak

SUBJECT: 2016 Chignik post-weir estimate thru  
September 30

The overwhelming majority of Chignik River sockeye salmon escapement is estimated when passing through the Chignik weir, which is operational generally between the end of May through the beginning of September. However, fish continue to escape the system through the end of September and beyond after the weir has been removed.

Since the late 1990s, the Chignik late-run escapement goal has been adjusted numerous times to meet subsistence needs. In 1998, an objective of 25 thousand sockeye salmon for the period of September 1 -15 was added to the existing late run goal to allow local residents to achieve subsistence harvests. Again addressing concerns from local subsistence users, the 2004 Board of Fisheries added an additional 25 thousand sockeye salmon to the August management objective. In 2007, the late run's sustainable escapement goal (SEG) was increased from a range of 200-250 thousand fish to a range of 200-400 thousand fish through September 30, reassigning the prior August and September objectives and in-river run goal (IRRG) of 50 thousand fish supplemental to the SEG (Witteveen et al. 2007). Although there have been adjustments to the IRRG, the SEG for the late run has not changed following escapement goal reviews in 2010 (Nemeth et al. 2010), 2013 (Sagalkin et al. 2013), and 2015 (Schaberg et al. 2015).

Because the Chignik weir has generally been removed for the season at the beginning of September and the late-run SEG extends to September 30, a post-weir estimate has been derived to estimate the returns to Chignik following the closure of the weir. Typically, a time series analysis generalizing the decay of the run (Chatfield 1985) has been employed for the post-weir analysis to estimate fish passage through September 30.

Starting in 2011, a DIDSON sonar was deployed during weir operations as an initial assessment of the accuracy of DIDSON counts compared to weir counts. The intent of using the sonar was two-fold: the DIDSON would be available to collect accurate escapement count data in the event the weir fails and

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following the removal of the weir when fish still enter the watershed. Since then, sonar counts have been collected following the removal of the weir. Post-weir sonar operation has varied in duration, ending as early as September 23 in 2015 and 2016 and running as late as September 28 in 2012 and 2013.

Because the late run goal extends through the end of September, this requires a post-weir estimate of sockeye salmon escapement for the period from the end of sonar counts through the end of September. For 2016, the weir was operated until September 12 and the DIDSON sonar was operated from September 13 to 23.

A time series model, which assumed the forecasted escapement follows the same rate of decay as the run, estimated a total of 3,464 late-run fish to have escaped upriver from September 24 to September 30 (Figure 1). The model employed weir count data from September 6 to 12 and DIDSON count data from September 13 to 23 to represent the decay of the run. No fishing occurred during the period of post-weir estimation. Inseason stock composition genetics analysis indicated that the run was greater than 99% late run by this time.

The addition of the post-weir estimate to the run reconstruction yields a total of 52,385 fish escaping the system from September 1 to 30, with 15,542 fish estimated to have escaped from September 16 to 30.

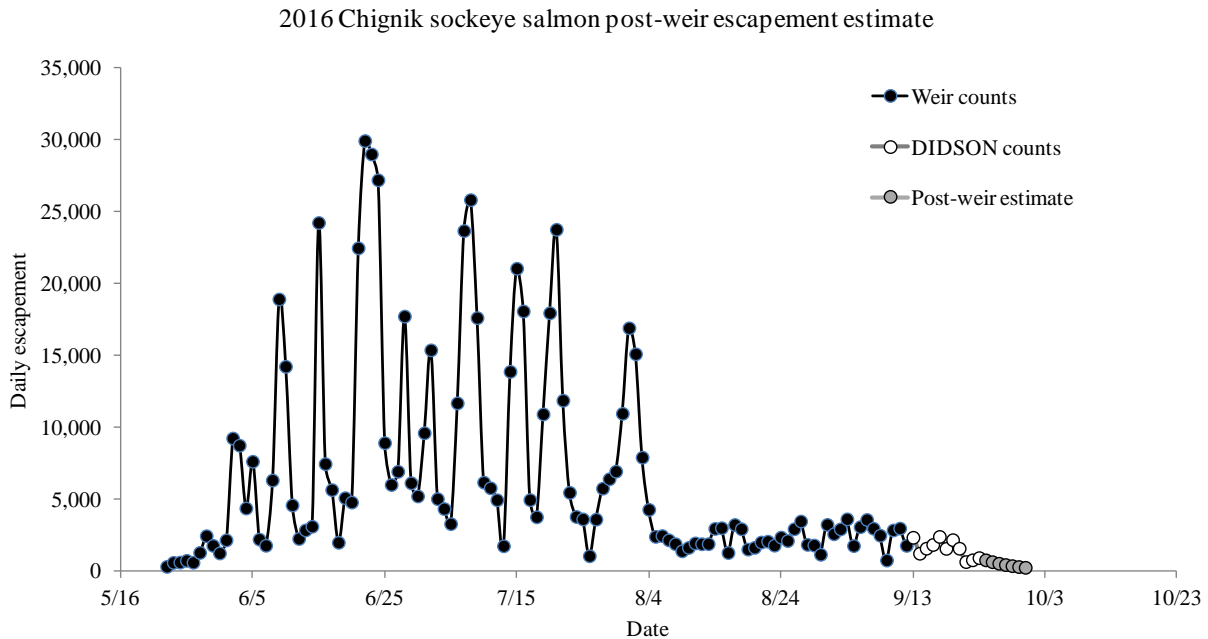


Figure 1. Estimated Chignik sockeye salmon run by day for 2016.

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- Chatfield, C. 1985. *The Analysis of Time Series: An Introduction*, 3<sup>rd</sup> ed. Chatman and Hall, London.
- Nemeth M. J., M. E. Loewen, H. Finkle, J. S. Schmidt, J. W. Erickson, M. J. Witteveen, and D. Barnard. 2010. Review of salmon escapement goals in the Chignik Management Area, 2010. Alaska Department of Fish and Game, Fishery Manuscript Series No. 10-08, Anchorage.
- Sagalkin, N. H., A. St. Saviour, J. W. Erickson, and H. Finkle. 2013. Review of salmon escapement goals in the Chignik Management Area, 2013. Alaska Department of Fish and Game, Fishery Manuscript Series No. 13-06, Anchorage.
- Schaberg, K. L., D. A. Tracy, M. B. Foster, and M. Loewen. 2015. Review of salmon escapement goals in the Chignik Management Area, 2015. Alaska Department of Fish and Game, Fishery Manuscript Series No. 15-02, Anchorage.
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CC: Wilburn, Stumpf, Wadle