

Fishery Management Report No. 22-04

**Chignik Management Area Salmon Annual
Management Report, 2021**

by

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and

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March 2022

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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| | | | | | |
|---|--------------------|--|---|---|-------------------------|
| Weights and measures (metric) | | General | | Mathematics, statistics | |
| 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, χ^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 |
| Weights and measures (English) | | Company | Co. | degree (angular) | $^\circ$ |
| cubic feet per second | ft ³ /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 | ≥ |
| 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 | ≤ |
| 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 ₂ , etc. |
| | | latitude or longitude | lat or long | minute (angular) | ' |
| Time and temperature | | 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) | α |
| hour | h | United States of America (noun) | USA | probability of a type II error (acceptance of the null hypothesis when false) | β |
| 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 |
| Physics and chemistry | | | | 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 | | | | |

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Michelle E. Stratton

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ABSTRACT

This report summarizes the 2021 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 2021, the Chignik River Chinook salmon *O. tshawytscha* estimated escapement of 1,172 fish was below the escapement goal range of 1,300 to 2,700 fish. The 2021 Chignik River early-run sockeye salmon *O. nerka* estimated escapement of 244,384 fish was below the escapement goal range of 350,000 to 450,000 fish for the fourth consecutive year. The late-run sockeye salmon estimated escapement of 396,558 fish met the late-run escapement goal range of 220,000 to 400,000 fish. The total 2021 CMA sockeye salmon harvest of 118,839 fish was well below all recent averages. The 2021 indexed peak pink salmon escapement estimate of 462,000 fish was above the odd-year sustainable escapement goal (SEG) range of 260,000 to 450,000 fish. The indexed peak escapement of 122,000 chum salmon was above the SEG range of 45,000 to 110,000 fish. CMA coho, pink, and chum salmon harvests were below recent averages. A total of 31 CMA permit holders made deliveries in 2021. The exvessel value for commercial salmon harvest in the CMA for 2021 totaled approximately \$2.5 million.

Keywords: Chignik Management Area (CMA), Chignik River, *Oncorhynchus*, salmon, Alaska Board of Fisheries, 2021 commercial fisheries management, Chignik Salmon Management Plan, harvest, escapement

INTRODUCTION

This report describes the 2021 commercial salmon management plan, fishing activity, escapements, and harvests in the Chignik Management Area (CMA; Area L). 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 2, 2021. Data published in this report supersede any data previously published.

The Alaska Department of Fish and Game (ADF&G) manages all commercial Pacific salmon *Oncorhynchus* spp. fisheries within the CMA. 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 more than 100 salmon producing streams in the CMA, with the Chignik River, located in the Chignik Bay District, being the major sockeye salmon *O. nerka* producer for the CMA.

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).

OVERVIEW OF MANAGEMENT PLANS

The 2021 CMA commercial salmon fishery was managed based on the *Chignik Salmon Management Plan* (5 AAC 15.357).¹ 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)² in the Kodiak Management Area (Area K) and the *Southeastern District Mainland (SEDM) Salmon Management Plan* (5 AAC 09.360)¹ 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 (Anderson et al. 2019). The Cape Igvak Section is the westernmost section of Area K, located directly northeast of the CMA (Figure 1). During the 2020 Kodiak Finfish Board of Fisheries (BOF) meeting, the BOF made changes to the current *Cape Igvak Salmon Management Plan*. Under the current plan criteria, from June 1 through July 5, 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 7.5% 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 fish harvesters. After July 5, 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 (Fox et al. 2018). 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

¹ ADF&G. 2019. 2019–2021 Alaska Peninsula, Atka-Amlia Islands, Aleutian Islands, and Chignik Areas Commercial Salmon Fishing Regulations. Alaska Department of Fish and Game, Juneau.

² ADF&G. 2020–2022. Kodiak Area Commercial Salmon Fishing Regulations. Alaska Department of Fish and Game. Juneau.

total estimated CMA sockeye salmon harvest is allocated to SEDM fisher harvesters (5 AAC 09.360 (a–g)).

2021 CHIGNIK SALMON MANAGEMENT

Inseason management of the CMA commercial salmon fishery is structured around 5 districts that are further broken down into 13 sections. These districts and sections are further subdivided into statistical reporting areas for harvest reporting and management purposes (Figure 2).

Chignik Bay and Central Districts Commercial Salmon Fishery

The first commercial fishing period may not open in the CMA until at least 20,000 sockeye salmon have escaped into the Chignik River, or if ADF&G determines that a strong buildup of sockeye salmon exists in Chignik Lagoon and it is anticipated that 20,000 sockeye salmon will escape into the Chignik River (Figure 3). The purpose of this regulation is to allow subsistence fishing opportunities prior to the commercial fishing season and to avoid a large buildup of salmon in the lagoon.

Once the 20,000 sockeye salmon minimum has been achieved or is expected to be achieved, the Chignik Bay and Central Districts, and the Inner Castle Cape Subsection of the Western District (Figures 2 and 4) may open concurrently as long as the Chignik Lakes sockeye salmon runs are meeting escapement objectives (5 AAC 15.357 (b)). Management action may also be taken for local stocks of Chinook, coho, pink, and chum salmon.

Eastern District Commercial Salmon Fishery

In June, the Eastern District, by regulation (5 AAC 15.357 (c)(1)), opens concurrently with the Chignik Bay and Central Districts, and the Inner Castle Cape subsection of the Western District (Figures 2 and 4). Beginning in July, management of the Eastern District is based on local pink and chum salmon stocks as well as the strength of the Chignik River sockeye salmon runs. After July 31, the Eastern District is managed based on ADF&G's evaluation of local pink, chum, and coho salmon or the strength of the Chignik Lake sockeye salmon run (5 AAC 15.357 (d)(3)).

Western and Perryville Districts Commercial Salmon Fishery

By regulation, the Inner Castle Cape Subsection of the Western District opens concurrently with the Chignik Bay and Central Districts throughout the commercial salmon fishing season (5 AAC 15.357 (b); Figures 2, and 4). Also, by regulation (5 AAC 15.357 (d)), from June 1 through July 5, in the Western District, excluding the Inner Castle Cape Subsection, and in the Perryville District, ADF&G may open the commercial salmon fishery concurrently with the Chignik Bay and Central Districts and the Inner Castle Cape Subsection of the Western District.

INSEASON MANAGEMENT

The first 2021 commercial salmon fishing period began on July 12, and the last commercial fishing period ended on August 31 (Figure 5). A total of 31 CMA commercial salmon permit holders participated in the 2021 commercial salmon season, although harvest effort ceased on August 26 when processors ceased fish purchasing operations.

All commercial salmon resources in the CMA are managed by emergency order based on inseason evaluation of local stock abundance and escapement objectives. The Chignik River weir was operational June 1 through August 16 in 2021 and provided daily escapement counts used to

manage most of the commercial fisheries within the CMA (Tables 2 and 3). In addition, aerial surveys from a fixed-wing aircraft were used to enumerate local pink, chum, and coho salmon stocks that return to systems without weirs.

During the 2021 season, ADF&G applied an average stock proportion curve developed from genetic data collected during the 2010–2020 seasons. The model from which the curve was developed assumed that early-run fish escape upriver through July 31. However, late-run sockeye salmon begin escaping in mid-June, and all fish passing the weir beginning August 1 are considered late run.

Between July 6 and July 15, ADF&G may conduct one or more 48-hour fishery in select bays of the Central, Eastern, Western, and Perryville Districts to provide early harvest opportunity on pink and chum salmon (Johnson 2021). After July 15, the management of these areas is based on inseason escapement information. In 2021, one 48-hour fishery was prosecuted between July 5 and July 15.

Early in June, early-run sockeye salmon escapement fell behind interim escapement objectives and failed to develop throughout June and early July. As a result of the poor early-run escapement, there were no fishing periods scheduled in June. Fishing periods in July occurred only in terminal areas for the harvest of pink and chum salmon stocks.

On July 12, commercial salmon fishing was allowed in inner bays in the Central, Western, and Perryville Districts for 48 hours to assess the development of pink and chum salmon runs. Participation in this initial 48-hour opener was minimal. Starting July 18, inner bays in the Eastern District, as well as the Central, Western, and Perryville Districts were opened to commercial salmon fishing for 48 hours to provide opportunity on developing pink and chum salmon runs. Until August 2 (when districtwide openers began occurring due to the development of the late run of sockeye salmon), 48 hours of fishing time was provided per week (Appendix A1).

Typically, late-run sockeye salmon begin to enter the Chignik watershed in mid-June. Commercial fishing is frequently curtailed during this time for ADF&G to evaluate the strength of the late run. The late run of sockeye salmon met all interim escapement goals throughout the 2021 season. However, escapement trended along the lower end of interim escapement objectives during July, and there was no harvestable surplus of sockeye salmon. During the first week of August, escapement levels started to trend in the upper 50 percentile of interim escapement objectives. As a result, commercial salmon fishing in areas for sockeye salmon started August 2 in the Eastern, Western, and Perryville Districts, as well as the Kujulik Bay Section of the Central District for an initial 48-hour period. On August 5, the Central District and Chignik Bay District opened to commercial salmon fishing. The August 5 commercial salmon fishing period was extended multiple times based on the strength of sockeye salmon escapement at the Chignik River weir. Ultimately, the commercial salmon fishing opportunity was extended through midnight of August 31, although harvest effort ceased on August 26 when processors ceased fish purchasing operations (Appendix A1).

ESCAPEMENT AND HARVEST DATA

Stock Separation Techniques and Genetic Stock Identification

There are 2 genetically distinct sockeye salmon runs (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, an 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, fishing periods were based on achievement of early-run escapement objectives through July 4, and then switched to late-run escapement objectives on July 5. Beginning in 2014, inseason 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 4). Genetic tissue (axillary process) was clipped from approximately 190 sockeye salmon during each sampling event, and samples were sent to ADF&G’s Gene Conservation Laboratory, 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 early- and late-run sockeye salmon stocks to Chignik River escapement estimates (Russell and Foster 2014). Beginning in 2013, sampling intensity was reduced, with effort focused during the critical overlap period (6 sampling periods; Table 4).

Due to the lag time between the collection of samples and receiving the genetic results, incorporating inseason genetic estimates effectively as an adaptive management tool proved to be difficult. The transition period between the early and late runs, however, is not determined by one data point; typically, at least 4 data points collected over 4-to-6-day intervals are necessary to begin to define the curve. More importantly, the day on which genetic results are received may not accurately represent early- and late-run proportions as stock composition changes from the time of sample collection to data reporting. In other words, fish that have passed the weir have not been good representatives of inseason stock composition for fish still requiring travel time to reach the weir. Due to these difficulties, ADF&G decided that managing on a central tendency would lead to a greater chance of being within the range of both escapement goals. During the 2021 transition period, the daily early- and late-run sockeye salmon escapements were initially determined by applying an average stock proportion curve developed from past inseason genetic information (2010–2020). There were 6 genetic sampling events during the traditional peak overlap period in 2021 and the samples were analyzed inseason after each individual sample was collected (Table 4). Once all samples were analyzed, genetic results were applied to the daily escapement of sockeye salmon from June 1 through July 31 to reflect the 2021 transition curve (Tables 3 and 4). Figure 6 represents the variable late-run sockeye salmon timing into the Chignik River from 2011–2021.

Postseason, the estimated total sockeye salmon run size is completed by adjusting daily commercial catch information to the date when the harvested fish would have passed the weir and applying the appropriate stock composition estimate to the harvested fish. Daily run size estimates were created using stock specific harvest estimates added to the daily escapements. The early- and late-run sockeye salmon escapement results can be found in Appendix B1.

Escapement Goals

In 2015, a salmon escapement goal review team, including staff from the Divisions of Commercial Fisheries and Sport Fish, 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 goals (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, representing 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. In 2018, these goals were again reviewed by an escapement goal review team from the Divisions of Commercial Fisheries and Sport Fish, and no changes were recommended (Schaberg et al. 2019).

There were no changes recommended to any of the other established CMA salmon escapement goals, which remained as follows: the Chignik River Chinook salmon biological escapement goal (BEG) range of 1,300–2,700 fish, the early-run sockeye salmon BEG of 350,000–450,000 fish (Table 1), and the late-run sockeye salmon SEG of 220,000–400,000 fish. The late-run SEG includes an in-river run goal (IRRG) of 20,000 fish added to the lower bound of the goal range for late-season subsistence needs. The IRRG was decreased at the 2019 Board of Fisheries (BOF) meeting from 75,000 sockeye salmon (25,000 in August and 50,000 fish in September) to 20,000 sockeye salmon (10,000 fish in August and 10,000 fish September 1–30; 5AAC 15.357(b)(3)(B)).

2021 ESCAPEMENT INFORMATION

In 2021, salmon escapement into the Chignik River was enumerated using a weir. There were 2 gates in the weir that 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 first count of the 2021 season was on June 1, and the last full count was on August 16, after which the weir was removed (Tables 2, 3, and 5). A post-weir sockeye salmon estimate was produced using times series analysis for August 17 through September 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 late June. The largest day of escapement occurred on July 24 of approximately 96 Chinook salmon (Table 5). The run peaked by mid-July and was over by mid-August (Table 5, Figure 7). The Chinook salmon escapement in

2021 of 1,172 fish was not within the BEG range of 1,300–2,700 fish and below recent averages (Table 6, Figure 8; Schaberg et al. 2019). The overall Chinook salmon run for the Chignik River was very weak in 2021. Prior to August 2, commercial salmon fishing occurred in the Central District only during fishing periods occurring in the Kujulik Bay Section. Prior to August 5, commercial salmon fishing did not occur in the Chignik Bay District. After August 5, commercial salmon fishing was allowed in the Chignik Bay District; however, retention of Chinook salmon greater than 28 inches in length was not allowed. The typical harvest of Chinook salmon did not occur in the Central or Chignik Bay Districts, probably increasing escapement of Chinook salmon during this time. The Chinook BEG of 1,300–2,700 has not been achieved in 4 of the last 5 years (Figure 8).

Sockeye Salmon

Chignik sockeye salmon are managed based on incremental escapement objectives by run (Table 1). The Chignik River sockeye salmon early run peaked in late June and the late run peaked in late July (Table 3, Figure 9). The 2021 estimated total Chignik River watershed sockeye salmon escapement (640,942 fish) was below the 10-year average (Table 7). The early-run escapement was estimated at 244,384 sockeye salmon and was well below the early-run BEG of 350,000–450,000 fish (Table 7, Figure 10). The late-run estimated escapement of 396,558 sockeye salmon was within the late-run SEG range of 220,000–400,000 fish (Table 7, Figure 10). The late-run escapement includes a post-weir estimate for August 17–September 30 (55,173; Table 2).

The late-run Chignik River sockeye salmon IRRG requires 10,000 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 60,000 sockeye salmon escape past the weir in August. The IRRG also requires that 10,000 sockeye salmon be escaped during September. In 2021 the August component of the IRRG was met with an estimated 142,183 sockeye salmon passing through the Chignik weir (Table 2). August escapement includes a post-weir estimate of 34,590 fish from August 17–31. The September 2021 IRRG component was also met with an estimated 20,583 sockeye salmon escaping into the Chignik River. Due to the removal of the Chignik weir on August 16, the entire September escapement was produced using a post-weir estimate.

Survey conditions for Black Lake and its tributaries during annual spawning ground surveys (late August–early September) were poor; the observed number of sockeye salmon was approximately 60,200 fish, well below all recent averages (Table 8). Most fish were observed spawning in the Alec River (42,000 fish; Appendix C1).

Survey conditions for Chignik Lake, Black River, and their tributaries during annual spawning ground surveys (early September) were poor. As a result, sockeye salmon estimates in the Chignik Watershed tributaries were approximately 60,000 and 21,900, respectively (Table 9). The majority of sockeye salmon were observed spawning along Hatchery Beach and Chiaktuak Creek (34,000 and 20,000 fish; Appendix C1).

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 begin to enter CMA drainages in mid-August and generally continue through November. Due to the early removal of the Chignik weir on August 16, none of the coho salmon run returning to the Chignik River were counted in 2021 (Table 5). Late season coho salmon stream surveys in the CMA are not typically conducted in September due to staff departure from Chignik prior to the majority of the coho returning to the CMA.

Due to late season run timing and limited directed effort, escapement goals for coho salmon have not been established in the CMA (Schaberg et al. 2019).

Pink Salmon

Pink salmon began entering the Chignik River in late June and peaked in mid-August with a total escapement of 6,057 fish (Table 5). The 2021 Chignik River pink salmon odd-year escapement was below all recent odd-year averages (Table 6).

Escapements into other CMA streams were monitored via aerial surveys. During the season, streams that have been historically monitored for pink salmon were surveyed and compared to historical run timing and distribution. The current odd-year index SEG of 260,000–450,000 pink salmon is composed of 8 index streams in 4 of the 5 districts in the CMA. The 2021 calculated peak escapement, based on aerial surveys of 8 index streams, was above the odd-year SEG with 462,000 fish (Table 10).

Chum Salmon

Chum salmon return to the Chignik River in limited numbers, mainly in late July and August (Table 5). The 2021 Chignik River chum salmon escapement was 25 fish, which was below all recent average escapements (Table 6).

Escapements into other CMA streams were monitored via aerial surveys. During the season, streams that have been historically monitored for chum salmon were surveyed and compared to historical run timing and distribution. 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 index streams were summed and compared to the areawide aggregate SEG for chum salmon (Schaberg et al. 2019). The 2021 CMA chum salmon escapement estimate of 122,000 fish based on the 6 index streams was above the SEG for chum salmon and recent 10-year average (Table 11).

2021 HARVEST INFORMATION

Commercial salmon harvest in the CMA is organized into 3 categories. The first category includes salmon that were commercially harvested but retained for private use (home pack). The second category includes salmon harvested and sold as part of ADF&G's test fishery program. The third category includes salmon commercially harvested and sold within the CMA. Additionally, sockeye salmon harvested under the Cape Igvak and SEDM management plans are reported separately in this report. For allocative purposes, the Board of Fisheries has determined that specific portions of these harvests are considered bound for the Chignik River.

A total of 2 processors purchased salmon within the CMA in 2021. Due to the low number of buyers in 2021, confidentiality requirements and agreements limit the release of certain information in this report.

Salmon harvested under subsistence regulations in ADF&G's Chignik Lagoon test fishery or retained as home pack from the commercial fishery were not included in any of the harvest allocations. All harvest information in this report was aggregated from the ADF&G fish ticket database and supersedes any previously published data.

Chinook Salmon

A total of 1,422 Chinook salmon were harvested in 2021, well below the recent averages. Chinook salmon harvested in the CMA are typically harvested during commercial openings for sockeye, pink, and chum salmon. The most recent 10-year average harvest of Chinook salmon in the CMA is 6,026 fish (Tables 12, 13, 14, and 15).

Sockeye Salmon

The 2021 CMA sockeye salmon harvest of 118,839 fish was well below the recent 5-, 10-, and 20-year average sockeye salmon harvests (Tables 12 and 16). The majority of the sockeye salmon harvest came from the Chignik Bay (63,772 fish) and Western District (49,708 fish) during August (Table 17 and 18).

Neither the Cape Igvak section of Area K nor the SEDM section of Area M opened to commercial salmon fishing during the allocation period in 2021 (June 1 through July 25 and June 1 through July 5, respectively). As a result, all sockeye salmon harvested that were considered Chignik-bound came from the CMA (Table 19).

The 2021 Chignik River early run of sockeye salmon did not develop, and no directed sockeye salmon commercial fishing periods were scheduled from early June through July. Approximately 41 early-run sockeye salmon were harvested in 2021 (Tables 20 and 21, Figure 11); however, these fish were a result of commercial openings directed at late-run sockeye salmon. The late-run harvest of 118,798 sockeye salmon was below the 5-, 10-, and 20-year averages (Table 20, Figure 12). The total run estimate (harvest plus escapement) of Chignik-bound sockeye salmon is 759,781 fish (Table 20, Figure 13).

Coho Salmon

A total of 84,453 coho salmon were harvested in the CMA during 2021, which was below all recent average harvests (Tables 12, 22, and 23). The majority of the 2021 coho salmon harvest occurred in the Western District during August (Tables 23 and 24).

Pink Salmon

The 2021 CMA pink salmon harvest of 1,321,454 was below the 10-year odd average of 2,657,202 fish (Tables 12, 25, and 26). The majority of the 2021 pink salmon harvest occurred in the Western District (1,079,397 fish) during August (Tables 26 and 27). Pink salmon harvest in the CMA occurred from mid-July through August (Table 27).

Chum Salmon

A total of 43,187 chum salmon were harvested from the CMA during the 2021 season, which was well below the 5-, 10-, and 20-year averages. (Tables 12, 28, and 29). In 2021, all commercially harvested chum salmon were sold to processors (Table 28). The largest chum salmon harvest occurred in the Western District (23,176 fish; Table 29 and 30). Chum salmon harvest in the CMA occurred from mid- July through August (Table 30).

ECONOMIC VALUE

In 2021, 31 CMA permit holders made deliveries (Table 31). The exvessel value of the 2021 CMA commercial salmon harvest was about \$2.5 million, or approximately \$80,000 per active permit holder, which was below the 5-, 10-, and 20-year average exvessel values (Table 31, Figure 14). Approximately 35% of exvessel revenue was from the sale of sockeye salmon (\$28,034 per active permit holder). Pink salmon harvest was the largest value in the commercial fisheries making up approximately 54% of the 2021 CMA exvessel revenue (\$43,003 per active permit holder). The 2021 Chinook, coho, and chum salmon harvest provided approximately \$91, \$4,629, and \$3,873, respectively, per active permit holder (Table 31).

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). No test fisheries were conducted in 2021.

SUBSISTENCE SALMON

Despite the record low return of sockeye salmon to the CMA, state subsistence fishing for sockeye salmon remained open the entire season. The Federal Subsistence Board restricted subsistence fishing for sockeye salmon to federally qualified users (local resident) only from July 8 through July 31 in all Federal public waters of the Chignik River drainage. Subsistence fishing in Federal public waters for sockeye salmon reopened to all subsistence users on August 1.

Due to poor Chinook salmon escapement through the Chignik weir, both state and federal subsistence fishing for Chinook salmon was restricted on July 14. ADF&G closed the entire Chignik Bay District to the harvest of Chinook salmon greater than 28 inches in length to all users through August 31, 2021. On all federal public waters, subsistence fishing for Chinook salmon was closed through August 31.

The 2021 CMA subsistence harvest will not be available until after subsistence permits are returned and tabulated in the spring of 2022. Historical subsistence harvests can be found in Table 32.

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TABLES AND FIGURES

Table 1.–Chignik River sockeye salmon escapement objectives, 2021.

| Date | Black Lake | | Chignik Lake | | Combined | |
|---------------------------|------------|-----------|--------------|-----------|----------|-----------|
| | Lower | Upper | Lower | Upper | Lower | Upper |
| 5-Jun | 12,000 | – 17,000 | | | 12,000 | – 17,000 |
| 10-Jun | 45,000 | – 55,000 | | | 45,000 | – 55,000 |
| 15-Jun | 95,000 | – 125,000 | | | 95,000 | – 125,000 |
| 20-Jun | 150,000 | – 230,000 | 1,000 | – 2,000 | 151,000 | – 232,000 |
| 25-Jun | 215,000 | – 320,000 | 3,000 | – 5,000 | 218,000 | – 325,000 |
| 30-Jun | 270,000 | – 360,000 | 6,000 | – 12,000 | 276,000 | – 372,000 |
| 5-Jul | 300,000 | – 390,000 | 12,000 | – 30,000 | 312,000 | – 420,000 |
| 10-Jul | 330,000 | – 410,000 | 20,000 | – 50,000 | 350,000 | – 460,000 |
| 15-Jul | 340,000 | – 430,000 | 40,000 | – 85,000 | 380,000 | – 515,000 |
| 20-Jul | 350,000 | – 440,000 | 70,000 | – 140,000 | 420,000 | – 580,000 |
| 25-Jul | 350,000 | – 448,000 | 110,000 | – 200,000 | 460,000 | – 648,000 |
| 30-Jul | 350,000 | – 450,000 | 140,000 | – 250,000 | 490,000 | – 700,000 |
| 4-Aug | | | 160,000 | – 290,000 | 510,000 | – 740,000 |
| 9-Aug | | | 170,000 | – 320,000 | 520,000 | – 770,000 |
| 14-Aug | | | 180,000 | – 335,000 | 530,000 | – 785,000 |
| 19-Aug | | | 190,000 | – 350,000 | 540,000 | – 800,000 |
| 24-Aug | | | 200,000 | – 360,000 | 550,000 | – 810,000 |
| 29-Aug | | | 208,000 | – 375,000 | 558,000 | – 825,000 |
| 31-Aug | | | 210,000 | – 380,000 | 560,000 | – 830,000 |
| September | | | 220,000 | – 400,000 | 570,000 | – 850,000 |
| Escapement goals | | | | | | |
| Black Lake | 350,000 | – 450,000 | | | | |
| Chignik Lake ^a | 220,000 | – 400,000 | | | | |

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 in 2014.

^a 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 20,000 sockeye salmon inriver run goal (10,000 in August and 10,000 in September) to meet late-season subsistence needs. This results in an escapement of at least 60,000 sockeye salmon in August and a management target of 10,000 sockeye salmon in September.

Table 2.—Estimated Chignik River sockeye salmon escapement, by day and management objective period, 2021.

| June | | | July | | |
|---------------------|--------|---------|---------------------|--------|---------|
| Date | Daily | Total | Date | Daily | Total |
| 6/1 | 66 | 66 | 7/1 | 7,747 | 7,747 |
| 6/2 | 180 | 246 | 7/2 | 17,322 | 25,069 |
| 6/3 | 108 | 354 | 7/3 | 7,167 | 32,236 |
| 6/4 | 222 | 576 | 7/4 | 3,305 | 35,541 |
| 6/5 | 240 | 816 | 7/5 | 6,761 | 42,302 |
| 6/6 | 180 | 996 | 7/6 | 8,040 | 50,342 |
| 6/7 | 480 | 1,476 | 7/7 | 6,501 | 56,843 |
| 6/8 | 1,101 | 2,577 | 7/8 | 6,930 | 63,773 |
| 6/9 | 258 | 2,835 | 7/9 | 7,364 | 71,137 |
| 6/10 | 4,158 | 6,993 | 7/10 | 10,264 | 81,401 |
| 6/11 | 3,947 | 10,940 | 7/11 | 6,883 | 88,284 |
| 6/12 | 3,096 | 14,036 | 7/12 | 10,950 | 99,234 |
| 6/13 | 3,270 | 17,306 | 7/13 | 11,750 | 110,984 |
| 6/14 | 4,496 | 21,802 | 7/14 | 13,834 | 124,818 |
| 6/15 | 4,997 | 26,799 | 7/15 | 8,938 | 133,756 |
| 6/16 | 5,035 | 31,834 | 7/16 | 6,364 | 140,120 |
| 6/17 | 4,751 | 36,585 | 7/17 | 8,921 | 149,041 |
| 6/18 | 8,679 | 45,264 | 7/18 | 9,100 | 158,141 |
| 6/19 | 6,732 | 51,996 | 7/19 | 8,531 | 166,672 |
| 6/20 | 9,402 | 61,398 | 7/20 | 6,859 | 173,531 |
| 6/21 | 8,868 | 70,266 | 7/21 | 13,705 | 187,236 |
| 6/22 | 10,968 | 81,234 | 7/22 | 15,040 | 202,276 |
| 6/23 | 1,170 | 82,404 | 7/23 | 14,239 | 216,515 |
| 6/24 | 476 | 82,880 | 7/24 | 15,526 | 232,041 |
| 6/25 | 279 | 83,159 | 7/25 | 10,829 | 242,870 |
| 6/26 | 30,090 | 113,249 | 7/26 | 9,590 | 252,460 |
| 6/27 | 14,928 | 128,177 | 7/27 | 12,485 | 264,945 |
| 6/28 | 13,661 | 141,838 | 7/28 | 13,176 | 278,121 |
| 6/29 | 9,496 | 151,334 | 7/29 | 12,054 | 290,175 |
| 6/30 | 14,628 | 165,962 | 7/30 | 10,846 | 301,021 |
| June total: 165,962 | | | 7/31 | 11,193 | 312,214 |
| | | | July total: 312,214 | | |

-continued-

Table 2.–Page 2 of 2.

| August | | | September | | |
|--------------------------------|--------|---------|-----------------------------------|-------|---------|
| Date | Daily | Total | Date | Daily | Total |
| 8/1 | 12,774 | 12,774 | | | |
| 8/2 | 10,833 | 23,607 | Post-weir estimate: (9/1–9/30) | | 20,583 |
| 8/3 | 7,840 | 31,447 | September total: 20,583 | | |
| 8/4 | 10,541 | 41,988 | | | |
| 8/5 | 8,859 | 50,847 | | | |
| 8/6 | 8,210 | 59,057 | Early run total: ^a | | 244,384 |
| 8/7 | 2,675 | 61,732 | Late run total: ^a | | 396,558 |
| 8/8 | 3,884 | 65,616 | Season total: | | 640,942 |
| 8/9 | 4,269 | 69,885 | | | |
| 8/10 | 4,872 | 74,757 | | | |
| 8/11 | 6,198 | 80,955 | | | |
| 8/12 | 6,258 | 87,213 | | | |
| 8/13 | 6,160 | 93,373 | | | |
| 8/14 | 3,812 | 97,185 | | | |
| 8/15 | 6,431 | 103,616 | | | |
| 8/16 | 3,977 | 107,593 | | | |
| Post-weir estimate (8/17–8/31) | | 34,590 | | | |
| August total: 142,183 | | | | | |

Note: 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.

^a Genetics were used post-season to determine the apportionment of the early- and late-run sockeye salmon in the Chignik River in 2021.

Table 3.—Genetic stock proportions of estimated Chignik River sockeye salmon escapement, by day, 2021.

| Date | Daily escapement | Cumulative escapement | Early run | Late run |
|------|------------------|-----------------------|-----------|----------|
| 6/1 | 66 | 66 | 66 | 0 |
| 6/2 | 180 | 246 | 180 | 0 |
| 6/3 | 108 | 354 | 108 | 0 |
| 6/4 | 222 | 576 | 221 | 1 |
| 6/5 | 240 | 816 | 239 | 1 |
| 6/6 | 180 | 996 | 179 | 1 |
| 6/7 | 480 | 1,476 | 477 | 3 |
| 6/8 | 1,101 | 2,577 | 1,094 | 7 |
| 6/9 | 258 | 2,835 | 256 | 2 |
| 6/10 | 4,158 | 6,993 | 4,122 | 36 |
| 6/11 | 3,947 | 10,940 | 3,907 | 40 |
| 6/12 | 3,096 | 14,036 | 3,059 | 37 |
| 6/13 | 3,270 | 17,306 | 3,224 | 46 |
| 6/14 | 4,496 | 21,802 | 4,423 | 73 |
| 6/15 | 4,997 | 26,799 | 4,902 | 95 |
| 6/16 | 5,035 | 31,834 | 4,922 | 113 |
| 6/17 | 4,751 | 36,585 | 4,627 | 124 |
| 6/18 | 8,679 | 45,264 | 8,414 | 265 |
| 6/19 | 6,732 | 51,996 | 6,492 | 240 |
| 6/20 | 9,402 | 61,398 | 9,011 | 391 |
| 6/21 | 8,868 | 70,266 | 8,439 | 429 |
| 6/22 | 10,968 | 81,234 | 10,350 | 618 |
| 6/23 | 1,170 | 82,404 | 1,093 | 77 |
| 6/24 | 476 | 82,880 | 440 | 36 |
| 6/25 | 279 | 83,159 | 254 | 25 |
| 6/26 | 30,090 | 113,249 | 27,029 | 3,061 |
| 6/27 | 14,928 | 128,177 | 13,177 | 1,751 |
| 6/28 | 13,661 | 141,838 | 11,818 | 1,843 |
| 6/29 | 9,496 | 151,334 | 8,027 | 1,469 |
| 6/30 | 14,628 | 165,962 | 12,042 | 2,586 |
| 7/1 | 7,747 | 173,709 | 6,188 | 1,559 |
| 7/2 | 17,322 | 191,031 | 13,368 | 3,954 |
| 7/3 | 7,167 | 198,198 | 5,320 | 1,847 |
| 7/4 | 3,305 | 201,503 | 2,348 | 957 |
| 7/5 | 6,761 | 208,264 | 4,574 | 2,187 |
| 7/6 | 8,040 | 216,304 | 5,151 | 2,889 |
| 7/7 | 6,501 | 222,805 | 3,920 | 2,581 |
| 7/8 | 6,930 | 229,735 | 3,910 | 3,020 |
| 7/9 | 7,364 | 237,099 | 3,863 | 3,501 |

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Table 3.–Page 2 of 2.

| Date | Daily escapement | Cumulative escapement | Early run | Late run |
|------|------------------|-----------------------|-----------|----------|
| 7/10 | 10,264 | 247,363 | 4,973 | 5,291 |
| 7/11 | 6,883 | 254,246 | 3,061 | 3,822 |
| 7/12 | 10,950 | 265,196 | 4,442 | 6,508 |
| 7/13 | 11,750 | 276,946 | 4,321 | 7,429 |
| 7/14 | 13,834 | 290,780 | 4,585 | 9,249 |
| 7/15 | 8,938 | 299,718 | 2,654 | 6,284 |
| 7/16 | 6,364 | 306,082 | 1,684 | 4,680 |
| 7/17 | 8,921 | 315,003 | 2,094 | 6,827 |
| 7/18 | 9,100 | 324,103 | 1,886 | 7,214 |
| 7/19 | 8,531 | 332,634 | 1,554 | 6,977 |
| 7/20 | 6,859 | 339,493 | 1,094 | 5,765 |
| 7/21 | 13,705 | 353,198 | 1,908 | 11,797 |
| 7/22 | 15,040 | 368,238 | 1,822 | 13,218 |
| 7/23 | 14,239 | 382,477 | 1,496 | 12,743 |
| 7/24 | 15,526 | 398,003 | 1,412 | 14,114 |
| 7/25 | 10,829 | 408,832 | 851 | 9,978 |
| 7/26 | 9,590 | 418,422 | 650 | 8,940 |
| 7/27 | 12,485 | 430,907 | 728 | 11,757 |
| 7/28 | 13,176 | 444,083 | 660 | 12,516 |
| 7/29 | 12,054 | 456,137 | 519 | 11,535 |
| 7/30 | 10,846 | 466,983 | 400 | 10,446 |
| 7/31 | 11,193 | 478,176 | 354 | 10,839 |
| 8/1 | 12,774 | 490,950 | 0 | 12,774 |
| 8/2 | 10,833 | 501,783 | 0 | 10,833 |
| 8/3 | 7,840 | 509,623 | 0 | 7,840 |
| 8/4 | 10,541 | 520,164 | 0 | 10,541 |
| 8/5 | 8,859 | 529,023 | 0 | 8,859 |
| 8/6 | 8,210 | 537,233 | 0 | 8,210 |
| 8/7 | 2,675 | 539,908 | 0 | 2,675 |
| 8/8 | 3,884 | 543,792 | 0 | 3,884 |
| 8/9 | 4,269 | 548,061 | 0 | 4,269 |
| 8/10 | 4,872 | 552,933 | 0 | 4,872 |
| 8/11 | 6,198 | 559,131 | 0 | 6,198 |
| 8/12 | 6,258 | 565,389 | 0 | 6,258 |
| 8/13 | 6,160 | 571,549 | 0 | 6,160 |
| 8/14 | 3,812 | 575,361 | 0 | 3,812 |
| 8/15 | 6,431 | 581,792 | 0 | 6,431 |
| 8/16 | 3,977 | 585,769 | 0 | 3,977 |

Table 4.—Estimates of genetic stock composition, with upper and lower 90% credibility intervals, and standard deviations (SD) for escapement through the Chignik River weir, by sample date, 2010–2021.

| 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 | 0.130 | 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 | 0.050 | 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 | 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 | 0.024 |
| | 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 4.–Page 2 of 3.

| 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 |
| 2017 | 6/25–6/26 | 189 | 0.986 | 0.917 | 1.000 | 0.029 | 0.014 | 0.000 | 0.083 | 0.029 |
| | 7/1 | 190 | 0.855 | 0.779 | 0.922 | 0.044 | 0.145 | 0.078 | 0.221 | 0.044 |
| | 7/7–7/8 | 189 | 0.715 | 0.622 | 0.803 | 0.055 | 0.285 | 0.197 | 0.378 | 0.055 |
| | 7/13 | 189 | 0.317 | 0.229 | 0.408 | 0.055 | 0.683 | 0.592 | 0.771 | 0.055 |
| | 7/18 | 188 | 0.417 | 0.330 | 0.504 | 0.053 | 0.583 | 0.496 | 0.670 | 0.053 |
| | 7/23 | 188 | 0.429 | 0.332 | 0.526 | 0.059 | 0.571 | 0.474 | 0.668 | 0.059 |
| 2018 | 6/26–6/27 | 189 | 0.989 | 0.931 | 1.000 | 0.026 | 0.011 | 0.000 | 0.069 | 0.026 |
| | 7/2 | 188 | 0.754 | 0.629 | 0.871 | 0.073 | 0.246 | 0.129 | 0.371 | 0.073 |
| | 7/8–7/12 | 185 | 0.884 | 0.803 | 0.954 | 0.046 | 0.116 | 0.046 | 0.197 | 0.046 |
| | 7/17 | 189 | 0.636 | 0.532 | 0.735 | 0.062 | 0.364 | 0.265 | 0.468 | 0.062 |
| | 7/22–7/23 | 189 | 0.559 | 0.453 | 0.659 | 0.063 | 0.441 | 0.341 | 0.547 | 0.063 |
| | 7/27 | 186 | 0.309 | 0.212 | 0.410 | 0.060 | 0.691 | 0.590 | 0.788 | 0.060 |
| 2019 | 6/25 | 188 | 0.998 | 0.988 | 1.000 | 0.008 | 0.002 | 0.000 | 0.012 | 0.008 |
| | 7/1 | 188 | 0.984 | 0.892 | 1.000 | 0.037 | 0.160 | 0.000 | 0.108 | 0.037 |
| | 7/8 | 187 | 0.640 | 0.543 | 0.732 | 0.058 | 0.360 | 0.268 | 0.457 | 0.058 |
| | 7/13 | 188 | 0.591 | 0.475 | 0.698 | 0.067 | 0.409 | 0.302 | 0.525 | 0.067 |
| | 7/19 | 177 | 0.188 | 0.119 | 0.263 | 0.044 | 0.812 | 0.737 | 0.881 | 0.044 |
| | 7/26–7/29 | 95 | 0.033 | 0.000 | 0.085 | 0.027 | 0.967 | 0.915 | 1.000 | 0.027 |

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Table 4.–Page 3 of 3.

| Year | Date | Sample size | Black Lake | | | | Chignik Lake | | | |
|------|-----------|-------------|------------|-------|-------|-------|--------------|-------|-------|-------|
| | | | Proportion | Lower | Upper | SD | Proportion | Lower | Upper | SD |
| 2020 | 6/29–7/1 | 185 | 0.759 | 0.666 | 0.846 | 0.055 | 0.241 | 0.154 | 0.334 | 0.055 |
| | 7/6 | 167 | 0.633 | 0.523 | 0.740 | 0.066 | 0.367 | 0.260 | 0.477 | 0.066 |
| | 7/11–7/12 | 176 | 0.637 | 0.528 | 0.736 | 0.063 | 0.363 | 0.264 | 0.472 | 0.063 |
| | 7/17 | 182 | 0.327 | 0.224 | 0.432 | 0.063 | 0.673 | 0.568 | 0.776 | 0.063 |
| | 7/23 | 187 | 0.263 | 0.170 | 0.365 | 0.059 | 0.737 | 0.635 | 0.830 | 0.059 |
| | 8/1 | 189 | 0.162 | 0.096 | 0.234 | 0.042 | 0.838 | 0.766 | 0.904 | 0.042 |
| 2021 | 6/25 | 190 | 0.892 | 0.824 | 0.951 | 0.039 | 0.108 | 0.049 | 0.176 | 0.039 |
| | 7/1 | 189 | 0.854 | 0.764 | 0.939 | 0.053 | 0.146 | 0.061 | 0.236 | 0.053 |
| | 7/7 | 184 | 0.643 | 0.541 | 0.743 | 0.061 | 0.357 | 0.257 | 0.459 | 0.061 |
| | 7/13–7/14 | 185 | 0.342 | 0.258 | 0.428 | 0.052 | 0.658 | 0.572 | 0.742 | 0.052 |
| | 7/19–7/20 | 190 | 0.198 | 0.125 | 0.276 | 0.046 | 0.802 | 0.724 | 0.875 | 0.046 |
| | 7/26–7/27 | 187 | 0.125 | 0.068 | 0.190 | 0.037 | 0.875 | 0.810 | 0.932 | 0.037 |

Table 5.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, by day, 2021.

| Date | Chinook | | Coho | | Pink | | Chum | | Dolly Varden | |
|------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
| | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative |
| 6/1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6/2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 |
| 6/3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6/4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6/5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6/6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| 6/7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 18 |
| 6/8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6/9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6/10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6/11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 6/12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 24 |
| 6/13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 42 |
| 6/14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 60 |
| 6/15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 102 |
| 6/16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 | 154 |
| 6/17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 166 |
| 6/18 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 38 | 204 |
| 6/19 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 36 | 240 |
| 6/20 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 84 | 324 |
| 6/21 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 55 | 379 |
| 6/22 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 96 | 475 |
| 6/23 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 48 | 523 |
| 6/24 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 42 | 565 |
| 6/25 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 24 | 589 |
| 6/26 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 474 | 1,063 |
| 6/27 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 84 | 1,147 |
| 6/28 | 0 | 0 | 0 | 0 | 6 | 7 | 0 | 0 | 66 | 1,213 |
| 6/29 | 6 | 6 | 0 | 0 | 0 | 7 | 0 | 0 | 102 | 1,315 |
| 6/30 | 6 | 12 | 0 | 0 | 6 | 13 | 0 | 0 | 282 | 1,597 |
| 7/1 | 6 | 18 | 0 | 0 | 0 | 13 | 0 | 0 | 139 | 1,736 |

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Table 5.–Page 2 of 3.

| Date | Chinook | | Coho | | Pink | | Chum | | Dolly Varden | |
|------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
| | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative |
| 7/2 | 1 | 19 | 0 | 0 | 12 | 25 | 0 | 0 | 186 | 1,922 |
| 7/3 | 0 | 19 | 0 | 0 | 0 | 25 | 0 | 0 | 114 | 2,036 |
| 7/4 | 12 | 31 | 0 | 0 | 0 | 25 | 0 | 0 | 42 | 2,078 |
| 7/5 | 6 | 37 | 0 | 0 | 0 | 25 | 0 | 0 | 133 | 2,211 |
| 7/6 | 18 | 55 | 0 | 0 | 0 | 25 | 0 | 0 | 114 | 2,325 |
| 7/7 | 43 | 98 | 0 | 0 | 0 | 25 | 0 | 0 | 86 | 2,411 |
| 7/8 | 24 | 122 | 0 | 0 | 12 | 37 | 0 | 0 | 186 | 2,597 |
| 7/9 | 37 | 159 | 0 | 0 | 24 | 61 | 0 | 0 | 234 | 2,831 |
| 7/10 | 48 | 207 | 0 | 0 | 12 | 73 | 0 | 0 | 150 | 2,981 |
| 7/11 | 36 | 243 | 0 | 0 | 36 | 109 | 0 | 0 | 204 | 3,185 |
| 7/12 | 42 | 285 | 0 | 0 | 30 | 139 | 0 | 0 | 126 | 3,311 |
| 7/13 | 33 | 318 | 0 | 0 | 24 | 163 | 0 | 0 | 96 | 3,407 |
| 7/14 | 30 | 348 | 0 | 0 | 6 | 169 | 0 | 0 | 162 | 3,569 |
| 7/15 | 48 | 396 | 0 | 0 | 60 | 229 | 12 | 12 | 72 | 3,641 |
| 7/16 | 18 | 414 | 0 | 0 | 6 | 235 | 0 | 12 | 96 | 3,737 |
| 7/17 | 25 | 439 | 0 | 0 | 28 | 263 | 0 | 12 | 80 | 3,817 |
| 7/18 | 30 | 469 | 0 | 0 | 24 | 287 | 0 | 12 | 78 | 3,895 |
| 7/19 | 66 | 535 | 0 | 0 | 19 | 306 | 0 | 12 | 36 | 3,931 |
| 7/20 | 24 | 559 | 0 | 0 | 36 | 342 | 0 | 12 | 60 | 3,991 |
| 7/21 | 72 | 631 | 0 | 0 | 42 | 384 | 0 | 12 | 36 | 4,027 |
| 7/22 | 90 | 721 | 0 | 0 | 144 | 528 | 0 | 12 | 12 | 4,039 |
| 7/23 | 66 | 787 | 0 | 0 | 54 | 582 | 6 | 18 | 84 | 4,123 |
| 7/24 | 96 | 883 | 0 | 0 | 114 | 696 | 0 | 18 | 42 | 4,165 |
| 7/25 | 54 | 937 | 0 | 0 | 84 | 780 | 0 | 18 | 60 | 4,225 |
| 7/26 | 42 | 979 | 0 | 0 | 66 | 846 | 0 | 18 | 30 | 4,255 |
| 7/27 | 12 | 991 | 0 | 0 | 30 | 876 | 0 | 18 | 6 | 4,261 |
| 7/28 | 36 | 1,027 | 0 | 0 | 42 | 918 | 0 | 18 | 18 | 4,279 |
| 7/29 | 30 | 1,057 | 0 | 0 | 84 | 1,002 | 6 | 24 | 6 | 4,285 |
| 7/30 | 7 | 1,064 | 0 | 0 | 66 | 1,068 | 0 | 24 | 12 | 4,297 |
| 7/31 | 12 | 1,076 | 0 | 0 | 66 | 1,134 | 0 | 24 | 24 | 4,321 |

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Table 5.–Page 3 of 3.

| Date | Chinook | | Coho | | Pink | | Chum | | Dolly Varden | |
|-------|---------|------------|-------|------------|-------|------------|-------|------------|--------------|------------|
| | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative | Daily | Cumulative |
| 8/1 | 0 | 1,076 | 0 | 0 | 102 | 1,236 | 0 | 24 | 18 | 4,339 |
| 8/2 | 18 | 1,094 | 0 | 0 | 102 | 1,338 | 0 | 24 | 0 | 4,339 |
| 8/3 | 6 | 1,100 | 0 | 0 | 96 | 1,434 | 0 | 24 | 0 | 4,339 |
| 8/4 | 12 | 1,112 | 0 | 0 | 199 | 1,633 | 0 | 24 | 0 | 4,339 |
| 8/5 | 6 | 1,118 | 0 | 0 | 162 | 1,795 | 0 | 24 | 0 | 4,339 |
| 8/6 | 0 | 1,118 | 0 | 0 | 174 | 1,969 | 0 | 24 | 12 | 4,351 |
| 8/7 | 6 | 1,124 | 0 | 0 | 48 | 2,017 | 0 | 24 | 0 | 4,351 |
| 8/8 | 0 | 1,124 | 0 | 0 | 125 | 2,142 | 0 | 24 | 0 | 4,351 |
| 8/9 | 0 | 1,124 | 0 | 0 | 372 | 2,514 | 0 | 24 | 0 | 4,351 |
| 8/10 | 0 | 1,124 | 0 | 0 | 381 | 2,895 | 1 | 25 | 0 | 4,351 |
| 8/11 | 18 | 1,142 | 0 | 0 | 444 | 3,339 | 0 | 25 | 0 | 4,351 |
| 8/12 | 12 | 1,154 | 0 | 0 | 1,014 | 4,353 | 0 | 25 | 6 | 4,357 |
| 8/13 | 0 | 1,154 | 0 | 0 | 264 | 4,617 | 0 | 25 | 0 | 4,357 |
| 8/14 | 0 | 1,154 | 0 | 0 | 402 | 5,019 | 0 | 25 | 6 | 4,363 |
| 8/15 | 6 | 1,160 | 0 | 0 | 438 | 5,457 | 0 | 25 | 0 | 4,363 |
| 8/16 | 12 | 1,172 | 0 | 0 | 600 | 6,057 | 0 | 25 | 0 | 4,363 |
| Total | | 1,172 | | 0 | | 6,057 | | 25 | | 4,363 |

Note: The Chignik River weir was removed after the last full day of counts on 8/16. No post-weir estimates were produced for Chinook, coho, pink, or chum salmon.

Table 6.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, by year, 1980–2021.

| Year | Escapement ^a | | | | |
|------|-------------------------|-------------------|-------------------|-------------------|---------------------------|
| | Chinook ^b | Coho ^c | Pink ^c | Chum ^c | Dolly Varden ^c |
| 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 |

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Table 6.–Page 2 of 2.

| Year | Escapement ^a | | | | |
|-----------------------|-------------------------|-------------------|-------------------|-------------------|---------------------------|
| | Chinook ^b | Coho ^c | Pink ^c | Chum ^c | Dolly Varden ^c |
| 2016 | 1,843 | 30,291 | 486 | 114 | 24,625 |
| 2017 | 1,137 | 33,270 | 123,531 | 615 | 7,664 |
| 2018 | 825 | 64,214 | 3,222 | 54 | 4,550 |
| 2019 | 1,517 | 282 | 18,073 | 67 | 6,242 |
| 2020 | 1,278 | 6,964 | 10,614 | 118 | 4,919 |
| 2021 ^d | 1,172 | 0 | 6,057 | 25 | 4,363 |
| Averages ^e | | | | | |
| 2001–2020 | 2,846 | 22,857 | 14,508 | 140 | 14,683 |
| 2011–2020 | 1,698 | 32,892 | 18,974 | 137 | 15,864 |
| 2016–2020 | 1,320 | 27,004 | 31,185 | 194 | 9,600 |

^a A video monitoring system was installed at the Chignik weir in 1994.

^b 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.

^c 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 in this table for pink, coho, and chum salmon, or Dolly Varden.

^d The Chignik weir was removed on August 16, earlier than the average removal time, due to environmental constraints.

^e Pink salmon averages in this table represent odd years only.

Table 7.—Total Chignik River sockeye salmon escapement and escapement goals, based on postseason analysis, by run and year, 1980–2021.

| 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 | 662,660 | 377,438 | 1,040,098 |
| 1992 | 360,681 | 403,755 | 764,436 |
| 1993 | 364,261 | 333,116 | 697,377 |
| 1994 | 769,462 | 197,447 | 966,909 |
| 1995 | 366,496 | 373,425 | 739,921 |
| 1996 | 464,748 | 284,389 | 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 | 384,088 | 341,132 | 725,220 |
| 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 ^a | 534,088 | 589,810 | 1,123,898 |
| 2016 | 418,290 | 354,884 | 773,174 |
| 2017 | 453,257 | 339,303 | 792,560 |
| 2018 ^a | 263,979 | 275,718 | 539,697 |
| 2019 ^b | 345,918 | 336,077 | 681,995 |

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Table 7.–Page 2 of 2.

| Year | Early run | Late run | Total |
|-----------------|-----------------|-----------------|-----------------|
| 2020 | 137,213 | 193,765 | 330,978 |
| 2021 | 244,384 | 396,558 | 640,942 |
| Escapement goal | 350,000–450,000 | 220,000–400,000 | 570,000–850,000 |
| Averages | | | |
| 2001–2020 | 393,253 | 325,439 | 718,692 |
| 2011–2020 | 374,228 | 336,708 | 710,936 |
| 2016–2020 | 323,731 | 298,577 | 622,309 |

^a Due to early removal of the weir in 2015 (August 20) and 2018 (August 18), post-weir escapement estimates for sockeye salmon included DIDSON counts. These were the only years that included a DIDSON estimate.

^b Beginning in 2019, The late-run escapement objective includes the late-run sockeye salmon sustainable escapement goal (SEG; 200,000–400,000) plus an additional 20,000 sockeye salmon in-river run goal (IRRG; 10,000 in August and 10,000 in September) to meet late season subsistence needs. From 2016–2018, the IRRG was 75,000 fish (25,000 in August and 50,000 in September). Prior to 2016, the IRRG was 50,000 fish.

Table 8.—Estimated peak sockeye salmon escapement estimates for Black Lake tributaries, 1980–2021.

| 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 | 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 | 34,000 | ND | 9,300 | ND | 5,000 | 5,000 | 53,300 |
| 2017 | 109,000 | ND | 6,900 | 104,600 | 9,800 | 35,000 | 265,300 |
| 2018 | 4,500 | ND | 85,000 | 118,000 | 35,000 | 16,000 | 258,500 |
| 2019 | 9,200 | ND | 24,500 | 107,900 | 14,200 | 2,100 | 157,900 |

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Table 8.–Page 2 of 2.

| Year | Fan Creek | Milk Creek | Boulevard Creek | Alec River | Conglomerate Creek | Broad Creek | Total |
|-----------|--------------|---------------|--------------------|---------------|-----------------------|----------------|---------|
| 2020 | 800 | ND | 6,100 | 54,700 | 3,900 | 10,500 | 76,000 |
| 2021 | 4,000 | ND | 8,000 | 42,000 | 3,200 | 3,000 | 60,200 |
| Averages | | | | | | | |
| 2001–2020 | 30,845 | 5,999 | 40,877 | 145,322 | 8,489 | 14,688 | 222,912 |
| 2011–2020 | 32,600 | 4,500 | 33,520 | 147,322 | 9,610 | 13,289 | 221,180 |
| 2016–2020 | 31,500 | ND | 26,360 | 96,300 | 13,580 | 13,720 | 162,200 |

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

Table 9.—Estimated peak sockeye salmon escapement estimates for Chignik Lake and Black River tributaries, 1980–2021.

| Year | Black River | | | | Chignik Lake | | | |
|------|-------------------|--------------|--------------------|---------|----------------|---------------|-------------------|---------|
| | Bearskin Creek | West Fork | Chiaktuak Creek | Total | Clark River | Home Creek | Hatchery Beach | Total |
| 1980 | 3,600 | 33,000 | 40,400 | 77,000 | ND | ND | ND | ND |
| 1981 | 950 | 1,500 | 18,700 | 21,150 | ND | ND | ND | ND |
| 1982 | 1,066 | 10,791 | 5,000 | 16,857 | ND | ND | ND | ND |
| 1983 | ND | ND | 6,000 | 6,000 | ND | ND | ND | ND |
| 1984 | ND | ND | 8,200 | 8,200 | ND | ND | ND | ND |
| 1985 | 350 | 450 | 1,200 | 2,000 | ND | ND | ND | ND |
| 1986 | ND | ND | 8,300 | 8,300 | ND | ND | ND | ND |
| 1987 | ND | ND | 1,000 | 1,000 | ND | ND | ND | ND |
| 1988 | ND | ND | 4,600 | 4,600 | ND | ND | ND | ND |
| 1989 | ND | ND | 2,100 | 2,100 | ND | ND | ND | ND |
| 1990 | 300 | 0 | 50 | 350 | ND | ND | ND | ND |
| 1991 | ND | ND | ND | ND | ND | ND | ND | ND |
| 1992 | ND | ND | ND | ND | ND | ND | ND | ND |
| 1993 | ND | ND | 16,000 | 16,000 | ND | 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 | ND |
| 2003 | ND | ND | 2,000 | 2,000 | ND | 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 | 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 |

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Table 9.–Page 2 of 2

| Year | Black River | | | | Chignik Lake | | | |
|-----------------|-------------------|--------------|--------------------|--------|----------------|---------------|-------------------|---------|
| | Bearskin Creek | West Fork | Chiaktuak Creek | Total | Clark River | Home Creek | Hatchery Beach | Total |
| 2016 | 900 | 7,290 | 10,640 | 18,830 | 16,760 | 500 | 57,300 | 74,560 |
| 2017 | 3,575 | 5,700 | 6,500 | 15,775 | 12,200 | 3,790 | 104,000 | 119,990 |
| 2018 | 1,500 | 12,100 | 1,650 | 15,250 | 9,300 | 4,500 | 13,700 | 27,500 |
| 2019 | 0 | 9,600 | 21,600 | 31,200 | 13,100 | ND | 124,000 | 137,100 |
| 2020 | 1,000 | 4,400 | 8,500 | 13,900 | 2,800 | 700 | 35,600 | 39,100 |
| 2021 | ND | 1,900 | 20,000 | 21,900 | 19,000 | 7,000 | 34,000 | 60,000 |
| <i>Averages</i> | | | | | | | | |
| 2001–2020 | 1,913 | 8,680 | 13,155 | 22,693 | 23,475 | 3,934 | 62,773 | 82,566 |
| 2011–2020 | 1,393 | 8,914 | 13,974 | 24,482 | 24,098 | 2,372 | 71,160 | 97,393 |
| 2016–2020 | 1,395 | 7,818 | 9,778 | 18,991 | 10,832 | 2,373 | 66,920 | 79,650 |

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

Table 10.—Estimated Chignik Management Area peak pink salmon combined escapement of index streams, and escapement objectives, 2006–2021.

| Year | Total estimated peak escapement ^a |
|------------------------------|--|
| 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 |
| 2017 | 586,000 |
| 2018 | 41,900 |
| 2019 | 415,300 |
| 2020 | 118,496 |
| 2021 | 462,000 |
| Odd-year SEG | 260,000–450,000 |
| Odd-year average (2011–2019) | 381,820 |

^a Calculated using peak aerial surveys from the 8 index streams established in Schaberg et al. (2015).

Table 11.–Estimated Chignik Management Area peak chum salmon combined escapement of index streams, and escapement objectives, 2006–2021.

| Year | Total estimated peak escapement ^a |
|-------------------|--|
| 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 |
| 2017 | 96,900 |
| 2018 | 33,400 |
| 2019 | 98,000 |
| 2020 | 39,675 |
| 2021 | 122,000 |
| SEG | 45,000–110,000 |
| Average 2011–2020 | 83,070 |

^a Calculated using peak aerial surveys from the 6 index streams established in Schaberg et al. (2015).

Table 12.—Total annual Chignik Management Area commercial salmon harvests (including home pack and ADF&G's test fishery harvests), by species and year, 1980–2021.

| Year | Number of permits | 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 |

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Table 12.–Page 2 of 2

| Year | Number of permits | Landings | Harvest | | | | | Total |
|-----------------------|-------------------|----------|---------|-----------|---------|-----------|---------|-----------|
| | | | Chinook | Sockeye | Coho | Pink | Chum | |
| 2016 | 70 | 2,554 | 20,719 | 1,394,091 | 94,397 | 140,913 | 118,435 | 1,768,555 |
| 2017 | 68 | 2,408 | 3,946 | 897,489 | 226,829 | 7,077,924 | 609,236 | 8,815,424 |
| 2018 | 6 | 6 | 0 | 128 | 1 | 6 | 924 | 1,059 |
| 2019 | 51 | 1,503 | 4,312 | 638,784 | 248,282 | 2,452,838 | 157,517 | 3,501,733 |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 31 | 439 | 1,422 | 118,839 | 84,453 | 1,321,454 | 43,187 | 1,569,355 |
| Averages ^a | | | | | | | | |
| 2001–2020 | 57 | 2,024 | 4,621 | 1,116,362 | 88,088 | 1,869,255 | 157,603 | 2,499,425 |
| 2011–2020 | 55 | 1,896 | 6,026 | 1,180,560 | 92,644 | 2,657,202 | 163,786 | 2,834,692 |
| 2016–2020 | 39 | 1,294 | 5,795 | 586,098 | 113,902 | 4,765,381 | 177,222 | 2,817,354 |

^a Pink salmon averages represent odd years only.

Table 13.—Annual Chignik Management Area Chinook salmon harvest, 1980–2021.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|------|-----------|--------|------------------|---------|-----------|---------------------|--------|---------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | 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 |
| 2017 | 0 | 0 | 3,908 | 36,604 | 38 | 651 | 3,946 | 37,255 |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2019 | 0 | 0 | 4,286 | 39,024 | 26 | 348 | 4,312 | 39,372 |

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Table 13.–Page 2 of 2

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|-----------|-----------|--------|------------------|--------|-----------|---------------------|--------|--------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | Number | Pounds |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 0 | 0 | 1,420 | 10,029 | 2 | 14 | 1,422 | 10,043 |
| Averages | | | | | | | | |
| 2001–2020 | 2 | 36 | 4,533 | 47,130 | 86 | 1,449 | 4,621 | 48,616 |
| 2011–2020 | 2 | 24 | 5,974 | 53,493 | 50 | 812 | 6,026 | 54,328 |
| 2016–2020 | 0 | 0 | 5,776 | 46,143 | 20 | 295 | 5,795 | 46,438 |

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

^a 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.

Table 14.—Chignik Management Area Chinook salmon harvest (including home pack and ADF&G’s test fishery catches), by district and year, 1980–2021.

| 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 |
| 2017 | 447 | 1,125 | 534 | 1,594 | 246 | 3,946 |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2019 | 1,140 | 349 | 862 | 1,281 | 680 | 4,312 |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 40 | 623 | 44 | 679 | 36 | 1,422 |
| Averages | | | | | | |
| 2001–2020 | 1,095 | 1,761 | 236 | 1,391 | 137 | 4,621 |
| 2011–2020 | 668 | 3,009 | 322 | 1,769 | 258 | 6,026 |
| 2016–2020 | 456 | 3,468 | 362 | 1,064 | 446 | 5,795 |

Table 15.—Chignik Management Area Chinook salmon harvest (including home pack and ADF&G’s test fishery catches), by district and statistical week, 2021.

| Date | Deliveries | District | | | | |
|--------------------|------------|-------------|---------|----------------|---------|------------|
| | | Chignik Bay | Central | Eastern | Western | Perryville |
| 7/4–7/10 | 0 | | | Fishery closed | | |
| 7/11–7/17 | a | b | a | b | a | a |
| 7/18–7/24 | 5 | – | a | 39 | – | – |
| 7/25–7/31 | 8 | – | 332 | 5 | – | – |
| 8/1–8/7 | 26 | 21 | a | – | 365 | – |
| 8/8–8/14 | 33 | 10 | a | – | 148 | 26 |
| 8/15–8/21 | 41 | 6 | a | – | 164 | a |
| 8/22–8/28 | 6 | a | a | – | a | a |
| 8/29–9/4 | 0 | | | Fishery closed | | |
| 9/5–9/11 | 0 | | | Fishery closed | | |
| 9/12–9/18 | 0 | | | Fishery closed | | |
| Total ^c | 119 | 40 | 623 | 44 | 679 | 36 |

Note: En dashes indicate no commercial fishing activity reported.

^a Confidentiality requirements prevent the release of this information.

^b District closed during this time period.

^c Totals include confidential information.

Table 16.—Total harvest of sockeye salmon considered by regulation to be Chignik-bound in the Chignik, Cape Igvak, and Southeastern District Mainland (SEDM) commercial salmon fisheries, 1970–2021.

| Year | Test fish | | Commercial catch | | Home pack | | Total CMA harvest | | Cape Igvak ^a | | SEDM ^b | | Total Chignik-bound | |
|------|-----------|--------|------------------|------------|-----------|---------------------|-------------------|------------|-------------------------|-----------|-------------------|-----------|---------------------|------------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^c | 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 16.—Page 2 of 2.

| Year | Test fish | | Commercial catch | | Home pack | | Total CMA harvest | | Cape Igvak ^a | | SEDM ^b | | Total Chignik-Bound | |
|-----------------------|-----------|--------|------------------|------------|-----------|---------------------|-------------------|------------|-------------------------|-----------|-------------------|-----------|---------------------|------------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^c | Number | Pounds | Number | Pounds | Number | Pounds | Number | Pounds |
| 2001 ^d | 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 | 17,055,904 | 587 | 3,928 | 2,405,151 | 17,055,904 | 354,179 | 2,326,956 | 169,029 | 1,109,867 | 2,928,359 | 20,532,129 |
| 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 |
| 2017 | 2,448 | 15,639 | 894,933 | 5,483,094 | 108 | 599 | 897,489 | 5,499,332 | 118,101 | 678,384 | 43,730 | 253,186 | 1,059,320 | 6,430,902 |
| 2018 | 0 | 0 | 128 | 593 | 0 | 0 | 128 | 593 | 0 | 0 | 0 | 0 | 128 | 593 |
| 2019 | 0 | 0 | 638,772 | 3,615,965 | 12 | 70 | 638,784 | 3,616,035 | 0 | 0 | 0 | 0 | 638,784 | 3,616,035 |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 0 | 0 | 118,785 | 616,053 | 54 | 294 | 118,839 | 616,347 | 0 | 0 | 0 | 0 | 118,839 | 616,347 |
| Averages ^e | | | | | | | | | | | | | | |
| 2001–2020 | 5,329 | 34,058 | 1,110,501 | 7,387,782 | 532 | 3,459 | 1,116,362 | 7,423,328 | 145,561 | 866,841 | 64,717 | 424,873 | 1,326,640 | 8,699,227 |
| 2011–2020 | 3,970 | 23,979 | 1,176,393 | 7,704,252 | 197 | 1,258 | 1,180,560 | 7,725,548 | 159,612 | 982,050 | 68,874 | 444,391 | 1,409,046 | 9,155,929 |
| 2016–2020 | 2,104 | 12,212 | 583,901 | 3,461,629 | 93 | 522 | 586,098 | 3,474,362 | 83,314 | 470,523 | 27,704 | 162,475 | 697,117 | 4,107,360 |

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

^a 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%.

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

^c 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.

^d Due to a strike by Alaska Peninsula fish harvesters, 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.

^e Averages do not include years in which Cape Igvak, SEDM, or both did not fish.

Table 17.—Total annual Chignik Management Area sockeye salmon harvest (including home pack and ADF&G’s test fishery catches), by district, 1980–2021.

| 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 |
| 2017 | 351,049 | 180,039 | 122,798 | 151,644 | 91,959 | 897,489 |
| 2018 | a | a | a | a | a | 128 |
| 2019 | 275,304 | 83,040 | 43,803 | 196,391 | 40,246 | 638,784 |

-continued-

Table 17.–Page 2 of 2.

| Year | District | | | | | Total |
|-----------|-------------|---------|---------|---------|------------|-----------|
| | Chignik Bay | Central | Eastern | Western | Perryville | |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 63,772 | 3,460 | 171 | 49,708 | 1,728 | 118,839 |
| Averages | | | | | | |
| 2001–2020 | 789,186 | 226,240 | 38,831 | 104,139 | 16,715 | 1,116,362 |
| 2011–2020 | 739,862 | 314,946 | 59,678 | 164,189 | 33,045 | 1,180,560 |
| 2016–2020 | 342,071 | 147,957 | 51,308 | 138,023 | 53,232 | 586,098 |

^a Confidentiality requirements prevent the release of this information.

Table 18.—Chignik Management Area sockeye salmon harvest (including home pack and ADF&G’s test fishery catches), by district and statistical week, 2021.

| Date | Deliveries | District | | | | |
|--------------------------|------------|---------------|----------------|------------|---------------|--------------|
| | | Chignik Bay | Central | Eastern | Western | Perryville |
| 7/4–7/10 | 0 | | Fishery closed | | | |
| 7/11–7/17 | a | b | a | b | a | a |
| 7/18–7/24 | 7 | 11,131 | 100 | 51 | – | – |
| 7/25–7/31 | 10 | – | 443 | 69 | – | – |
| 8/1–8/7 | 73 | – | a | a | 26,624 | a |
| 8/8–8/14 | 143 | 29,366 | a | a | 16,352 | 1,414 |
| 8/15–8/21 | 139 | 17,415 | 2,646 | – | 5,976 | a |
| 8/22–8/28 | 54 | 5,860 | a | – | 756 | a |
| 8/29–9/4 | 0 | | Fishery closed | | | |
| 9/5–9/11 | 0 | | Fishery closed | | | |
| 9/12–9/18 | 0 | | Fishery closed | | | |
| Total^c | 426 | 63,772 | 3,460 | 171 | 49,708 | 1,728 |

Note: En dashes indicate no commercial fishing activity reported.

^a Confidentiality requirements prevent the release of this information.

^b District closed during this time period.

^c Totals include confidential information.

Table 19.—Harvest of sockeye salmon considered by regulation to be Chignik-bound: Cape Igvak (June 1–July 5) and Southeastern District Mainland (SEDM; June 1–July 25) commercial salmon fisheries from 1978–2021.

| Year | Chignik ^a | | Cape Igvak ^a | | SEDM ^a | | Total |
|-------------------|----------------------|---------|-------------------------|---------|--------------------|---------|-----------|
| | Catch | Percent | Catch ^b | Percent | Catch ^c | 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 ^d | 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 ^e | 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 ^f | 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 ^g | 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 |
| 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 |

-continued-

Table 19.–Page 2 of 2.

| Year | Chignik ^a | | Cape Igvak ^a | | SEDM ^a | | Total |
|-----------------------|----------------------|---------|-------------------------|---------|--------------------|---------|-----------|
| | Catch | Percent | Catch ^b | Percent | Catch ^c | Percent | |
| 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 |
| 2017 | 679,435 | 80.8 | 118,101 | 14.0 | 43,730 | 6.4 | 841,266 |
| 2018 | 128 | 100.0 | 0 | 0.0 | 0 | 0.0 | 128 |
| 2019 | 185,567 | 100.0 | 0 | 0.0 | 0 | 0.0 | 185,567 |
| 2020 ^h | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 |
| 2021 | 118,839 | 100.0 | 0 | 0.0 | 0 | 0.0 | 118,839 |
| Averages ⁱ | | | | | | | |
| 2001–2020 | 897,358 | 80.8 | 194,082 | 13 | 94,963 | 7 | 1,297,414 |
| 2011–2020 | 954,185 | 78.4 | 266,020 | 13 | 114,790 | 8 | 1,885,118 |
| 2016–2020 | 406,491 | 71.1 | 208,286 | 17 | 69,260 | 7 | 1,200,926 |

^a 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 because they are not included in the allocation scheme.

^b 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.

^c 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.

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

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

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

^g 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).

^h During the 2020 Kodiak BOF meeting, the allocation time frame for Chignik-bound sockeye salmon in the Cape Igvak section was changed to June 1–July 5.

ⁱ Recent averages (excluding Chignik catch) do not include years in which the Cape Igvak and SEDM remained closed.

Table 20.—Chignik sockeye salmon escapement, total harvest considered Chignik-bound, and total run, 1970–2021.

| Year | Early run | | | Late run | | | Total run ^{a,b,c} | | |
|------|------------|-----------|-----------|------------|-----------|-----------|----------------------------|-----------|-----------|
| | Escapement | Harvest | Total | Escapement | Harvest | Total | Escapement | Harvest | Total |
| 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 20.—Page 2 of 2.

| Year | Early run | | | Late run | | | Total run ^{a,b,c} | | |
|-------------------|------------|-----------|-----------|------------|-----------|-----------|----------------------------|-----------|-----------|
| | Escapement | Harvest | Total | Escapement | Harvest | Total | Escapement | Harvest | Total |
| 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 ^d | 360,381 | 49,753 | 410,134 | 291,228 | 570,586 | 861,814 | 651,609 | 620,339 | 1,271,948 |
| 2015 ^d | 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 ^d | 418,290 | 968,018 | 1,386,308 | 348,023 | 819,333 | 1,167,356 | 766,313 | 1,787,351 | 2,553,664 |
| 2017 ^d | 453,257 | 695,497 | 1,148,754 | 339,303 | 363,823 | 703,126 | 792,560 | 1,059,320 | 1,851,880 |
| 2018 ^e | 263,979 | 128 | 264,107 | 275,718 | 0 | 275,718 | 539,697 | 128 | 539,825 |
| 2019 ^e | 345,918 | 14,996 | 360,914 | 336,077 | 623,788 | 959,866 | 681,995 | 638,784 | 1,320,779 |
| 2020 ^e | 137,213 | 0 | 137,213 | 193,765 | 0 | 193,765 | 330,978 | 0 | 330,978 |
| 2021 ^e | 244,384 | 41 | 244,425 | 396,558 | 118,798 | 515,356 | 640,942 | 118,839 | 759,781 |
| Averages | | | | | | | | | |
| 2001–2020 | 394,958 | 715,141 | 1,110,098 | 325,790 | 611,145 | 936,934 | 720,747 | 1,326,286 | 2,047,033 |
| 2011–2020 | 374,228 | 826,495 | 1,200,723 | 336,708 | 581,843 | 918,551 | 710,936 | 1,408,338 | 2,119,274 |
| 2016–2020 | 323,731 | 335,728 | 659,459 | 298,577 | 361,389 | 659,966 | 622,309 | 697,117 | 1,319,425 |

^a 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.

^b Does not include subsistence-caught fish.

^c Includes harvests from the Chignik Lagoon test fishery and fish retained for home pack.

^d 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. From 2014 through 2017, inseason genetic samples were used to determine the apportionment of the 2 runs instead of the July 4 date.

^e Starting in 2018, the apportionment of the 2 runs was determined inseason using a model developed from genetic information from all previous years, and numbers were adjusted post season after processing of inseason genetic information occurred.

Table 21.—Chignik sockeye salmon forecasts and actual runs, in millions of fish, by run and year, 1994–2021.

| 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 |
| 2017 | 1.26 | 1.15 | -0.11 | 0.94 | 0.70 | -0.24 | 2.20 | 1.85 | -0.35 |
| 2018 | 0.85 | 0.26 | -0.59 | 0.90 | 0.28 | -0.63 | 1.75 | 0.54 | -1.22 |
| 2019 | 0.83 | 0.36 | -0.47 | 0.90 | 0.96 | 0.06 | 1.73 | 1.32 | -0.41 |
| 2020 | 0.50 | 0.14 | -0.36 | 0.80 | 0.19 | -0.61 | 1.30 | 0.33 | -0.97 |
| 2021 | 0.44 | 0.24 | -0.20 | 0.47 | 0.52 | 0.05 | 0.91 | 0.76 | -0.15 |
| Averages | | | | | | | | | |
| 2011–2020 | 1.25 | 1.20 | -0.05 | 1.00 | 0.92 | -0.09 | 2.25 | 2.12 | -0.14 |
| 2016–2020 | 1.05 | 0.66 | -0.39 | 0.93 | 0.66 | -0.27 | 1.98 | 1.32 | -0.66 |

Table 22.—Chignik Management Area coho salmon harvest, by year, 1980–2021.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|------|-----------|--------|------------------|-----------|-----------|---------------------|---------|-----------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | 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 |
| 2017 | 0 | 0 | 226,730 | 1,561,675 | 99 | 766 | 226,829 | 1,562,441 |
| 2018 | 0 | 0 | 1 | 4 | 0 | 0 | 1 | 4 |
| 2019 | 0 | 0 | 248,281 | 1,581,396 | 1 | 6 | 248,282 | 1,581,402 |

-continued-

Table 22.–Page 2 of 2.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|-----------|-----------|--------|------------------|---------|-----------|---------------------|---------|---------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | Number | Pounds |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 0 | 0 | 84,452 | 531,432 | 1 | 4 | 84,453 | 531,436 |
| Averages | | | | | | | | |
| 2001–2020 | 2 | 14 | 88,054 | 633,000 | 32 | 231 | 88,088 | 633,257 |
| 2011–2020 | 0 | 0 | 92,629 | 638,774 | 15 | 123 | 92,644 | 638,896 |
| 2016–2020 | 0 | 0 | 113,882 | 760,290 | 20 | 154 | 113,902 | 760,445 |

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

^a 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 23.—Chignik Management Area coho salmon harvest (including home pack and ADF&G’s test fishery catches), by district and year, 1980–2021.

| 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 |
| 2017 | 5,488 | 11,677 | 1,626 | 164,510 | 43,528 | 226,829 |
| 2018 ^a | ^a | ^a | ^a | ^a | ^a | ^a |
| 2019 | 32,365 | 47,639 | 32,142 | 116,720 | 19,416 | 248,282 |

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Table 23.–Page 2 of 2.

| Year | District | | | | | Total |
|-----------|-------------|---------|---------|---------|------------|---------|
| | Chignik Bay | Central | Eastern | Western | Perryville | |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 4,227 | 4,248 | 166 | 73,245 | 2,567 | 84,453 |
| Averages | | | | | | |
| 2001–2020 | 11,122 | 14,698 | 2,401 | 57,256 | 7,247 | 88,088 |
| 2011–2020 | 6,912 | 19,055 | 3,982 | 60,531 | 12,458 | 92,644 |
| 2016–2020 | 10,614 | 25,208 | 8,456 | 77,043 | 21,057 | 113,902 |

^a Confidentiality requirements prevent the release of this information.

Table 24.—Chignik Management Area coho salmon harvest (including home pack and ADF&G’s test fishery catches), by district and statistical week, 2021.

| Date | Deliveries | District | | | | |
|--------------------------|------------|--------------|--------------|----------------|---------------|--------------|
| | | Chignik Bay | Central | Eastern | Western | Perryville |
| 7/4–7/10 | 0 | | | Fishery closed | | |
| 7/11–7/17 | a | b | a | b | a | a |
| 7/18–7/24 | 0 | – | – | – | – | – |
| 7/25–7/31 | 5 | – | 7 | a | – | – |
| 8/1–8/7 | 59 | 104 | a | a | a | – |
| 8/8–8/14 | 117 | 619 | a | a | a | 1,422 |
| 8/15–8/21 | 136 | 1,565 | 2,650 | – | a | a |
| 8/22–8/28 | 53 | 1,939 | a | – | a | a |
| 8/29–9/4 | 0 | | | Fishery closed | | |
| 9/5–9/11 | 0 | | | Fishery closed | | |
| 9/12–9/18 | 0 | | | Fishery closed | | |
| Total^c | 370 | 4,227 | 4,248 | 166 | 73,245 | 2,567 |

Note: En dashes indicate no commercial fishing activity reported.

^a Confidentiality requirements prevent the release of this information.

^b District closed during this time period.

^c Totals include confidential information.

Table 25.—Chignik Management Area pink salmon harvest (including home pack and ADF&G’s test fishery catches), by district and year, 1980–2021.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|------|-----------|--------|------------------|------------|-----------|---------------------|-----------|------------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | 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 |
| 2017 | 184 | 551 | 7,077,740 | 25,305,344 | 0 | 0 | 7,077,924 | 25,305,895 |
| 2018 | 0 | 0 | 6 | 15 | 0 | 0 | 6 | 15 |
| 2019 | 0 | 0 | 2,452,838 | 7,583,891 | 0 | 0 | 2,452,838 | 7,583,891 |

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Table 25.–Page 2 of 2.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|-------------------|-----------|--------|------------------|------------|-----------|---------------------|-----------|------------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | Number | Pounds |
| 2020 | ND | ND | 0 | 0 | ND | ND | 0 | 0 |
| 2021 | 0 | 0 | 1,321,454 | 4,165,914 | 0 | 0 | 1,321,454 | 4,165,914 |
| Odd-year averages | | | | | | | | |
| 2001–2019 | 90 | 312 | 1,869,100 | 6,275,767 | 65 | 242 | 1,869,255 | 6,276,321 |
| 2011–2019 | 64 | 181 | 2,657,138 | 8,845,246 | 0 | 0 | 2,657,202 | 8,845,427 |
| 2016–2019 | 92 | 276 | 4,765,289 | 16,444,618 | 0 | 0 | 4,765,381 | 16,444,893 |

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

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

Table 26.—Chignik Management Area pink salmon harvest (including home pack and ADF&G’s test fishery catches), by district and year, 1980–2021.

| Year | Chignik Bay | Central | Eastern | Western | Perryville | Total |
|-------------------|--------------|--------------|--------------|--------------|--------------|-----------|
| 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 |
| 2017 | 432,898 | 728,427 | 574,879 | 2,930,711 | 2,411,009 | 7,077,924 |
| 2018 | ^a | ^a | ^a | ^a | ^a | 6 |
| 2019 | 153,279 | 380,257 | 735,710 | 925,305 | 258,287 | 2,452,838 |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 89,975 | 71,841 | 8,447 | 1,079,397 | 71,794 | 1,321,454 |
| Odd-year averages | | | | | | |
| 2001–2019 | 124,276 | 399,872 | 199,285 | 804,653 | 341,169 | 1,869,255 |
| 2011–2019 | 154,980 | 447,810 | 315,191 | 1,082,115 | 657,106 | 2,657,202 |
| 2016–2019 | 293,089 | 554,342 | 655,295 | 1,928,008 | 1,334,648 | 4,765,381 |

^a Confidentiality requirements prevent the release of this information.

Table 27.—Chignik Management Area pink salmon harvest (including home pack and ADF&G’s test fishery catches), by district and statistical week, 2021.

| Date | Deliveries | District | | | | |
|--------------------------|------------|---------------|---------------|----------------|------------------|---------------|
| | | Chignik Bay | Central | Eastern | Western | Perryville |
| 7/4–7/10 | 0 | | | Fishery closed | | |
| 7/11–7/17 | a | b | a | b | a | a |
| 7/18–7/24 | 7 | – | 162 | 364 | – | – |
| 7/25–7/31 | 10 | – | 1,310 | 1,432 | – | – |
| 8/1–8/7 | 78 | 6,650 | a | a | 217,267 | a |
| 8/8–8/14 | 145 | 33,850 | a | a | 410,975 | 44,713 |
| 8/15–8/21 | 140 | 37,422 | a | – | 404,278 | a |
| 8/22–8/28 | 55 | 12,053 | a | – | 46,862 | a |
| 8/31–9/4 | 0 | | | Fishery closed | | |
| 9/5–9/11 | 0 | | | Fishery closed | | |
| 9/12–9/18 | 0 | | | Fishery closed | | |
| Total^c | 438 | 89,975 | 71,841 | 8,447 | 1,079,397 | 71,794 |

Note: En dashes indicate no commercial fishing activity reported.

^a Confidentiality requirements prevent the release of this information.

^b District closed during this time period.

^c Totals include confidential information.

Table 28.—Chignik Management Area chum salmon harvest, by year, 1980–2021.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|------|-----------|--------|------------------|-----------|-----------|---------------------|---------|-----------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | 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 |
| 2017 | 66 | 495 | 609,105 | 4,643,283 | 65 | 514 | 609,236 | 4,644,292 |
| 2018 | 0 | 0 | 924 | 7,121 | 0 | 0 | 924 | 7,121 |
| 2019 | 0 | 0 | 157,517 | 1,037,197 | 0 | 0 | 157,517 | 1,037,197 |

-continued-

Table 28.—Page 2 of 2.

| Year | Test fish | | Commercial catch | | Home pack | | Total | |
|-----------|-----------|--------|------------------|-----------|-----------|---------------------|---------|-----------|
| | Number | Pounds | Number | Pounds | Number | Pounds ^a | Number | Pounds |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 0 | 0 | 43,187 | 279,236 | 0 | 0 | 43,187 | 279,236 |
| Averages | | | | | | | | |
| 2001–2020 | 15 | 130 | 157,560 | 1,195,508 | 28 | 209 | 157,603 | 1,195,847 |
| 2011–2020 | 11 | 86 | 163,744 | 1,219,442 | 31 | 229 | 163,786 | 1,219,758 |
| 2016–2020 | 17 | 127 | 177,193 | 1,298,548 | 13 | 103 | 177,222 | 1,298,778 |

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

^a 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 29.—Chignik Management Area chum salmon harvest (including home pack and ADF&G’s test fishery catches), by district and year, 1980–2021.

| 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 |
| 2017 | 16,879 | 102,373 | 141,406 | 265,306 | 83,272 | 609,236 |
| 2018 | ^a | ^a | ^a | ^a | ^a | 924 |
| 2019 | 12,205 | 52,173 | 15,249 | 50,675 | 27,215 | 157,517 |

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Table 29.—Page 2 of 2.

| Year | District | | | | | Total |
|-----------|-------------|---------|---------|---------|------------|---------|
| | Chignik Bay | Central | Eastern | Western | Perryville | |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 3,820 | 8,844 | 5,186 | 23,176 | 2,161 | 43,187 |
| Averages | | | | | | |
| 2001–2020 | 8,358 | 52,765 | 31,333 | 63,756 | 9,637 | 157,603 |
| 2011–2020 | 7,560 | 59,365 | 33,352 | 65,262 | 16,343 | 163,786 |
| 2016–2020 | 8,556 | 53,027 | 44,577 | 85,743 | 29,393 | 177,222 |

^a Confidentiality requirements prevent the release of this information.

Table 30.—Chignik Management Area chum salmon harvest (including home pack and ADF&G’s test fishery catches), by district and statistical week, 2021.

| Date | Deliveries | District | | | | |
|--------------------------|------------|--------------|--------------|----------------|---------------|--------------|
| | | Chignik Bay | Central | Eastern | Western | Perryville |
| 7/4–7/10 | 0 | | | Fishery closed | | |
| 7/11–7/17 | a | b | a | b | a | a |
| 7/18–7/24 | 3 | – | 4,010 | 3,491 | – | – |
| 7/25–7/31 | 6 | – | 3,471 | 1,622 | – | – |
| 8/1–8/7 | a | 941 | a | – | 7,080 | a |
| 8/8–8/14 | 3 | 1,477 | a | – | 9,208 | 1,020 |
| 8/15–8/21 | 12 | 1,118 | 527 | a | 5,542 | a |
| 8/22–8/28 | a | 284 | a | a | 452 | a |
| 8/31–9/4 | 0 | | | Fishery closed | | |
| 9/5–9/11 | 0 | | | Fishery closed | | |
| 9/12–9/18 | 0 | | | Fishery closed | | |
| Total^c | 0 | 3,820 | 8,844 | 5,186 | 23,176 | 2,161 |

Note: En dashes indicate no commercial fishing activity reported.

^a Confidentiality requirements prevent the release of this information.

^b District closed during this time period.

^c Totals include confidential information.

Table 31.—Value of the commercial salmon harvest, by species, and average value per active permit, in dollars, in the Chignik Management Area, 1970–2021.

| Year | Chinook | | Sockeye | | Coho | | Pink | | Chum | | Total value | Number of permits ^c | Value per permit |
|------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|-------------|--------------------------------|------------------|
| | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | | | |
| 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 |

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Table 31.–Page 2 of 2.

| Year | Chinook | | Sockeye | | Coho | | Pink | | Chum | | Total value | Number of permits ^c | Value per permit |
|-----------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|--------------------|----------------------|-------------|--------------------------------|------------------|
| | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | Total ^a | Average ^b | | | |
| 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 | 74,403 | 1,033 | 6,600,110 | 91,668 | 101,967 | 1,416 | 940,236 | 13,059 | 164,225 | 2,281 | 7,880,941 | 72 | 109,458 |
| 2016 | 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 |
| 2017 | 51,611 | 770 | 7,182,853 | 107,207 | 546,586 | 8,158 | 6,579,390 | 98,200 | 1,439,418 | 21,484 | 15,799,858 | 67 | 235,819 |
| 2018 | 0 | 0 | 860 | 143 | 1 | 1 | 3 | 1 | 1,235 | 206 | 3,041 | 6 | 507 |
| 2019 | 31,219 | 612 | 5,060,150 | 99,219 | 506,047 | 9,922 | 2,047,651 | 40,150 | 363,019 | 7,118 | 8,008,086 | 51 | 157,021 |
| 2020 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2021 | 2,812 | 91 | 869,049 | 28,034 | 143,488 | 4,629 | 1,333,092 | 43,003 | 120,071 | 3,873 | 2,468,512 | 31 | 79,629 |
| Averages | | | | | | | | | | | | | |
| 2001–2020 | 45,048 | 668 | 7,295,012 | 105,795 | 228,008 | 3,643 | 847,873 | 13,570 | 382,907 | 5,975 | 8,798,895 | 66 | 129,660 |
| 2011–2020 | 54,366 | 802 | 8,916,368 | 131,112 | 220,978 | 3,490 | 1,200,434 | 18,669 | 425,340 | 6,470 | 10,817,582 | 54 | 160,558 |
| 2016–2020 | 51,926 | 789 | 4,058,077 | 64,639 | 242,129 | 4,074 | 1,744,564 | 27,948 | 392,940 | 6,228 | 6,489,824 | 39 | 103,710 |

^a Total value of commercial catch in dollars, by species. Total value does not include home pack or ADF&G's test fishery.

^b Average value of commercial catch in dollars, by species. Average value does not include home pack or ADF&G's test fishery.

^c Includes the number of commercial permits that received income from the harvest. These figures do not include ADF&G's test fishery harvests.

Table 32.—Historical number of subsistence permits issued and returned and estimated subsistence salmon harvest, by species and year, 1980–2020.

| Year | Permits | | Estimated salmon harvest | | | | | Total |
|-------------------|---------|----------|--------------------------|--------|-------|------|-------|--------|
| | Issued | Returned | Chinook | Snake | 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 ^a | 95 | 82 | 104 | 6,785 | 1,174 | 137 | 707 | 8,907 |
| 2010 ^a | 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 ^a | 106 | 87 | 116 | 5,607 | 1,488 | 220 | 810 | 8,241 |
| 2013 ^a | 112 | 96 | 79 | 6,588 | 916 | 164 | 686 | 8,433 |

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Table 32.—Page 2 of 2.

| Year | Permits | | Estimated salmon harvest | | | | | |
|-------------------|---------|----------|--------------------------|---------|-------|------|------|--------|
| | Issued | Returned | Chinook | Sockeye | Coho | Chum | Pink | Total |
| 2014 | 113 | 101 | 148 | 7,855 | 1,401 | 207 | 339 | 9,950 |
| 2015 | 123 | 119 | 160 | 9,854 | 1,393 | 233 | 481 | 12,121 |
| 2016 | 118 | 93 | 97 | 8,150 | 552 | 118 | 251 | 9,168 |
| 2017 ^a | 97 | 73 | 73 | 6,346 | 1,470 | 106 | 510 | 8,504 |
| 2018 ^a | 84 | 69 | 68 | 4,538 | 966 | 157 | 399 | 6,128 |
| 2019 ^a | 84 | 73 | 60 | 4,514 | 1,094 | 158 | 586 | 6,412 |
| 2020 ^a | 67 | 63 | 64 | 4,188 | 1,000 | 123 | 436 | 5,811 |
| <i>Averages</i> | | | | | | | | |
| 2000–2019 | 112 | 90 | 126 | 7,945 | 1,475 | 208 | 855 | 10,609 |
| 2010–2019 | 106 | 88 | 104 | 7,218 | 1,256 | 194 | 601 | 9,372 |
| 2015–2019 | 101 | 85 | 92 | 6,680 | 1,095 | 154 | 445 | 8,467 |

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

^a From 1993–2008, 2011, 2014, 2015, and 2016 postseason household surveys were conducted to supplement harvest data collected through returned permits. Limited budgets prevented administering the surveys for 2009–2010, 2012–2013, and 2017–2020 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 postseason surveys was added to harvests to estimate the total subsistence harvest for 2009–2010, 2012–2013, and 2017–2020.

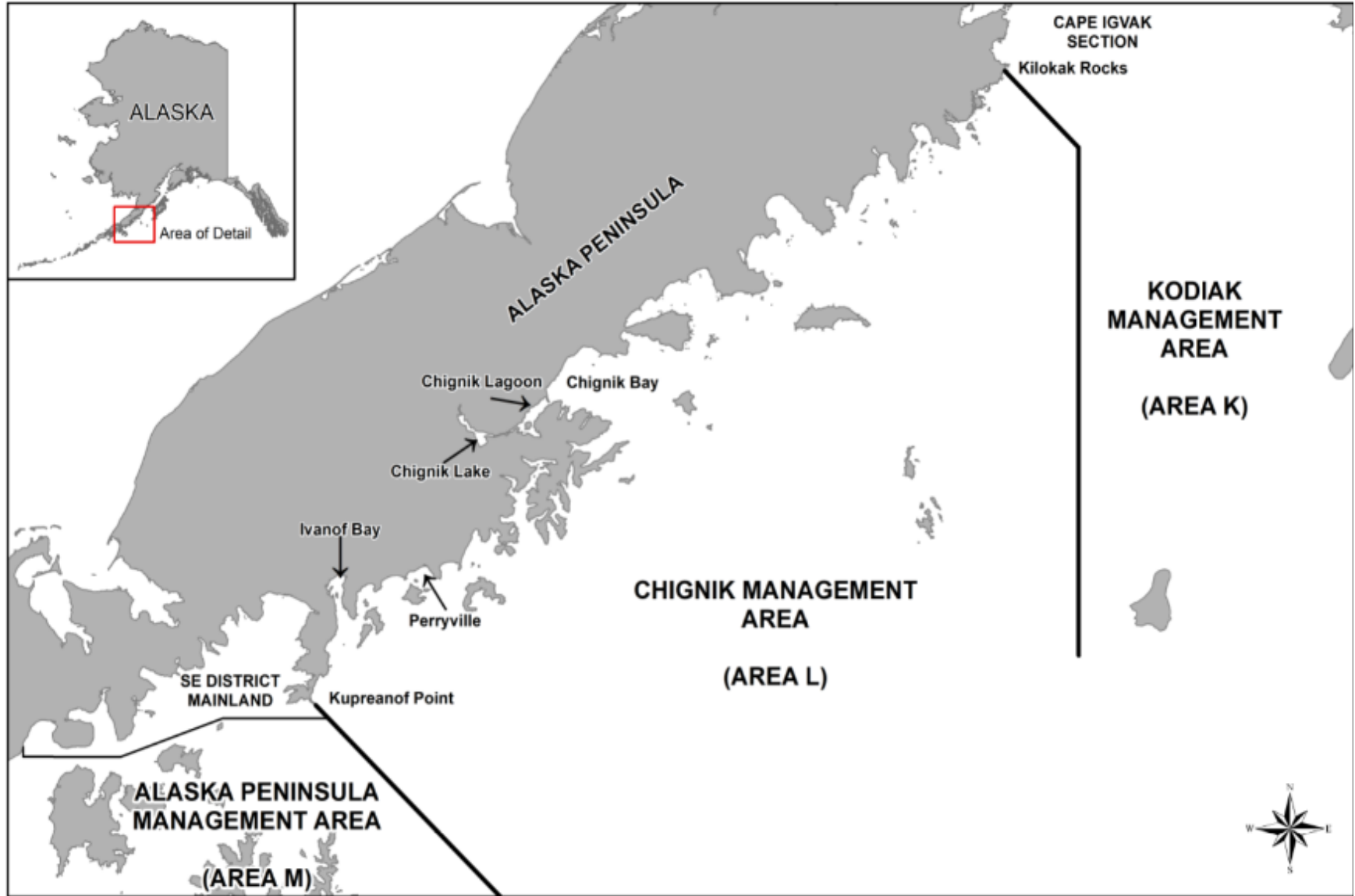


Figure 1.—Map of the Alaska Peninsula illustrating the relative locations of the Chignik, Kodiak, and Alaska Peninsula management areas.

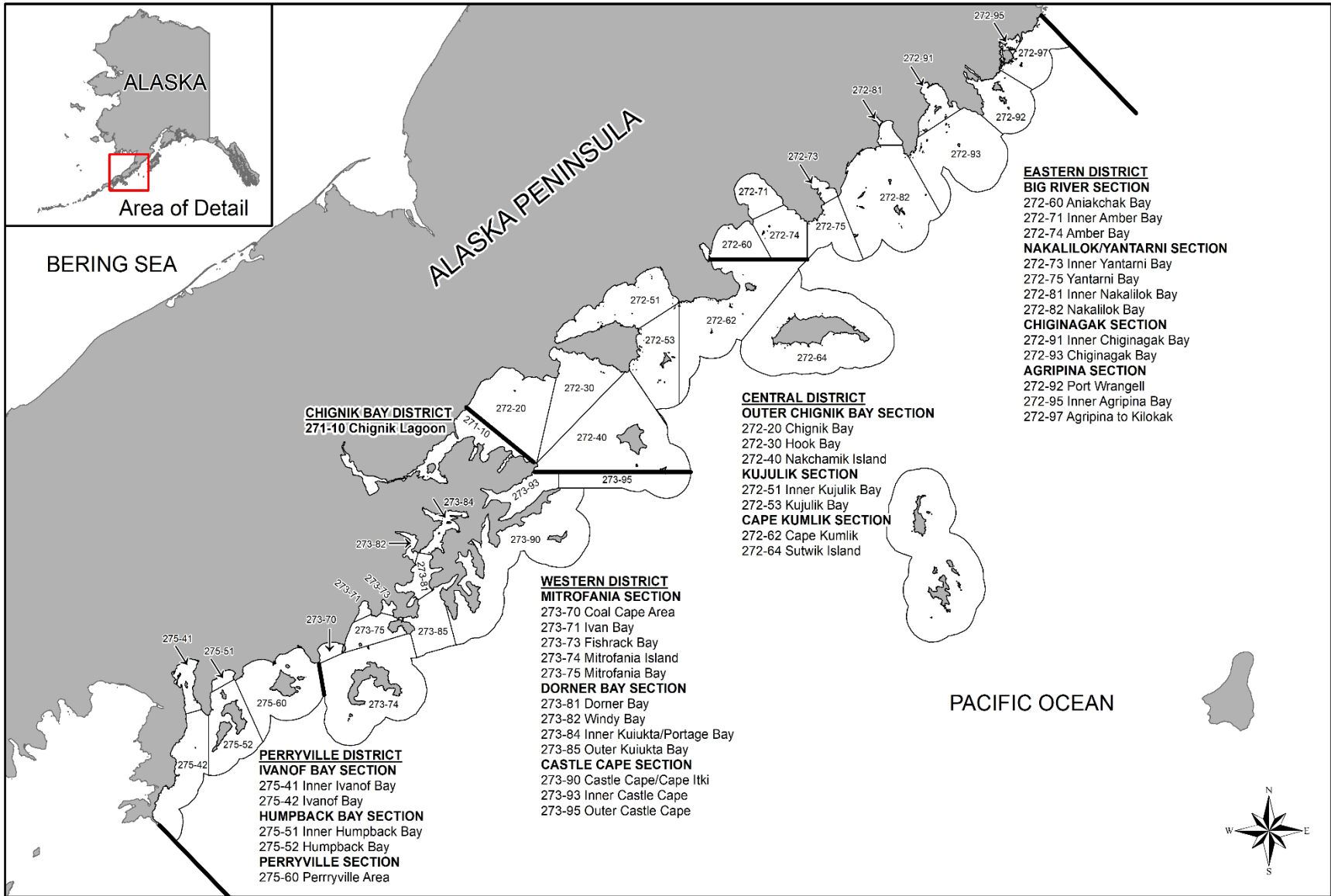


Figure 2.—Map of the Chignik Management Area illustrating district, section, and statistical area boundaries.

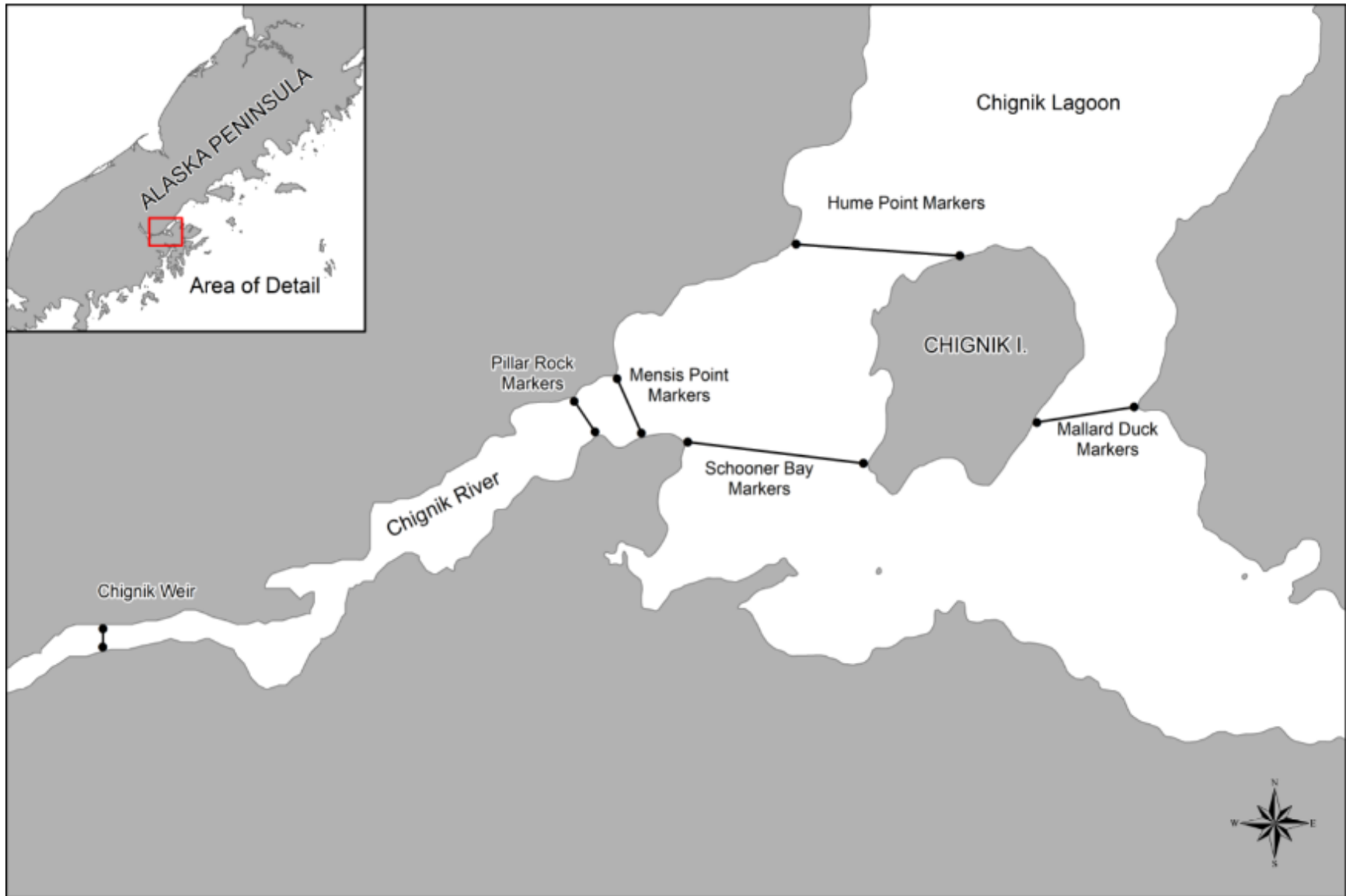


Figure 3.—Map of upper Chignik Lagoon showing the location of the Pillar Rock, Mensis Point, Humes Point, Mallard Duck, and Schooner Bay marker locations.

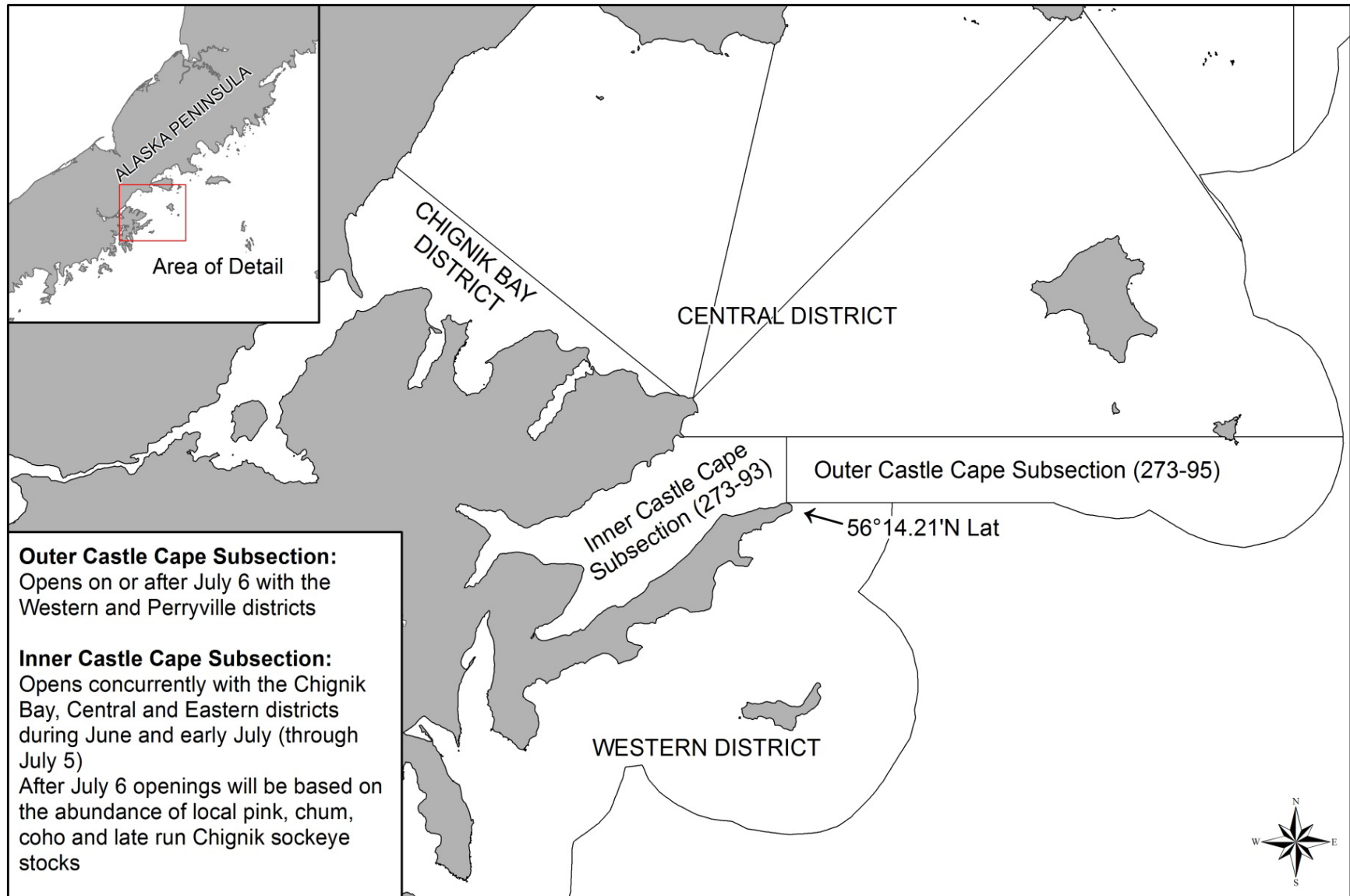


Figure 4.—Map depicting the Inner (273-93) and Outer (273-95) Castle Cape Subsections of the Western District.

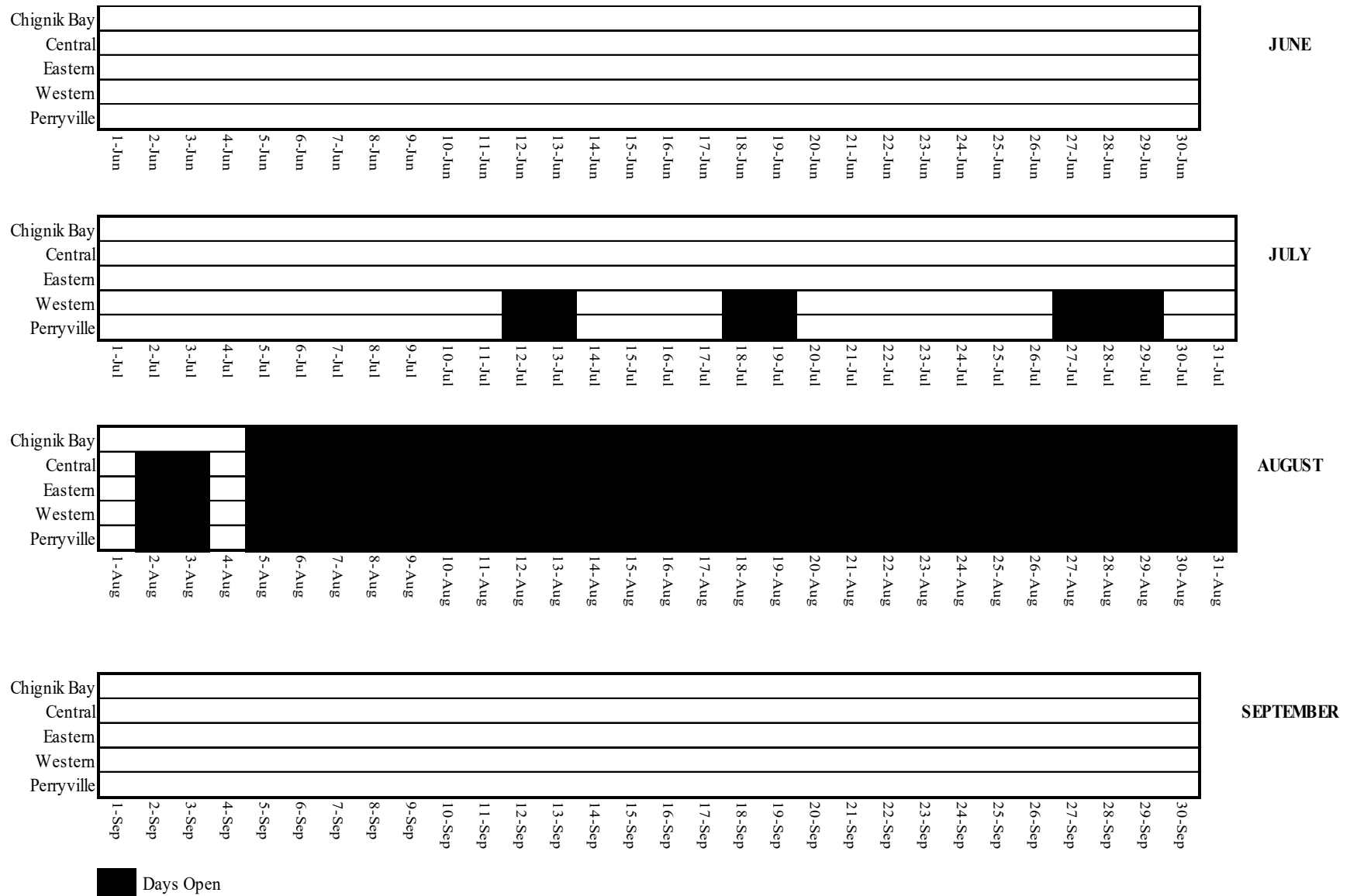


Figure 5.—Representation of days open to commercial salmon fishing, by district for June, July, August, and September 2021

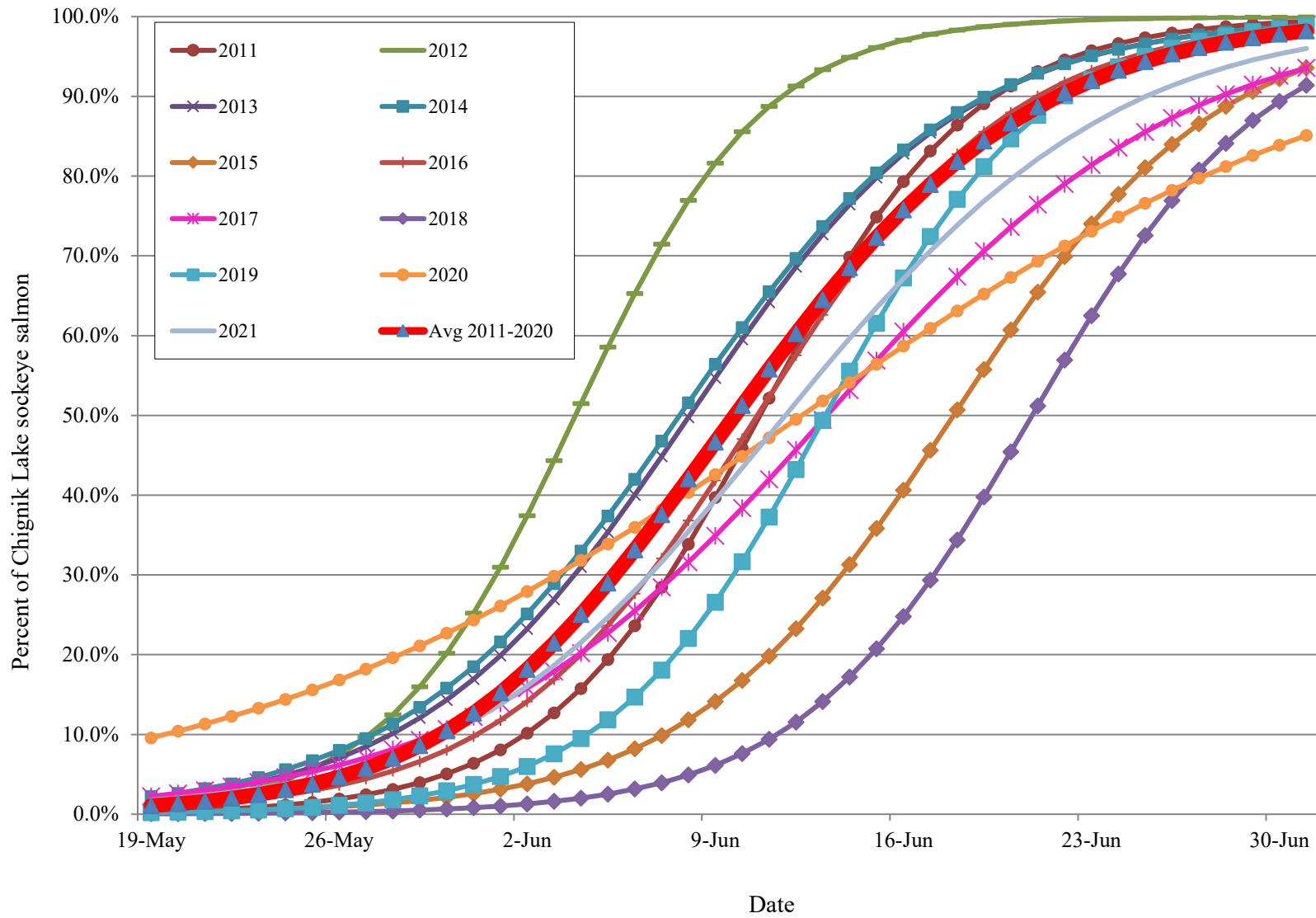


Figure 6.—Estimated proportional escapement of Chignik Lake (late run) sockeye salmon from inseason mixed-stock genetic analysis, 2011–2021.

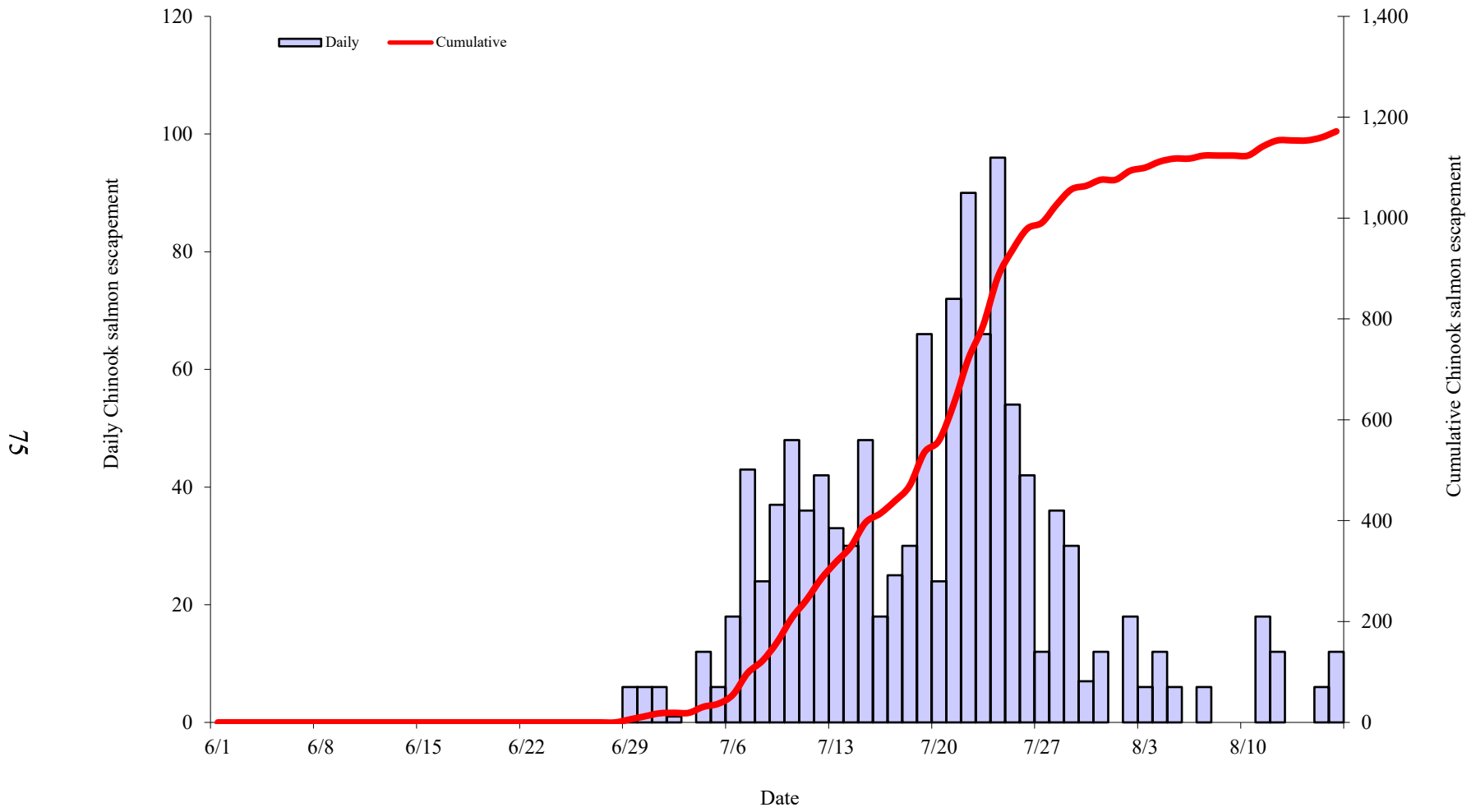


Figure 7.—Chignik River estimated daily and cumulative Chinook salmon escapement, 2021.

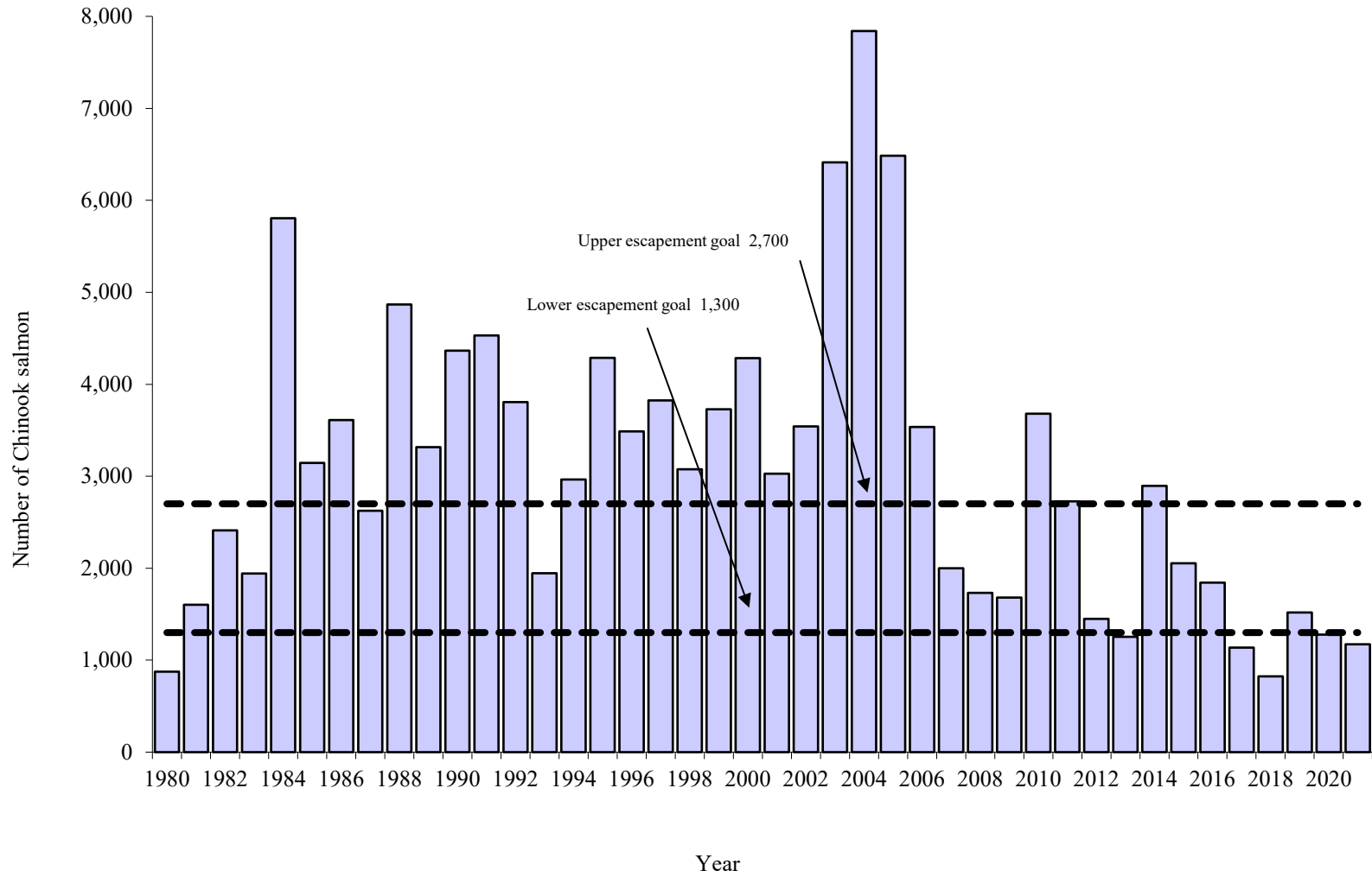


Figure 8.—Chignik River Chinook salmon escapement compared to the current escapement goal range, by year, 1980–2021.

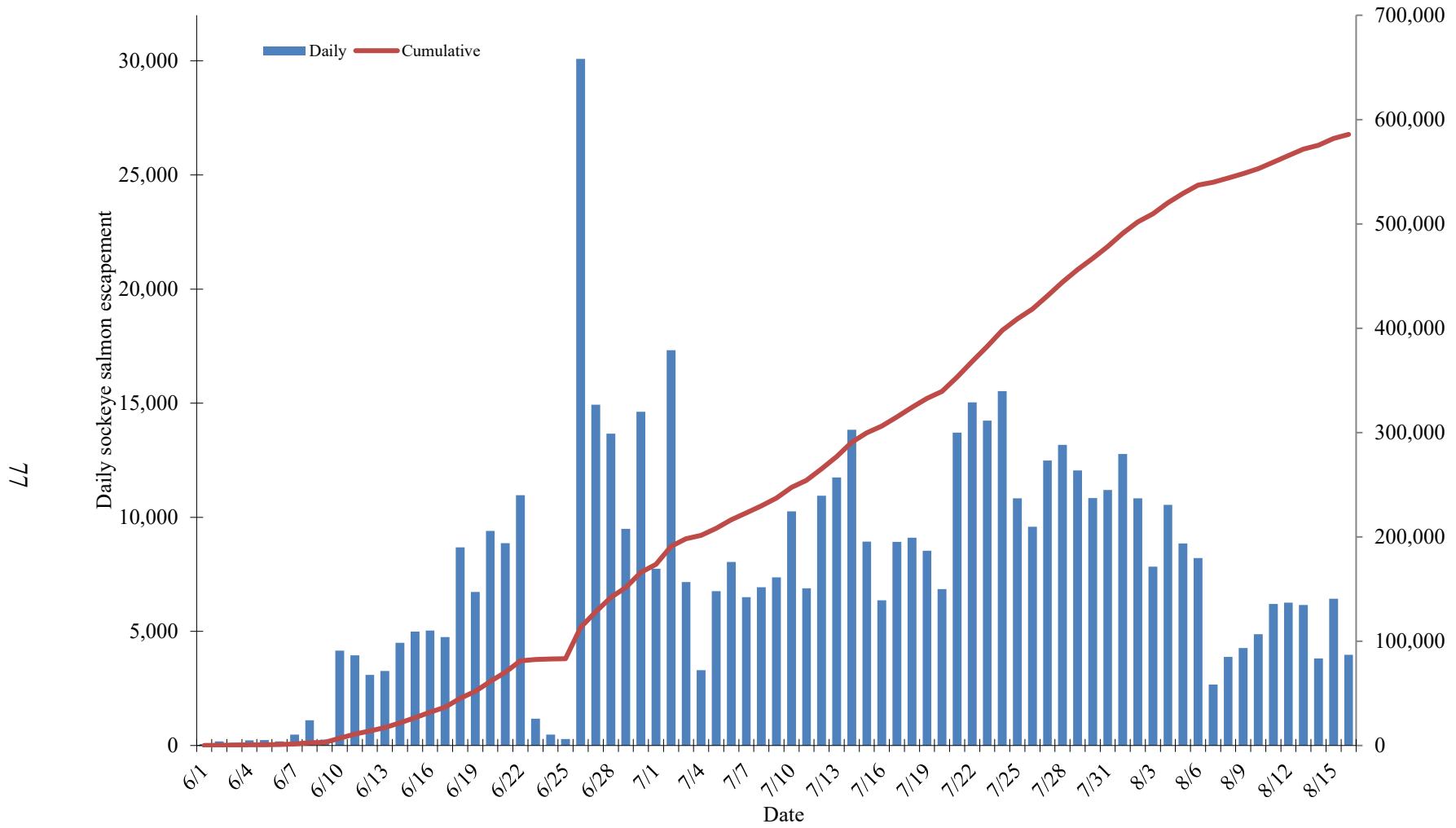


Figure 9.—Chignik River sockeye salmon daily and cumulative escapement (6/1–8/16), 2021.

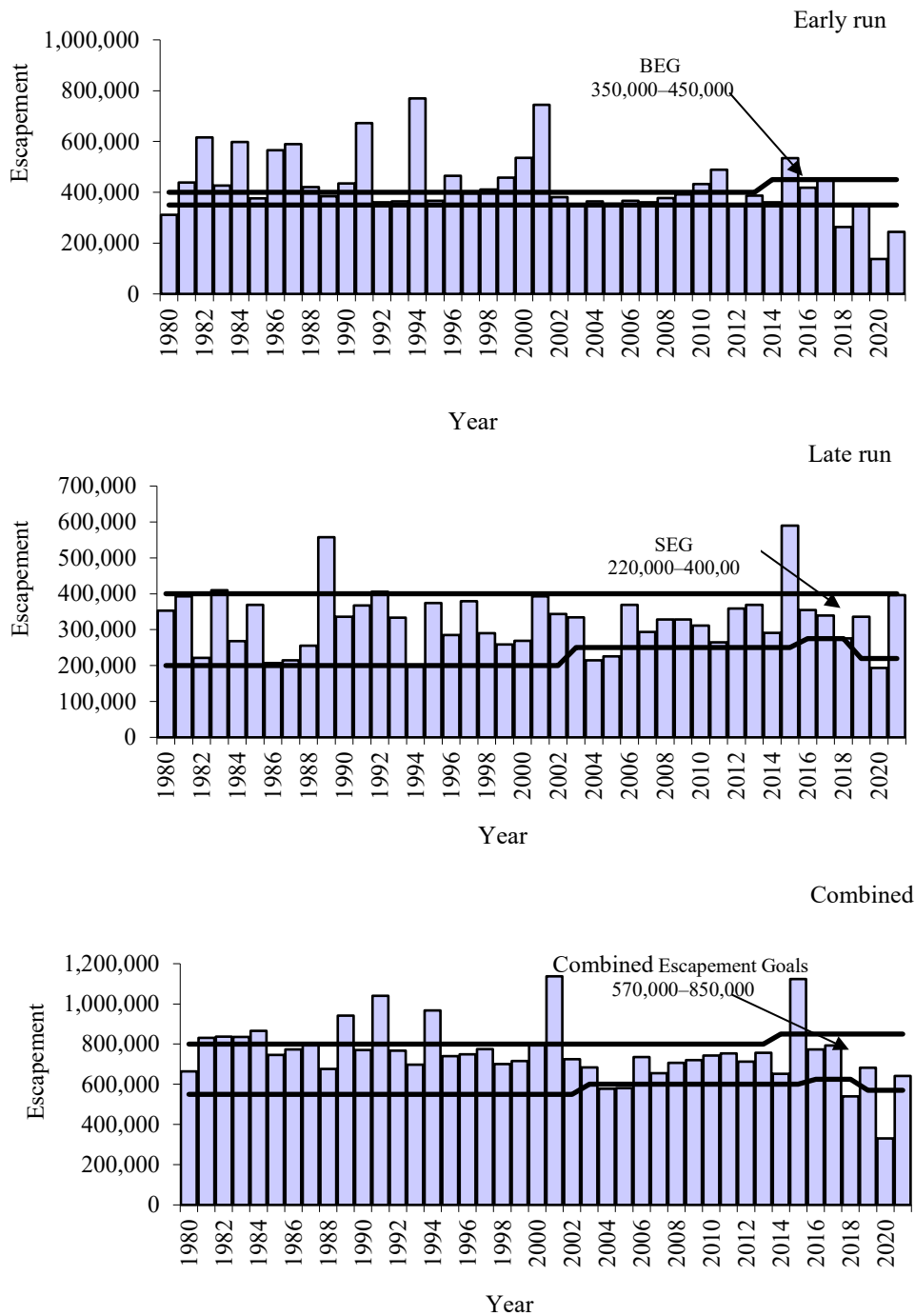


Figure 10.–Chignik River sockeye salmon early, late, and combined-run escapements 1980–2021 compared to established escapement goals (including a late run inriver run goal of 20,000 sockeye salmon).

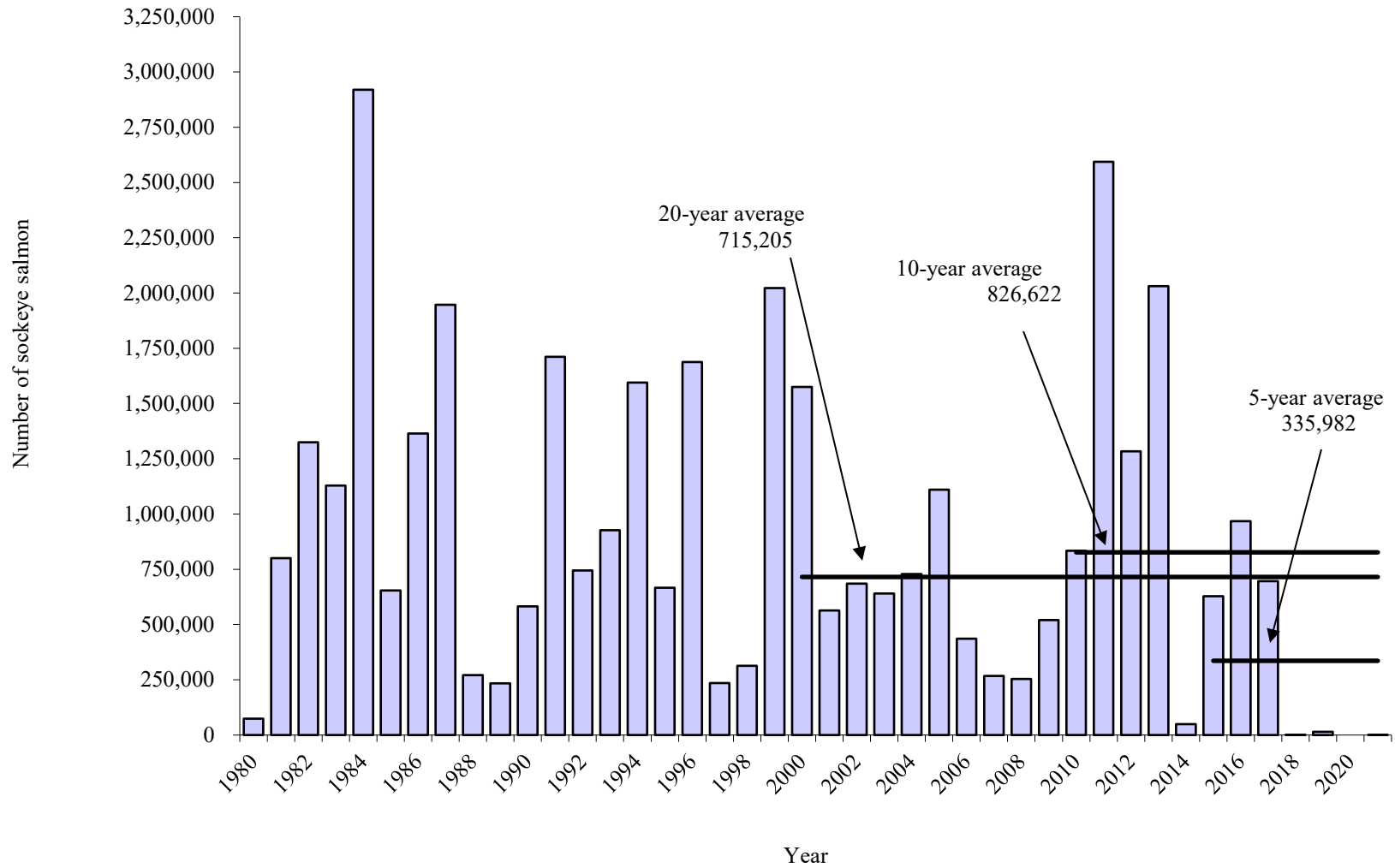


Figure 11.—Chignik-bound sockeye salmon early-run harvest, 1980–2021.

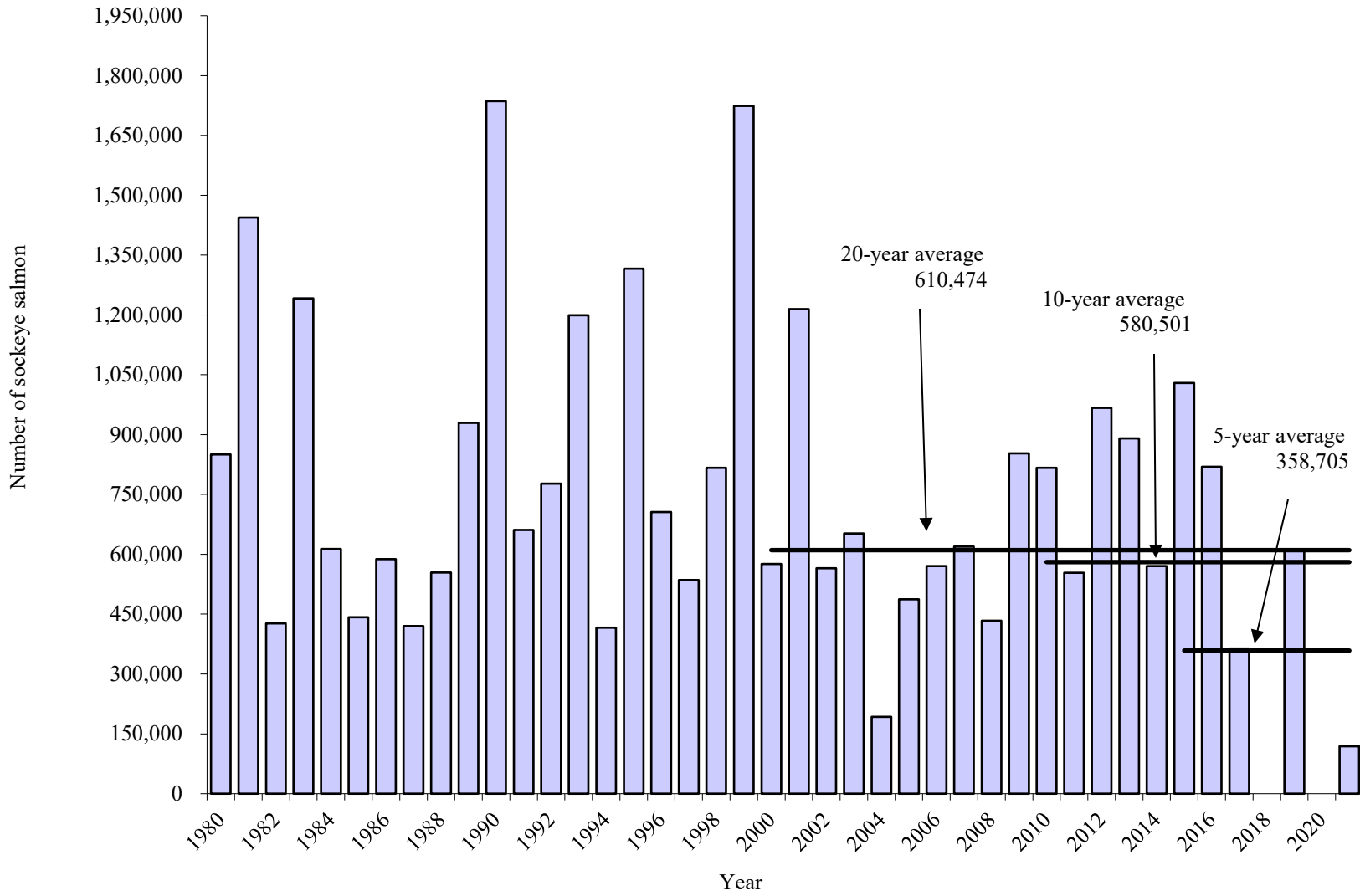


Figure 12.—Chignik-bound sockeye salmon late-run harvest, 1980–2021.

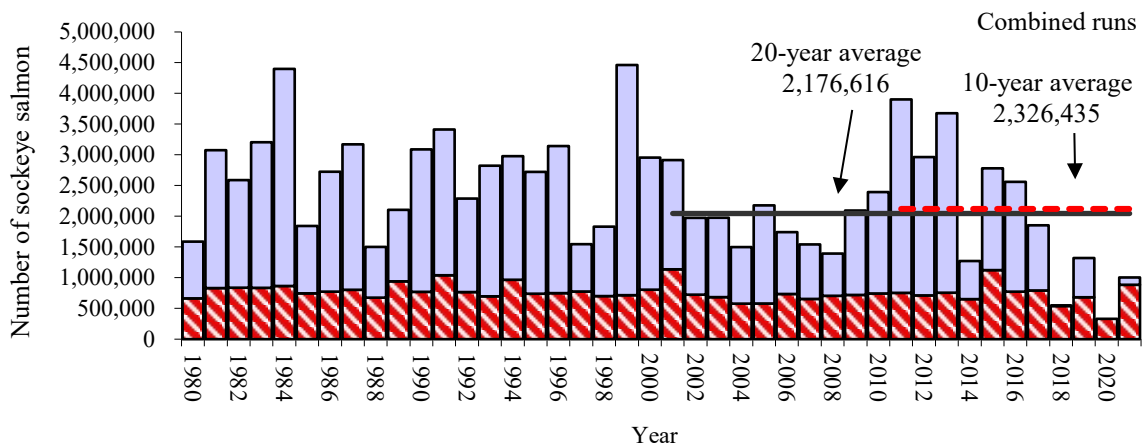
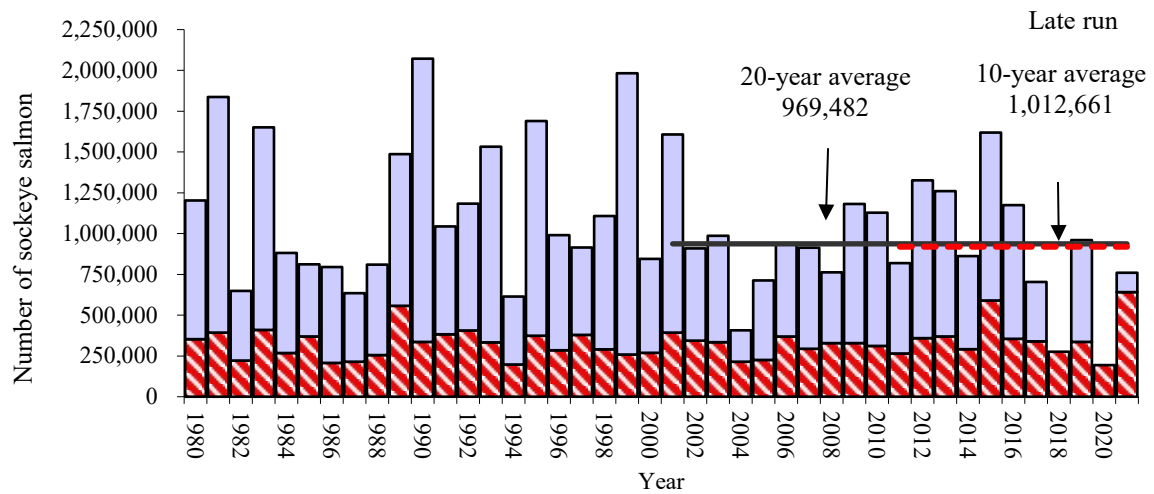
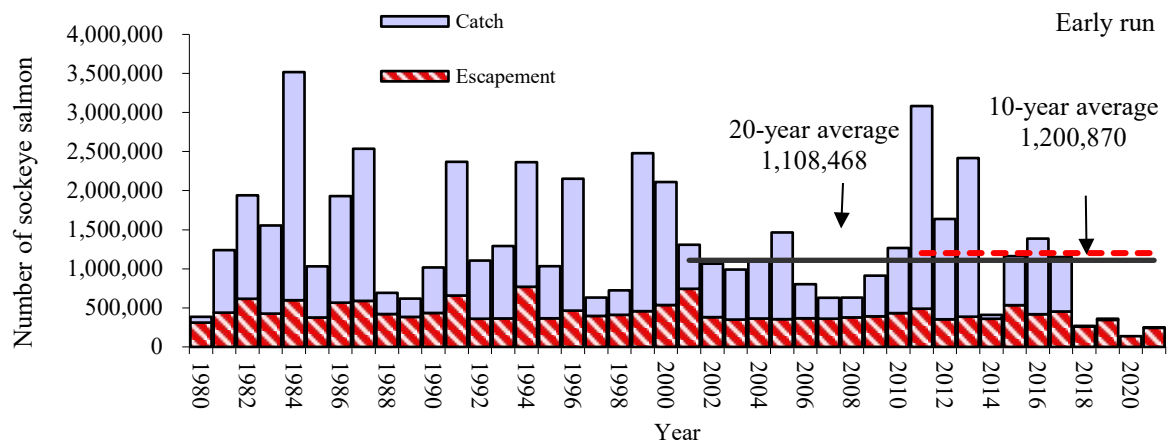


Figure 13.—Total sockeye salmon escapement and catch considered Chignik-bound including home pack, ADF&G’s test fishery harvest, and Cape Igvak and SEDM allocations, by year and run, 1980–2021.

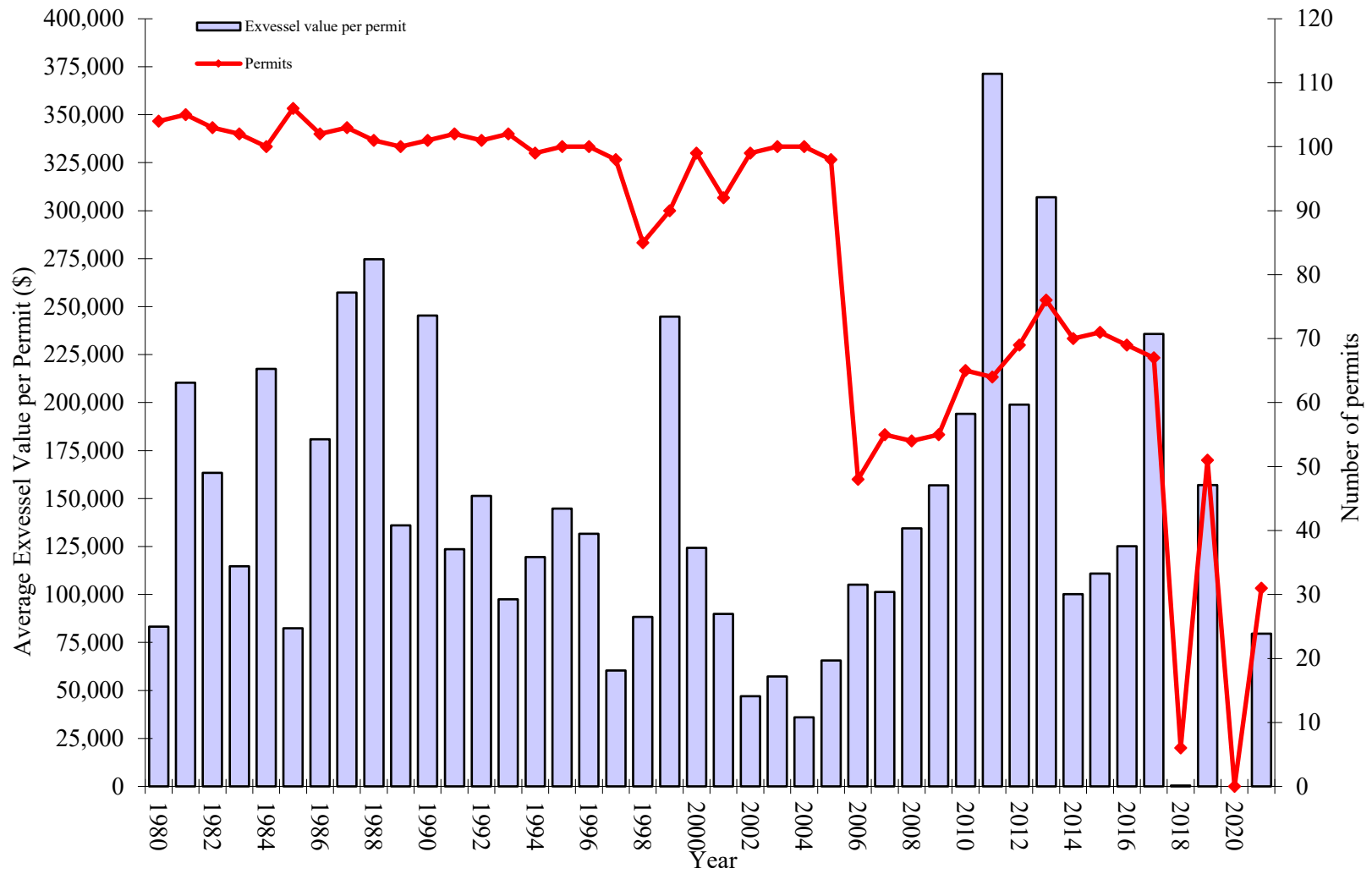


Figure 14.—Average exvessel value per permit and total permits fished by year, 1980–2021.

**APPENDIX A:
SUMMARY OF 2021 EMERGENCY ORDERS**

Appendix A1.–Summary of the 2021 Chignik Management Area (CMA) emergency orders (EO).

| EO Number | Issued | Effective | Action taken |
|-------------|----------------------|-----------------------|---|
| 4-FS-L-1-21 | 9:15 AM 7/9/2021 | 12:01 AM 7/12/2021 | Opens certain statistical areas within the CMA to target local pink and chum harvest for 48 hours from 12:01 AM Monday, July 12 until 11:59 PM Tuesday, July 13. The areas are as follows with the statistical code; Kujulik Bay (272-51), Ivan Bay (273-71), Dorner Bay (273-84, 273-82, 273-81), Fish Rack Bay (273-73), Humpback Bay (275-51), Ivanof Bay (275-41). |
| 4-FS-L-2-21 | 5:15 PM 7/15/2021 | 12:01 AM 7/18/2021 | Opens certain statistical areas within the CMA to target local pink and chum harvest for 48 hours from 12:01 AM Sunday, July 18 until 11:59 PM Monday, July 13. The areas are as follows with the statistical code; Kujulik Bay (272-51), Amber Bay (272-71), Nakalilok Bay (272-81), Yantarni Bay (272-73), Chiginagak Bay (272-91), and Agripina Bay (272-95), Ivan Bay (273-71), Dorner Bay (273-84, 273-82, 273-81), Fish Rack Bay (273-73), Humpback Bay (275-51), Ivanof Bay (275-41). |
| 4-FS-L-3-21 | 9:15 AM 7/25/2021 | 6:00 AM 7/27/2021 | Opens certain statistical areas within the CMA to target local pink and chum harvest for 48 hours from 6:00 AM Tuesday, July 27 until 6:00 AM Thursday, July 29. The areas are as follows with the statistical code; Kujulik Bay (272-51), Amber Bay (272-71), Nakalilok Bay (272-81), Yantarni Bay (272-73), Chiginagak Bay (272-91), and Agripina Bay (272-95), Ivan Bay (273-71), Dorner Bay (273-84, 273-82, 273-81), Fish Rack Bay (273-73), Humpback Bay (275-51), Ivanof Bay (275-41). |
| 4-FS-L-4-21 | 5:15 PM 7/30/2021 | 12:01 AM 8/2/2021 | Opens the Eastern, Western, and Perryville districts and Kujulik Bay of the Central District for 48 hours from 12:01 AM Monday, August 2 until 11:59 PM Tuesday, August 3. |
| 4-FS-L-5-21 | 9:15 AM 8/3/2021 | 6:00 AM 8/5/2021 | Opens the Chignik Bay, Central, Eastern, Western, and Perryville Districts for 60 hours from 6:00 AM Thursday, August 5 until 6:00 PM Saturday, August 7. Upper Chignik Lagoon markers to be located at Humes Point. |
| 4-FS-L-6-21 | 5:15 PM 8/3/2021 | 6:00 AM 8/5/2021 | Closes the Chignik Bay District beginning at 6:00 AM Thursday, August 5 to retention of Chinook salmon 28 inches or greater in length in the commercial salmon fishery until further notice. |
| 4-FS-L-7-21 | 12:00 PM 8/6/2021 | 6:00 PM 8/7/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 48 hours from 6:00 PM Saturday, August 7 until 6:00 PM Monday, August 9. |

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Appendix A1.–Page 2 of 2.

| EO Number | Issued | Effective | Action taken |
|--------------|----------------------|-----------------------|--|
| 4-FS-L-8-21 | 9:15 AM 8/8/2021 | 6:00 PM 8/9/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 48 hours from 6:00 PM Monday, August 9 until 6:00 PM Wednesday, August 11. |
| 4-FS-L-9-21 | 9:15 AM 8/10/2021 | 6:00 PM 8/11/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 24 hours from 6:00 PM Wednesday, August 11 until 6:00 PM Thursday, August 12. |
| 4-FS-L-10-21 | 9:15 AM 8/11/2021 | 6:00 PM 8/12/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 48 hours from 6:00 PM Thursday, August 12 until 6:00 PM Saturday day, August 14. |
| 4-FS-L-11-21 | 9:15 AM 8/12/2021 | 12:00 PM 8/12/2021 | Opens the Chignik Lagoon to the Mensis Point markers at 12:00 PM to commercial salmon fishing until further notice. |
| 4-FS-L-12-21 | 9:15 AM 8/13/2021 | 6:00 PM 8/14/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 72 hours from 6:00 PM Saturday, August 14 until 6:00 PM Tuesday, August 17. |
| 4-FS-L-13-21 | 9:15 AM 8/16/2021 | 6:00 PM 8/17/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts for 72 hours from 6:00 PM Tuesday, August 17 until 6:00 PM Friday, August 20. |
| 4-FS-L-14-21 | 9:15 AM 8/19/2021 | 6:00 PM 8/20/2021 | Extends the current commercial salmon fishing period in the Chignik Bay, Central, Eastern, Western and Perryville Districts from 6:00 PM Friday, August 20 until 11:59 PM Tuesday, August 31. |

**APPENDIX B:
2021 CHIGNIK RIVER 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: October 25, 2021

PHONE NO: 907-486-1848

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

SUBJECT: 2021 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 generally operates from the end of May to the beginning of September. Fish continue to escape the system through September, during which time an in-river run goal (IRRG: August goal of 10 thousand fish and September goal of 10 thousand fish) exists supplemental to the sustainable escapement goal of 200-400 thousand fish that extends through September 30 (Schaberg 2019; Wilburn 2019). Thus, a post-weir estimate of escapement is needed to account for fish that escape the Chignik River between when fish counts at the weir cease and the end date of the late-run goal of September 30.

Historically, a time series analysis generalizing the decay of the run (Chatfield 1985, Hyndman and Athanasopoulos 2014) has been employed to estimate the post-weir sockeye salmon escapement to the Chignik River through September 30. In 2021, the Chignik weir stopped enumerating escapement on August 16. Subsequently, the post-weir estimate encompasses the projected sockeye salmon escapement between August 17 and September 30.

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An exponential time series model, which accounted for autocorrelation and exponential trends in the data, modeled the run decay (Hyndman and Athanasopoulos 2014). The model employed late-run data from August 12 to August 16 to represent the decay of the run. Because fishing occurred after the removal of the Chignik weir, catch was subtracted from the daily time series run estimate to calculate escapement during the post-weir estimate time period.

After removal of the Chignik weir, a total of 55,173 late-run fish was estimated to have escaped upriver (Figure 1) between August 17 and September 30. A total of 20,583 fish were estimated to have escaped the system from September 1 to 30. The post-weir estimate increased the late-run escapement total to 396,558 fish and the total Chignik watershed escapement to 640,942 fish.

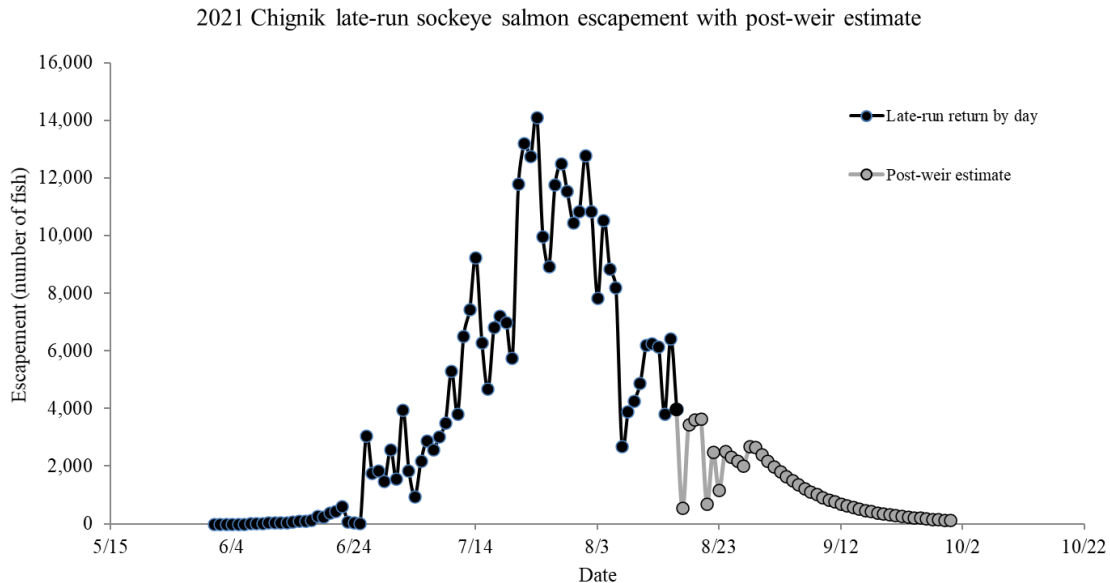


Figure 1. Estimated Chignik sockeye salmon late-run escapement by day for 2021.

Chatfield, C. 1985. *The Analysis of Time Series: An Introduction*, 3rd ed. Chatman and Hall, London.

Hyndman, R.J., and G. Athanasopoulos. 2014. *Forecasting: principles and practice*. OTexts, Melbourne, Australia. <https://otexts.com/fpp2/>.

Schaberg, K. L., M. B. Foster, and A. St. Saviour. 2019. Review of salmon escapement goals in the Chignik Management Area, 2018. Alaska Department of Fish and Game, Fishery Manuscript Series No. 19-02, Anchorage.

Wilburn, D. M. 2019. Chignik Management Area commercial salmon fishery harvest strategy, 2019. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K19-09, Kodiak.

cc: Johnson, Stratton, Wadle, Sagalkin

**APPENDIX C:
CHIGNIK AREA ESTIMATED PEAK ESCAPEMENT
COUNTS FOR PINK, CHUM, AND SOCKEYE SALMON,
2021**

Appendix C1.-Chignik Area estimated peak escapement counts for pink and chum salmon, 2021.

| Central District | | Number of salmon | |
|----------------------------------|---------------------------------|------------------|--------|
| Stream # | Stream name | Pink | Chum |
| <u>Outer Chignik Bay Section</u> | | | |
| 272-302 | Hook Creek | 43,000 | 23,000 |
| 272202B | Neketa Creek | 0 | 0 |
| 272-204 | Thompson Creek | 25,000 | 15,000 |
| Total Outer Chignik Bay Section | | 68,000 | 38,000 |
| <u>Kujulik Bay Section</u> | | | |
| 272-505 | Bear Creek | 0 | 6,000 |
| 272-504 | Kujulik Bay | 0 | 0 |
| 272-501 | Kumliun Creek ^a | 194,000 | 17,000 |
| 272-516 | New Creek | 4,000 | 8,000 |
| 272-514 | North Fork River ^{a,b} | 30,000 | 15,000 |
| 272-509 | Rudy's Creek | 30,000 | 12,000 |
| Total Kujulik Bay Section | | 258,000 | 58,000 |
| Total Central District | | 326,000 | 96,000 |
| | | | |
| Chignik Bay District | | Number of salmon | |
| Stream # | Stream name | Pink | Chum |
| Inner Chignik Bay Section | | | |
| 271-101 | Lake Bay Creek | 2,000 | 5,000 |
| 271-103 | Metrofania Creek | 0 | 0 |
| 271-104 | Alfred Creek | 7,000 | 7,000 |
| 271-106 | Through Creek | 0 | 0 |
| Total Inner Chignik Bay Section | | 9,000 | 12,000 |
| Total Chignik Bay District | | 9,000 | 12,000 |

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| Perryville District | | Number of salmon | |
|----------------------------|-----------------------------|------------------|---------|
| | | Pink | Chum |
| Stream # | Stream name | | |
| Ivanof Bay Section | | | |
| 275-401 | Kupreanof Creek | 18,000 | 9,000 |
| 275-402 | Smokey Hollow | 3,000 | 18,000 |
| 275-404 | Wasco's Creek | 0 | 0 |
| 275-406 | Ivanof River ^{a,b} | 30,000 | 31,000 |
| 275-408 | Wolverine Creek | 7,000 | 4,000 |
| Total Ivanof Section | | 58,000 | 62,000 |
| Humpback Bay Section | | | |
| 275-502 | Humpback Creek ^a | 36000 | 36000 |
| 275-504 | Humpback Bay Creek | 0 | 0 |
| 275-505 | Alexander Point | 6000 | 4000 |
| Total Humpback Bay Section | | 42,000 | 40,000 |
| Perryville Section | | | |
| 275-600 | Kametolook River | 0 | 0 |
| 275-601 | Kametolook (North) | 0 | 0 |
| Total Humpback Bay Section | | 0 | 0 |
| Total Perryville District | | 100,000 | 102,000 |

-continued-

| Eastern District | | Number of salmon | |
|---------------------------------------|---------------------------------|------------------|---------|
| | | Pink | Chum |
| Stream # | Stream name | | |
| Big River Section | | | |
| 272-604 | Black Creek | 10,000 | 1,000 |
| 272-605 | Aniakchak River ^{a,b} | 30000 | 19000 |
| 272-606 | Fred Gungus | 26000 | 12000 |
| 272-701 | West Creek | 5,000 | 3,000 |
| 272-702 | Main Creek ^a | 56000 | 11000 |
| 272-703 | Northeast Creek | 16000 | 28000 |
| Total Big River Section | | 143,000 | 74,000 |
| Nakalilok/Yantarni Bay Section | | | |
| 272-721 | Yantarni Creek | 29,000 | 9,000 |
| 272-801 | Ocean Beach | 15,000 | 12,000 |
| 272-802 | Ocean Beach North | 23,000 | 10,000 |
| 272-804 | Nakalilok River ^b | 13,000 | 9,000 |
| 272-805 | Nakalilok Bay North | 9,000 | 1,000 |
| Total Nakalilok/Yantarni Bay Section | | 89,000 | 41,000 |
| Chiginagak Section | | | |
| 272-900 | Cape Kuyuyukak (S) | 2,000 | 0 |
| 272-902 | Cape Kuyuyukak (N) | 20,000 | 5,000 |
| 272-903a | Chiginagak River ^b | 34,000 | 30,000 |
| 272-904 | Chiginagak Bay(W) | 32,000 | 4,000 |
| 272-905 | Chiginagak Bay (E) ^a | 1,000 | 18,000 |
| 272-906 | Chiginagak Bay | 0 | 0 |
| Total Chiginagak Section | | 89,000 | 57,000 |
| Agripina Section | | | |
| 272-921 | Port Wrangle Bay | 0 | 0 |
| 272-961a | Agripina Lake | 4,050 | 0 |
| 272-961b | Agripina Slough | 54,000 | 17,000 |
| 272-963 | Kilokak Creek | 24,000 | 1,000 |
| Total Agripina Section | | 82,050 | 18,000 |
| Eastern District total | | 403,050 | 190,000 |

-continued-

| Western District | | Number of salmon | |
|---------------------------------|----------------------------|------------------|---------|
| | | Pink | Chum |
| Stream # | Stream name | | |
| Mitrofanina Section | | | |
| 273-702 | Red Bluff Creek | 20000 | 7000 |
| 273-722 | Ivan River ^a | 85,000 | 35,000 |
| 273-723 | Fishrack Bay | 8000 | 4000 |
| Total Mitrofanina Section | | 113,000 | 46,000 |
| Dorner Bay Section | | | |
| 273-802 | Foot Creek | 17,000 | 7,000 |
| 273-842 | Portage Creek ^b | 0 | 18,000 |
| Total Dorner Bay Section | | 17,000 | 25,000 |
| Inner Castle Cape Section | | | |
| 273-941 | Castle Creek | 0 | 0 |
| Total Inner Castle Cape Section | | 0 | 0 |
| Western District total | | 130,000 | 71,000 |
| Total Chignik Area | | 968,050 | 471,000 |

^a Pink salmon index river.

^b Chum salmon index river.

Appendix C2.–Chignik watershed sockeye salmon spawning ground surveys.

| Chignik Watershed | | Number of Salmon |
|--------------------------------|--------------------|------------------|
| Stream # | Stream name | Sockeye |
| Black Lake Tributaries | | |
| 271-091 | Fan Creek | 4,000 |
| 271-090 | Milk Creek | ND |
| 271-083 | Boulevard Creek | 8,000 |
| 271-085 | Alec River | 42,000 |
| 271-088 | Conglomerate Creek | 3,200 |
| 271-087 | Broad Creek | 3,000 |
| Total Black River Tributaries | | 60,200 |
| Chignik Lake Tributaries | | |
| 271-095 | Bearskin Creek | ND |
| 271-094 | West Fork | 1,900 |
| 271-092 | Chiaktuak Creek | 20,000 |
| 271-097 | Clark River | 19,000 |
| 271-099 | Home Creek | 7,000 |
| 271-096 | Hatchery Beach | 34,000 |
| Total Chignik Lake Tributaries | | 81,900 |
| Chignik Watershed total | | 142,100 |