

**Fishery Management Report No. 09-59**

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**Chignik Management Area Salmon and Herring  
Annual Management Report, 2008**

by

**James V. Jackson**

and

**Todd J. Anderson**

December 2009

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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

<b>Weights and measures (metric)</b>		<b>General</b>		<b>Measures (fisheries)</b>	
centimeter	cm	Alaska Administrative		fork length	FL
deciliter	dL	Code	AAC	mideye to fork	MEF
gram	g	all commonly accepted		mideye to tail fork	METF
hectare	ha	abbreviations	e.g., Mr., Mrs., AM, PM, etc.	standard length	SL
kilogram	kg			total length	TL
kilometer	km	all commonly accepted			
liter	L	professional titles	e.g., Dr., Ph.D., R.N., etc.	<b>Mathematics, statistics</b>	
meter	m			<i>all standard mathematical</i>	
milliliter	mL	at	@	<i>signs, symbols and</i>	
millimeter	mm	compass directions:		<i>abbreviations</i>	
		east	E	alternate hypothesis	H <sub>A</sub>
<b>Weights and measures (English)</b>		north	N	base of natural logarithm	<i>e</i>
cubic feet per second	ft <sup>3</sup> /s	south	S	catch per unit effort	CPUE
foot	ft	west	W	coefficient of variation	CV
gallon	gal	copyright	©	common test statistics	(F, t, $\chi^2$ , etc.)
inch	in	corporate suffixes:		confidence interval	CI
mile	mi	Company	Co.	correlation coefficient	
nautical mile	nmi	Corporation	Corp.	(multiple)	R
ounce	oz	Incorporated	Inc.	correlation coefficient	
pound	lb	Limited	Ltd.	(simple)	r
quart	qt	District of Columbia	D.C.	covariance	cov
yard	yd	et alii (and others)	et al.	degree (angular)	°
		et cetera (and so forth)	etc.	degrees of freedom	df
<b>Time and temperature</b>		exempli gratia		expected value	<i>E</i>
day	d	(for example)	e.g.	greater than	>
degrees Celsius	°C	Federal Information		greater than or equal to	≥
degrees Fahrenheit	°F	Code	FIC	harvest per unit effort	HPUE
degrees kelvin	K	id est (that is)	i.e.	less than	<
hour	h	latitude or longitude	lat. or long.	less than or equal to	≤
minute	min	monetary symbols		logarithm (natural)	ln
second	s	(U.S.)	\$, ¢	logarithm (base 10)	log
		months (tables and		logarithm (specify base)	log <sub>2</sub> , etc.
<b>Physics and chemistry</b>		figures): first three		minute (angular)	'
all atomic symbols		letters	Jan, ..., Dec	not significant	NS
alternating current	AC	registered trademark	®	null hypothesis	H <sub>0</sub>
ampere	A	trademark	™	percent	%
calorie	cal	United States		probability	P
direct current	DC	(adjective)	U.S.	probability of a type I error	
hertz	Hz	United States of		(rejection of the null	
horsepower	hp	America (noun)	USA	hypothesis when true)	$\alpha$
hydrogen ion activity	pH	U.S.C.	United States	probability of a type II error	
(negative log of)			Code	(acceptance of the null	
parts per million	ppm	U.S. state		hypothesis when false)	$\beta$
parts per thousand	ppt, ‰		use two-letter	second (angular)	"
			abbreviations	standard deviation	SD
volts	V		(e.g., AK, WA)	standard error	SE
watts	W			variance	
				population	Var
				sample	var

***FISHERY MANAGEMENT REPORT NO. 09-59***

**CHIGNIK MANAGEMENT AREA SALMON AND HERRING  
ANNUAL MANAGEMENT REPORT, 2008**

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## ABSTRACT

This report summarizes the 2008 commercial Pacific herring *Clupea pallasii* and Pacific salmon *Oncorhynchus spp.* fisheries within the Chignik Management Area (CMA; Area L). The CMA encompasses all state waters and inland drainages of the northwest Gulf of Alaska between Kilokak Rocks and Kupreanof Point. There was no commercial herring fishery in the CMA during 2008. All five species of 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 2008, the Chinook salmon escapement of 1,730 fish to the Chignik River was below recent averages but was within the escapement goal range of 1,300 to 2,700 fish. The 2008 Chignik River early-run sockeye salmon escapement of 377,579 fish was within the early-run escapement goal range of 350,000 to 400,000 fish. The late-run sockeye salmon escapement of 328,479 fish was within the late-run escapement goal range of 250,000 to 400,000 fish. The early run was above the recent 5-, but below the 10- and 20-year escapement averages. The late run was above the recent 5-, 10-, and 20-year escapement averages. A total of 54 CMA permit holders made deliveries in 2008. The majority of the fishing effort in the 2008 season occurred in the Chignik Bay District. The 2008 total (including department test fishery harvests and fish retained as home pack) Chignik-bound sockeye salmon harvest of 687,270 fish was less than recent 5-, 10-, and 20-year average harvests.

Key words: Chignik Management Area (CMA), Chignik River, *Oncorhynchus*, *Clupea pallasii*, salmon, herring, Alaska Board of Fisheries (BOF), 2008 commercial fisheries management, FMP, harvest statistics, escapement statistics, AMR.

## INTRODUCTION

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

Five species of Pacific salmon are commercially harvested in the CMA: Chinook *O. tshawytscha*, sockeye *O. nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum *O. keta* salmon. Of these, sockeye salmon are the primary species targeted and the most important commercial and subsistence salmon species in the CMA. The ADF&G manages all CMA commercial salmon resources by emergency order (EO) 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 five villages: Chignik Bay (Anchorage Bay), Chignik Lagoon, Chignik Lake, Perryville, and Ivanof Bay (Figure 1).

This report provides a summary of commercial herring and salmon management plans, fishing activity, harvests, and escapements in the CMA. This report also provides a chronology of significant regulatory changes that influenced the 2008 commercial salmon season. Most tables in this report have been obtained from the Westward Region electronic fish ticket and escapement databases which contain historical data from 1970 to the present. The salmon harvest estimates reported in this document were summarized from the fish ticket database on January 15, 2009. Data published in this report supersede any data previously published.

# COMMERCIAL HERRING

## HERRING MANAGEMENT OVERVIEW

Herring may be harvested in the CMA from April 15 through June 30 (sac roe season) and from August 15 through February 28 (food and bait season), however specific commercial herring fishing periods and areas are allowed only by emergency order (5 AAC 27.560). Herring may be taken only by purse seines not more than 1,000 meshes in depth or more than 100 fathoms in length (5 AAC 27.575).

There are several distinct locations within the CMA where herring are managed as separate stocks (Table 1). Each individual location is managed on a maximum exploitation rate of 20%, given that a threshold biomass is available for harvest. Threshold biomass levels are determined prior to the fishing season after aerial survey estimates are conducted and potential effort levels are determined.

### Historical Data

Commercial herring harvests were not recorded in the CMA until 1980 (Nicholson et al. 1980). In years when fisheries occurred, herring harvests ranged from a minimum of 6 tons in 1996 to a maximum of 587 tons in 1980 (Table 2). Due to poor market conditions, there has been limited interest in CMA herring fisheries in recent years. The last herring biomass survey and commercial fishery occurred in 1996.

### 2008 Herring Fishery

There was no 2008 herring fishery in the CMA; no guideline harvest levels were set due to the lack of industry interest.

# COMMERCIAL SALMON

## OVERVIEW OF MANAGEMENT PLANS

Several management plans have been used to manage the Chignik commercial salmon fishery in the last decade. The 2008 Chignik commercial salmon fishery was managed based on the Chignik Salmon Management Plan (5 AAC 15.357). Sockeye salmon bound for the Chignik River watershed were also allocated under two additional management plans: the Cape Igvak Salmon Management Plan (5 AAC 18.360) in the Kodiak Management Area (Area K), and the Southeastern District Mainland (SEDM) Salmon Management Plan (5 AAC 09.360) in the Alaska Peninsula Management Area (Area M).

### Cape Igvak Salmon Management Plan

From June 1 through July 25, a certain proportion of sockeye salmon harvested in the Cape Igvak Section by Kodiak Area fishermen (Area K) were allocatively considered Chignik bound (5 AAC 18.360). The Cape Igvak Section is the westernmost component of Area K, located directly to the east of the CMA (Figure 1). If the harvestable surplus of sockeye salmon in the CMA was above or expected to be above certain thresholds (5 AAC 18.360 (a-c)), then 15 percent of the total Chignik sockeye salmon harvest (including sockeye salmon caught at Cape Igvak and within certain portions of SEDM) was allocated to Area K fishermen. Based on this management plan, 90 percent of the sockeye salmon harvested within the Cape Igvak Section

were considered to be Chignik-bound. After July 25, there were no allocative ties between the CMA and Area K.

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

From June 1 through July 25, a certain proportion of sockeye salmon harvested in the Southeastern District Mainland (SEDM) by Alaska Peninsula fishermen (Area M) were allocatively considered Chignik bound (5 AAC 09.360). The SEDM is composed of a group of sections at the eastern end of Area M, located directly southwest of the CMA (Figure 1). If the harvestable surplus of sockeye salmon in the CMA was above or expected to be above certain thresholds (5 AAC 09.360 (a-g)), then 7.6 percent of the total estimated CMA sockeye salmon harvest was allocated to SEDM fisherman. Based on this management plan, 80 percent of the sockeye salmon harvested within certain SEDM sections during specific times were considered to be Chignik-bound. After July 25, there were no allocative ties between the CMA and Area M.

### **Chignik Salmon Management Plan**

The Chignik Salmon Management Plan (5 AAC 15.357) was originally adopted in 1999. The goal of this plan was to allow traditional salmon fisheries in the CMA while achieving the established escapement goals for both early-run (Black Lake), and late-run (Chignik Lake) sockeye salmon. Purse seines and hand purse seines were the only legal commercial salmon fishing gear within the CMA. Legal seine gear ranged 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 was organized into districts or groups of districts: the Chignik Bay and Central districts, the Eastern District, and the Western and Perryville districts (Figure 2).

The first commercial fishing period in the Chignik Bay, Central, and Eastern districts and the Inner Castle Cape Subsection of the Western District may occur when approximately 20,000 sockeye salmon have passed the Chignik River weir. Two concurrent fishing periods of up to 48 hours in length, separated by at least 48 hours, may occur in the Western District during June and early July. All subsequent Western District fishing periods as well as the first commercial fishing period in the Perryville District may occur on July 6, as long as Chignik River sockeye salmon escapement objectives are expected to be met. From mid July until the end of the fishing season, the department shall manage the CMA based on its evaluation of the local pink, chum, and coho salmon runs, as well as the Chignik watershed late-run sockeye salmon escapement.

### **January 2008 Board of Fisheries Meeting**

Several notable regulatory changes resulted from the Chignik Area Board of Fisheries (BOF) meeting held during January 2008. The following is a brief summary of regulatory changes that were adopted at that meeting.

- The Castle Bay Section (273-94) in the Western District was divided into two separate sections; Inner Castle Cape Subsection (273-93) and the Outer Castle Cape Subsection (273-95; Figure 3). Beginning in 2008, the Inner Castle Cape Section (273-93) opens concurrently with the Chignik Bay, Central, and Eastern districts from the beginning of the fishing season through July 5. The Outer Castle Cape Section (273-95) will open with the remainder of the Western and Perryville districts on or after July 6.

- The BOF adopted a regulation that allows the Western District to open for two fishing periods up to 48 hours in length from the beginning of the fishing season through July 5. Both fishing periods shall open concurrently with the Chignik Bay and Central districts and must be separated by a minimum of 48 hours (5 AAC 15.357 (e)). This regulation will sunset on January 1, 2011.
- The 60,000 coho salmon harvest cap in the Western and Perryville districts during July was repealed and is no longer in effect.
- Provide late season management flexibility, fishing periods in the Western and Perryville districts after August 20 will be based on pink and chum salmon abundances in addition to local stocks of coho salmon, and Chignik River sockeye salmon (5 AAC 15.357 (d)(3)).
- Allow subsistence salmon fishing in the Chignik Lake tributaries of Clark River and Home Creek one mile upstream from their confluence within Chignik Lake (5 AAC 01.475(2)).
- Restrict subsistence gillnets that are fixed, anchored, or otherwise held in place to obstruct no more than one half the width of any stream open to subsistence salmon fishing (5 AAC 01.470(a)).

## **2008 CHIGNIK SALMON MANAGEMENT**

The ADF&G targeted the lower bounds of the sockeye salmon escapement goals during the 2008 season (Table 3; Appendix A) based on limnology data from 2000 through 2007 that suggested the forage base for sockeye salmon was depressed in Chignik Lake (Bouwens and Finkle 2003a, b; Finkle 2005; Finkle 2006a, b; Finkle and Bouwens 2001). ADF&G first adopted this practice in 2002 to improve juvenile sockeye salmon production by relieving grazing pressure on zooplankton in Chignik Lake (Finkle and Bowens 2002).

The first commercial fishing period began on June 24, and the last commercial fishing period ended on September 27th. The commercial salmon fishery was open for a total of 73 days during 2008 (Figure 4). A total of 54 Chignik CFEC permit holders (excluding ADF&G test fish permit) participated in the 2008 commercial salmon season.

Salmon were delivered at three locations in 2008. Trident Seafoods located in Anchorage Bay and Trident Seafoods in Sand Point generally filleted or headed and gutted (H&G) the majority of Chignik salmon. Trident Seafoods processed salmon for the duration of the commercial salmon season. International Seafoods of Alaska Inc. (ISA) also tendered salmon from Chignik to their processing plant in Kodiak for the majority of the season.

On July 21, a fire destroyed the Trident fish processing plant in Chignik Bay. The source of the fire was isolated to the power generation room. As a result salmon could no longer be processed at the facility. In order to continue processing Trident brought in two floating processors.

## **CHIGNIK BAY, AND CENTRAL DISTRICTS COMMERCIAL SALMON FISHERY**

After department test fisheries were conducted in Chignik Lagoon the sockeye salmon run strength was assessed at the Chignik weir, the 2008 commercial salmon fishery began in the Chignik Bay and Central districts on June 24. The first fishing period was extended for a total of

168 hours then closed for approximately four days to achieve interim sockeye salmon escapement objectives (Figure 4). The second fishing period began on July 4, and was then extended up to 151 hours (Figure 4). Between the second and third openings, the Central and Chignik Bay districts were closed for approximately 9 days to achieve interim sockeye salmon escapement objectives.

On July 18, the Chignik Bay and Central districts opened to commercial salmon fishing. This fishing period was extended up to 150 hours followed by a closure of approximately four days to achieve interim sockeye salmon escapement objectives.

After this period, sockeye salmon escapement into the Chignik River watershed remained relatively consistent throughout the remaining commercial salmon season. As a result, the Chignik Bay and Central districts reopened on July 28 and largely remained open until the end of the commercial salmon season on September 17. In total, the Chignik Bay and Central districts were open for 73 days during 2008.

The Chignik Lagoon markers alternated between Humes Point and Mensis Point during the 2008 salmon season (Figure 5). Generally, the Humes Point markers were used for the first 24 to 48 hours of a commercial fishing period to allow the salmon above these markers to escape the fishery. The Humes Point markers were also used when sockeye salmon escapement was at or just above the lower bound of the interim escapement objectives. This increased escapement into the Chignik River and also allowed the department to assess the magnitude of salmon entering the lagoon by concentrating the effort in the lower lagoon. During periods when sockeye salmon abundance exceeded the upper bounds of the interim escapement objectives or during periods of limited fleet capacity, the closed waters in Chignik Lagoon were reduced to Mensis Point to control escapement and provide for additional harvest opportunities. A summary of emergency orders outlining the commercial salmon fisheries in the Chignik Bay and Central districts is located in Appendix B.

## **EASTERN DISTRICT COMMERCIAL SALMON FISHERY**

The Eastern District, by regulation (5 AAC 15.357 (c)(1)) opened concurrently with the Chignik Bay and Central districts during June (Figures 2 and 4). In 2008, the Eastern District was also opened concurrently with the Chignik Bay and Central districts through July 9.

Inseason aerial survey flights indicated that both local pink and chum salmon stocks were strong in the Eastern District. This, combined with higher prices for both pink and chum salmon resulted in increased effort from fishermen.

The Eastern District opened to commercial salmon fishing on July 20 and largely remained open for the remainder of the salmon season. In total, the Eastern District was open to commercial salmon fishing for 63 days during 2008 (Figure 4). A summary of emergency orders outlining the commercial salmon fisheries in the Eastern District is found in Appendix B.

## **WESTERN AND PERRYVILLE DISTRICTS COMMERCIAL SALMON FISHERY**

The Inner Castle Cape Subsection of the Western District, by regulation (5 AAC 15.357 (b)) opened concurrently with the Chignik Bay and Central districts in June (Figure 2 and 4). Also by regulation (5 AAC 15.357 (e)), the Western District, excluding the Inner Castle Cape Subsection, opened to commercial salmon fishing for two 48 hour periods with a mandatory 48 hour closure

between fishing periods through July 5. Both of these fishing periods were opened concurrently with the Chignik Bay and Central districts in June.

Excluding the Inner Castle Cape Section of the Western District, and the two 48 hour fishing periods, the Western and Perryville districts are closed to commercial salmon fishing through July 5 (5 AAC 15.357 (d)). Beginning approximately July 6, these districts can be opened on a commercial test fishery basis targeting migrating pink and chum salmon. Once fish enter local streams, management shifts to an escapement-based strategy.

On July 6 2008, the Western and Perryville districts opened to commercial salmon fishing for a period of 104 hours based on adequate Chignik late-run sockeye salmon escapement. On July 20, the Western and Perryville districts reopened to commercial salmon fishing for a 96 hour period. Inseason aerial survey flights indicated that local pink and chum salmon stocks were within escapement objectives.

Adequate escapement combined with higher prices for both pink and chum salmon resulted in increase effort when the Western and Perryville districts reopened to commercial salmon fishing on July 28. The districts then mostly remained open for the remainder of the salmon season until finally closing on September 27 (Figure 4). In total, the Western District was open to commercial salmon fishing for 58 days, and the Perryville District for 54 days during 2008 (Figure 4). A summary of emergency orders outlining the commercial salmon fisheries in the Western and Perryville districts is found in Appendix B.

## **ESCAPEMENT AND HARVEST DATA**

### **Stock Separation Techniques**

Two distinct sockeye salmon runs (an early and late run) enter the Chignik River watershed and temporally overlap during late June and early 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). This program was discontinued prior to the 2004 season due to funding limitations. However, examination of SPA data revealed that, on average, the number of early-run sockeye salmon that passed the Chignik River weir after July 4 was approximately equal to the number of late-run sockeye salmon that passed the weir prior to July 4. The 2008 fishery was managed based on this date such that through July 4, fishing periods were based on achieving interim early-run escapement objectives and beginning July 5, fishing periods were based on achieving interim late-run escapement objectives (Table 3).

### **Escapement Information**

In 2007, a salmon escapement goal review team, including staff from the Division of Commercial Fisheries and the Sport Fish Division, was formed to review salmon escapement goals in the CMA (Witteveen et. al. 2007). The team recommended no change to the Chignik River Chinook salmon biological escapement goal (BEG) range of (1,300-2,700).

The team additionally recommended no change for the early-run sustainable escapement goal (SEG) range of 350,000-400,000 (Table 3). However, the team recommended changing the late-run goal range from a SEG of 200,000-250,000, to a SEG of 200,000-400,000. For subsistence fishermen an inriver run goal (IRRG) of 50,000 sockeye salmon (25,000 sockeye salmon in

August and 25,000 in September) was added to the late-run SEG and yielded a total late-run escapement objective range of 250,000-400,000 sockeye salmon (Witteveen et al. 2007).

The team also recommended revising the (even- and odd-year) pink salmon aggregate BEGs to an aggregate SEG (Witteveen et al. 2007). The team recommended changing the even-year BEG to a SEG range of 200,000-600,000 pink salmon, and the odd-year BEG to a SEG range of 500,000-800,000 pink salmon.

The team similarly recommended changing the area-wide aggregate chum salmon SEG from a threshold of 50,400 to a threshold of 57,400. The directors of the Division of Commercial Fisheries and the Division of Sport Fish approved the team's escapement goal recommendations, which were implemented for the 2008 season.

In 2008, salmon escapements to the Chignik River were enumerated through the use of a weir. There were two gates in the weir, which were generally always open to allow for unrestricted fish passage. Underwater video equipment was used to count fish passing through the weir gates. At night, lights allowed fish to be counted. The number of fish passing the weir, by species, were counted for the first 10 minutes of each hour, then multiplied by six to obtain hourly escapement estimates. Hourly estimates were then summed to provide an estimate of daily fish passage. Camera footage from each 10 minute escapement count was recorded and archived.

The majority of the Chignik River Chinook, sockeye, pink, and chum salmon escapements were counted through the weir. Since Dolly Varden *Salvelinus malma* were not commercially harvested or actively managed in the CMA, their escapements are noted in the tables of this document for historical comparisons but not discussed in detail in the escapement section below. The first count of the 2008 season was on May 25, and the last full count of the season was on September 2 after which the weir was removed. A post-weir sockeye salmon escapement estimate was produced using time series analysis and the results were grouped into two reporting periods: September 3 to 15 and September 16 to 30. The 2008 coho salmon counts were still building when the weir was pulled precluding a post weir analysis and the run was considered incomplete.

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***

Chinook salmon began entering the Chignik River during mid-June. The run peaked by mid-July, and was over by late August (Table 4; Figure 6). The 2008 Chignik River Chinook salmon escapement of 1,730 fish was below recent 5-, 10-, and 20-year average escapements (Table 5) but was within the Chignik River Chinook BEG range of 1,300 to 2,700 fish (Figure 7; Witteveen et al. 2007). The Chignik River is the only stream with substantial Chinook salmon production within the CMA.

### ***Sockeye Salmon***

Chignik River watershed sockeye salmon are managed based on interim escapement objectives, by run (Table 3; Witteveen et al. 2007). The Chignik River sockeye salmon early run peaked in mid-to-late June while the late run peaked during mid July (Table 6; Figure 8). The 2008 estimated total Chignik River watershed sockeye salmon escapement was 706,058 fish, which was above the 5-year escapement average but below the 10- and 20-year escapement averages

(Table 7). The early-run escapement was estimated at 377,579 sockeye salmon, which was within the early-run SEG range of 350,000 to 400,000 fish (Table 7; Figure 9). The late-run escapement was estimated at 328,479 sockeye salmon, which was within the late-run management objective range of 250,000 to 400,000 fish (Table 7; Figure 9). Since the weir was removed before the late run was complete, a post-weir sockeye salmon escapement estimate was produced using time series analysis. These results were reported grouped into periods from September 3 to 15 (12,710 fish) and September 16 to 30 (9,860 fish) and included in the late-run total estimate of escapement (Table 6).

Aerial survey counts of Black Lake tributaries indicated that the Alec River contained the highest concentration of early-run spawning sockeye salmon (Table 8). Likewise, aerial surveys of Chignik Lake tributaries indicated that Hatchery Beach contained the highest concentration of late-run spawning sockeye salmon (Table 9).

Sockeye salmon escapements were documented, via aerial survey, in low numbers (generally less than 1,000 fish) in several other CMA streams. Due to small run sizes and limited effort, escapement goals for these streams have not been established (Witteveen et al. 2007).

### ***Coho Salmon***

Coho salmon enter CMA drainages in mid-August and generally continue through November. The 2008 Chignik River coho salmon escapement estimate through September 2 was 13,958 (Table 4), which was lower than the recent 5- but greater than the 10-year average escapements (Table 5). Coho salmon escapements were monitored, via aerial survey, in low numbers (generally less than 2,000 fish) in several other CMA streams.

Due to late season run timing and limited directed effort, escapement goals for coho salmon have not been established in the CMA (Witteveen et al. 2007).

### ***Pink Salmon***

During 2008, pink salmon began entering the Chignik River during late June and peaked in late August with a total escapement of 22,341 salmon (Table 5). The 2008 pink salmon escapement into the Chignik River was the largest documented escapement on record and well above the most recent 5- and 10-year average escapements (Table 5).

Escapements into other CMA streams were monitored via aerial surveys and compared to the area-wide even-year aggregate SEG for pink salmon (Witteveen et al. 2007). The 2008 overall combined escapement for the CMA was approximately 863,031 pink salmon, which exceeded the area wide aggregate even-year SEG range of 200,000 to 600,000 fish (Table 10).

### ***Chum Salmon***

A limited number of chum salmon return to the Chignik River, mainly in August (Table 4). The 2008 Chignik River chum salmon escapement was 124 fish, which was below recent 5- and 10-year average escapements (Table 5).

Escapements into other CMA streams were monitored via aerial surveys and compared to the area-wide aggregate SEG for chum salmon (Witteveen et al. 2007). The total 2008 CMA chum salmon escapement of 197,259 was over three times the area wide aggregate SEG lower bound of 57,400 (Table 11).

## **Harvest Information**

Commercial salmon harvest information for 2008 was organized into four categories. The first category included salmon that were commercially harvested but retained for private use (home pack). The second category included salmon that were harvested and sold as part of the ADF&G test fishery program. The third category included sockeye salmon commercially harvested within the CMA. The final category included sockeye salmon commercially harvested under the Cape Igvak and SEDM management plans; for allocative purposes, the BOF has determined that specific portions of these harvests were considered bound for the Chignik River.

Salmon harvested under subsistence regulations or the ADF&G Chignik test fishery were not included in any of the current harvest allocations. Home pack fish were not included in the Cape Igvak and SEDM allocations. All harvest information in this report was calculated from the ADF&G fish ticket database and supersedes any previously published data. A complete summary of 2008 commercial salmon harvest and effort is found in Appendix C.

### ***Chinook Salmon***

A total of 970 Chinook salmon were harvested from the CMA in 2008, which was less than the recent 5-, 10-, and 20-year average Chinook salmon harvests and the lowest since 1977 (Table 12). No Chinook salmon were harvested as part of the department's test fishery program, and 15 fish were retained as home pack (Table 13). Most of the CMA Chinook salmon harvest in 2008 came from the Western District, but a substantial portion of the total harvest also occurred in the Chignik Bay and Central districts (Table 14). In 2008, Chinook salmon were primarily harvested from June through early August (Table 15).

### ***Sockeye Salmon***

A total of 687,270 sockeye salmon were harvested in the CMA during 2008, which was less than the 5-, 10-, and 20-year average harvests (Tables 12 and 16). The department's test fishery program harvested 5,166 of these salmon and no fish were retained as home pack (Table 16). The vast majority of the CMA sockeye salmon harvest in 2008 occurred in the Chignik Bay District (Table 17), and most sockeye salmon were harvested from mid-June through the end of July (Table 18).

The Cape Igvak and SEDM fisheries were not opened during the allocation period (June 1 through July 25) due to low sockeye salmon harvests in the CMA. Therefore, no sockeye salmon allocatively considered Chignik-bound were harvested as part of the Cape Igvak or SEDM fisheries during 2008 (Table 19).

The Chignik River early-run harvest of 253,490 sockeye salmon was well below 5-, 10- and 20-year harvest averages (Table 20; Figure 10). The 2008 late-run harvest of 433,780 sockeye salmon was also below 5-, 10- and 20-year harvest averages (Table 20; Figure 11). The 2008 total Chignik-bound commercial sockeye salmon harvest was 687,270 fish for a total run estimate (harvest + escapement) of 1,393,328 sockeye salmon (Table 20; Figure 12).

The early run was below the 2008 forecast by approximately 70 percent while the late run was above the projected forecast by 15 percent (Table 21).

### ***Coho Salmon***

A total of 161,536 coho salmon were harvested in the CMA during 2008, which was above the 5-, 10-, and 20-year average harvest (Tables 12 and 22). All coho salmon were sold to processors

by fishermen (Table 22). The majority of the 2008 coho salmon harvest occurred in the Chignik Bay, and Western districts during July and August (Tables 23 and 24).

### ***Pink Salmon***

The 2008 pink salmon harvest in the CMA was the second largest harvest since at least 1970. A total of 2,389,958 pink salmon were harvested during 2008, which was well above the 5-, 10-, and 20-year average harvests (Tables 12 and 25). All commercially harvested pink salmon were sold to processors by fishermen (Table 25). The majority of pink salmon harvest occurred in the Western District although notable harvests also occurred in the Chignik Bay, Central, and Eastern, and Perryville districts (Table 26). Most pink salmon were harvested between late-July and mid-August (Tables 27).

### ***Chum Salmon***

A total of 209,325 chum salmon were harvested from the CMA during 2008, higher than the 5-, 10-, and 20-year harvest averages (Tables 12 and 28). All chum salmon were sold to processors by fishermen (Table 28). The majority of the 2008 chum salmon harvest occurred in the Eastern and Western districts during August (Tables 29 and 30).

### **Economic Value**

Since the end of the Chignik cooperative in 2005, approximately half of Chignik's 101 purse seine permits have been active. In 2008, only 54 CMA permit holders made deliveries (Table 31). The exvessel value of the 2008 CMA salmon harvest was about \$7.26 million, or approximately \$134,000 per permit holder, which was above the prior 5-, 10-, and 20-year exvessel value averages (Table 31; Figure 12). The vast majority of exvessel revenue was from the sale of sockeye salmon (\$4.12 million). The large 2008 pink salmon harvest provided \$33,536 per permit holder while, coho, chum, and Chinook salmon provided \$14,413, \$9,877, and \$282 respectively, per active permit holder (Table 31).

### **CHIGNIK LAGOON TEST FISHERIES**

ADF&G conducts test fisheries in Chignik Lagoon for multiple purposes. Early-season test fisheries are used to determine buildup of salmon prior to the first commercial fishery, to collect sockeye salmon scale samples to determine age composition, and to generate revenue to pay for the vessels chartered to conduct the test fisheries. Subsequent test fisheries are conducted to assess salmon abundance in Chignik Lagoon during fishery closures, and offset operational costs associated with the scale sampling program (Stichert 2008).

The department conducted six test fisheries during 2008 for a total harvest of 5,166 salmon. The first test fishery occurred on June 9, when 212 sockeye salmon were harvested. Four additional test fisheries were conducted prior to the first commercial fishing period in the CMA. The second, third, fourth, and fifth test fisheries occurred on June 12, 16, 19, and 22. A total of 4,954 sockeye salmon were harvested during these fisheries.

### **CHIGNIK AREA SUBSISTENCE SALMON FISHERIES**

In the past five years, large pulses of salmon did not build in Chignik Lagoon or pass through the weir. Thus, early-season subsistence fishing opportunities were limited by the slow movement of

fish. Consequently, several subsistence users reported they had difficulty harvesting enough salmon to meet their needs.

In response to these concerns, the BOF (November 2004) increased subsistence fishing opportunities in the CMA. The Chignik River was historically closed to subsistence salmon fishing by regulation (5 AAC 01.475). However, beginning in 2005 the BOF opened the Chignik River to subsistence salmon fishing with some restrictions. The section of Chignik River starting 300 feet below the weir was open to subsistence fishing year-round. The section from 300 feet above the weir to the outlet of Chignik Lake was not open from July 1 through August 31 to protect spawning Chinook salmon.

Historically, CMA commercial fishing license holders were not allowed to subsistence fish for salmon from 48 hours before the first commercial salmon fishing period through September 30. This regulation was relaxed via provisions of the subsistence fishing permit to allow fishermen to harvest subsistence fish during the commercial fishing season in 2003 and 2004. Beginning in 2005, the BOF adopted formal regulations that allowed commercial salmon fishing license holders to, with certain restrictions (5 AAC 01.485), harvest subsistence salmon during the commercial season.

In 2008, the ADF&G issued 89 subsistence fishing permits in the CMA. Based on the 69 permits returned to the ADF&G Division of Subsistence, the estimated subsistence harvest totaled 8,783 salmon. This harvest was lower than the previous 5-, and 10-year subsistence harvest averages (Table 32). Sockeye salmon comprised the majority of the 2008 subsistence harvest.

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## **TABLES AND FIGURES**

Table 1.–List of Chignik Management Area herring management units.

Area	Stat. Area(s)
Chignik Lagoon and Bay	271-10 to 272-40
Kujulik	272-50
Big River	272-60 to 272-70
Cape Kumlik	272-62 to 272-64
Yantarni	272-72 to 272-80
Chiginagak	272-90
Agripina	272-92 to 272-96
Mitrofanina	273-70 to 273-74
Domer Bay	273-82 to 273-84
Castle Cape	273-90 to 273-94
Perryville	275-60
Humpback Bay	275-50
Ivanof Bay	275-40

Table 2.–Chignik Management Area commercial herring harvest, 1980 through 2008.

Year	Harvest (tons)
1980	587
1981	441
1982	190
1983	88
1984	66
1985	0
1986	11
1987	75
1988	59
1989	66
1990	0
1991	0
1992	0
1993	0
1994	0
1995	77
1996	6
1997	0
1998	0
1999	0
2000	0
2001	0
2002	0
2003	0
2004	0
2005	0
2006	0
2007	0
2008	0

Table 3.—Chignik River sockeye salmon interim escapement objectives, 2008.

Date	Escapement		Date	Escapement	
	Lower	Upper		Lower	Upper
June 2	1,200	1,400	August 3	172,500	295,700
June 4	4,000	4,500	August 6	178,700	306,300
June 6	9,800	11,200	August 9	184,600	316,300
June 8	17,900	20,400	August 12	190,600	326,600
June 10	29,500	33,700	August 15	196,200	336,200
June 12	51,200	58,500	August 18	201,900	346,000
June 14	83,000	114,700	August 21	207,400	355,400
June 16	116,000	179,500	August 24	213,300	365,600
June 18	145,300	231,000	August 27	218,800	374,900
June 20	170,900	284,600	August 31	225,000	385,700
June 22	202,100	299,200			
June 25	248,900	312,200	September 3	228,000	391,100
June 28	282,900	323,300	September 5	231,000	393,000
July 1	323,600	337,600	September 7	235,000	395,000
July 4	350,000	400,000 <sup>a</sup>	September 9	239,000	396,800
			September 11	243,000	398,100
July 6	7,000	11,900	September 13	247,000	399,000
July 8	19,900	34,100	September 15	250,000	400,000
July 10	32,600	56,000			
July 12	44,400	76,100			
July 14	58,900	101,000			
July 16	76,400	131,000			
July 19	96,600	165,700			
July 23	122,200	209,500			
July 26	141,800	243,100			
July 29	158,200	271,100			
July 31	165,500	283,700			

**Escapement Objectives**

**Through July 4: 350,000 - 400,000**

**July 5 - September 15: 250,000 - 400,000**

<sup>a</sup> July 4 is historically the date on which the cumulative inseason escapement most closely approximated the early-run escapement as estimated by post-season scale pattern analysis.

Table 4.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, by day, 2008.

Date	Chinook		Coho		Pink		Chum		Dolly Varden	
	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative
5/25	0	0	0	0	0	0	0	0	0	0
5/26	0	0	0	0	0	0	0	0	6	6
5/27	0	0	0	0	0	0	0	0	0	6
5/28	0	0	0	0	0	0	0	0	6	12
5/29	0	0	0	0	0	0	0	0	0	12
5/30	0	0	0	0	0	0	0	0	0	12
5/31	0	0	0	0	0	0	0	0	12	24
6/1	0	0	0	0	0	0	0	0	0	24
6/2	0	0	0	0	0	0	0	0	0	24
6/3	0	0	0	0	0	0	0	0	0	24
6/4	0	0	0	0	0	0	0	0	0	24
6/5	0	0	0	0	0	0	0	0	0	24
6/6	0	0	0	0	0	0	0	0	0	24
6/7	0	0	0	0	0	0	0	0	0	24
6/8	0	0	0	0	0	0	0	0	0	24
6/9	0	0	0	0	0	0	0	0	12	36
6/10	0	0	0	0	0	0	0	0	6	42
6/11	0	0	0	0	0	0	0	0	0	42
6/12	0	0	0	0	0	0	0	0	0	42
6/13	0	0	0	0	0	0	0	0	0	42
6/14	0	0	0	0	0	0	0	0	0	42
6/15	0	0	0	0	0	0	0	0	0	42
6/16	0	0	0	0	0	0	0	0	0	42
6/17	0	0	0	0	0	0	0	0	6	48
6/18	0	0	0	0	0	0	0	0	12	60
6/19	6	6	0	0	0	0	0	0	0	60
6/20	0	6	0	0	0	0	0	0	0	60
6/21	0	6	0	0	0	0	0	0	0	60
6/22	0	6	0	0	0	0	0	0	0	60
6/23	0	6	0	0	0	0	0	0	0	60
6/24	0	6	0	0	0	0	0	0	0	60
6/25	12	18	0	0	0	0	0	0	3	63
6/26	0	18	0	0	0	0	0	0	90	153
6/27	0	18	0	0	0	0	0	0	42	195
6/28	0	18	0	0	0	0	0	0	42	237
6/29	6	24	0	0	0	0	0	0	62	299
6/30	6	30	0	0	0	0	0	0	42	341
7/1	0	30	0	0	0	0	0	0	108	449
7/2	6	36	0	0	0	0	0	0	162	611
7/3	30	66	0	0	0	0	0	0	432	1,043
7/4	42	108	0	0	6	6	0	0	1,266	2,309
7/5	6	114	0	0	12	18	0	0	576	2,885
7/6	30	144	0	0	6	24	0	0	924	3,809
7/7	18	162	0	0	0	24	0	0	324	4,133
7/8	18	180	0	0	0	24	0	0	210	4,343
7/9	48	228	0	0	0	24	0	0	640	4,983
7/10	13	241	0	0	6	30	0	0	108	5,091
7/11	24	265	0	0	0	30	0	0	402	5,493
7/12	43	308	0	0	12	42	0	0	463	5,956

-continued-

Table 4.–Page 2 of 2.

Date	Chinook		Coho		Pink		Chum		Dolly Varden	
	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative	Daily	Cumulative
7/13	45	353	0	0	18	60	0	0	824	6,780
7/14	31	384	0	0	12	72	0	0	454	7,234
7/15	98	482	0	0	6	78	0	0	337	7,571
7/16	78	560	0	0	12	90	0	0	475	8,046
7/17	149	709	0	0	30	120	6	6	186	8,232
7/18	120	829	0	0	0	120	0	6	250	8,482
7/19	98	927	0	0	6	126	0	6	132	8,614
7/20	92	1,019	0	0	18	144	6	12	156	8,770
7/21	91	1,110	0	0	0	144	0	12	174	8,944
7/22	36	1,146	0	0	12	156	6	18	97	9,041
7/23	26	1,172	0	0	36	192	0	18	109	9,150
7/24	48	1,220	0	0	41	233	6	24	94	9,244
7/25	31	1,251	0	0	108	341	6	30	180	9,424
7/26	37	1,288	0	0	318	659	0	30	463	9,887
7/27	55	1,343	0	0	264	923	0	30	282	10,169
7/28	48	1,391	0	0	324	1,247	6	36	200	10,369
7/29	32	1,423	0	0	192	1,439	6	42	249	10,618
7/30	38	1,461	0	0	48	1,487	7	49	192	10,810
7/31	25	1,486	0	0	186	1,673	0	49	120	10,930
8/1	12	1,498	0	0	402	2,075	0	49	84	11,014
8/2	6	1,504	0	0	636	2,711	6	55	204	11,218
8/3	12	1,516	0	0	354	3,065	6	61	144	11,362
8/4	24	1,540	0	0	306	3,371	0	61	108	11,470
8/5	24	1,564	0	0	400	3,771	0	61	216	11,686
8/6	8	1,572	0	0	487	4,258	12	73	64	11,750
8/7	6	1,578	0	0	456	4,714	0	73	48	11,798
8/8	6	1,584	0	0	342	5,056	0	73	42	11,840
8/9	6	1,590	0	0	557	5,613	0	73	187	12,027
8/10	6	1,596	0	0	558	6,171	18	91	156	12,183
8/11	7	1,603	0	0	1,598	7,769	0	91	245	12,428
8/12	6	1,609	0	0	2,460	10,229	0	91	179	12,607
8/13	19	1,628	2	2	3,588	13,817	0	91	36	12,643
8/14	1	1,629	14	16	1,230	15,047	3	94	18	12,661
8/15	0	1,629	0	16	307	15,354	0	94	66	12,727
8/16	0	1,629	6	22	851	16,205	0	94	9	12,736
8/17	7	1,636	0	22	991	17,196	0	94	38	12,774
8/18	30	1,666	14	36	3,338	20,534	0	94	48	12,822
8/19	12	1,678	7	43	889	21,423	0	94	114	12,936
8/20	16	1,694	3	46	292	21,715	0	94	56	12,992
8/21	6	1,700	18	64	300	22,015	6	100	48	13,040
8/22	6	1,706	48	112	196	22,211	6	106	36	13,076
8/23	12	1,718	68	180	130	22,341	12	118	9	13,085
8/24	0	1,718	32	212	0	22,341	0	118	30	13,115
8/25	6	1,724	184	396	0	22,341	0	118	26	13,141
8/26	6	1,730	186	582	0	22,341	0	118	294	13,435
8/27	0	1,730	974	1,556	0	22,341	0	118	284	13,719
8/28	0	1,730	939	2,495	0	22,341	0	118	0	13,719
8/29	0	1,730	850	3,345	0	22,341	6	124	388	14,107
8/30	0	1,730	1,205	4,550	0	22,341	0	124	51	14,158
8/31	0	1,730	3,411	7,961	0	22,341	0	124	210	14,368
9/1	0	1,730	3,843	11,804	0	22,341	0	124	228	14,596
9/2	0	1,730	2,154	13,958	0	22,341	0	124	180	14,776

Table 5.—Estimated Chignik River Chinook, coho, pink, and chum salmon, and Dolly Varden escapement, 1970 through 2008.

Year	Escapement <sup>a</sup>				
	Chinook <sup>b</sup>	Coho <sup>c</sup>	Pink <sup>c</sup>	Chum <sup>c</sup>	Dolly Varden <sup>c</sup>
1970	2,500	ND	ND	ND	ND
1971	2,000	ND	ND	ND	ND
1972	1,500	ND	ND	ND	ND
1973	822	ND	ND	ND	ND
1974	672	ND	ND	ND	ND
1975	877	ND	ND	ND	ND
1976	700	ND	ND	ND	ND
1977	798	ND	ND	ND	ND
1978	1,197	ND	ND	ND	ND
1979	1,050	ND	ND	ND	ND
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
Averages					
1988-07	4,066	-	-	-	-
1998-07	4,393	12,503	7,982	135	-
2003-07	5,255	18,413	11,328	194	15,889

<sup>a</sup> A video monitoring system was installed at the Chignik weir in 1994.

<sup>b</sup> No escapement adjustments are made for Chinook salmon that spawn below the weir, or those removed by the sport fishery. Only Chinook salmon larger than approximately 650 mm were enumerated for escapement estimates from 1970 to 1993.

<sup>c</sup> No reliable escapement estimates were generated for pink, chum, or coho salmon or Dolly Varden from 1970 to 1996. No post-weir estimates are reported here for these species.



Table 7.—Total Chignik River sockeye salmon escapement and escapement goals, based on postseason analysis, by run, 1970 through 2008.

Year	Early Run	Late Run	Total
1970	536,257	119,952	656,209
1971	671,668	232,501	904,169
1972	326,320	231,270	557,590
1973	533,047	249,144	782,191
1974	351,701	326,245	677,946
1975	308,914	268,734	577,648
1976	551,254	279,509	830,763
1977	482,247	251,753	734,000
1978	458,660	223,887	682,547
1979	385,694	352,122	737,816
1980	311,332	352,729	664,061
1981	438,540	392,909	831,449
1982	616,117	221,601	837,718
1983	426,177	409,458	835,635
1984	597,712	267,862	865,574
1985	376,576	369,262	745,838
1986	566,088	207,231	773,319
1987	589,291	214,452	803,743
1988	420,577	255,180	675,757
1989	384,004	557,171	941,175
1990	434,543	335,867	770,410
1991	672,871	367,227	1,040,098
1992	360,681	405,922	766,603
1993	364,261	333,116	697,377
1994	769,462	197,447	966,909
1995	366,163	373,757	739,920
1996	464,461	284,676	749,137
1997	396,667	378,951	775,618
1998	410,659	290,469	701,128
1999	457,429	258,537	715,966
2000	536,141	269,084	805,225
2001	744,013	392,905	1,136,918
2002	380,701	343,616	724,317
2003	350,004	334,119	684,123
2004	363,800	214,459	578,259
2005	355,091	225,366	580,457
2006	366,497	368,996	735,493
2007	361,091	293,883	654,974
2008	377,579	328,479	706,058

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Table 7.–Page 2 of 2.

Year	Early Run	Late Run	Total
SEG	350,000-400,000	200,000-400,000	550,000-800,000
IRRG	-	50,000	-
Total	350,000-400,000	250000-400,000	600,000-800,000
Averages			
1988-07	447,956	324,037	771,993
1998-07	432,543	299,143	731,686
2003-07	359,297	287,365	646,661

Table 8.—Peak sockeye salmon aerial survey escapement estimates for Black Lake tributaries, 1960 through 2008.

Year	Fan Creek	Milk Creek	Boulevard Creek	Alec River	Conglomerate Creek	Broad Creek	Total
1960	38,500	8,000	40,000	30,000	3,000	30,000	149,500
1961	27,000	5,000	28,700	25,000	800	17,000	103,500
1962	18,000	7,000	13,000	60,000	200	15,000	113,200
1963	39,000	ND	36,000	85,000	1,000	61,000	222,000
1964	19,500	3,050	23,850	17,900	9,300	9,500	83,100
1967	20,000	1,000	9,000	156,000	10,000	10,000	206,000
1968	32,000	2,400	20,000	60,000	2,000	4,100	120,500
1969	103,000	2,100	33,000	50,000	4,000	5,000	197,100
1970	146,000	9,000	55,500	198,000	5,000	ND	413,500
1971	105,000	14,000	85,000	158,000	0	ND	362,000
1972	18,000	3,500	19,000	74,000	400	ND	114,900
1973	115,000	4,000	76,000	74,000	5,000	ND	274,000
1974	90,000	5,000	50,000	93,000	5,000	ND	243,000
1975	40,000	4,500	25,000	87,000	0	ND	156,500
1976	78,000	8,900	100,000	119,000	2,000	ND	307,900
1977	88,000	20,000	127,000	133,000	1,000	ND	369,000
1978	114,000	3,300	74,000	83,300	500	ND	275,100
1979	37,000	11,800	32,000	105,100	400	26,100	212,400
1980	127,000	16,000	75,000	70,500	1,500	68,000	358,000
1981	93,000	4,700	59,000	76,500	20,000	27,000	280,200
1982	50,000	5,500	60,000	43,000	20,000	32,000	210,500
1983	ND	ND	ND	ND	ND	ND	-
1984	50,000	22,200	70,000	30,500	31,000	36,000	239,700
1985	28,000	5,500	36,000	65,000	5,500	17,000	157,000
1986	60,000	15,300	47,000	76,000	39,000	27,000	264,300
1987	52,000	12,200	133,000	88,400	45,900	32,500	364,000
1988	54,000	71,000	83,700	106,500	2,300	26,500	344,000
1989	19,300	21,000	64,000	133,000	1,000	7,500	245,800
1990	32,600	7,400	35,900	49,800	2,200	18,000	145,900
1991	14,600	19,500	48,000	ND	2,000	13,000	97,100
1992	ND	ND	ND	392,000	ND	ND	392,000
1993	40,900	12,600	97,600	8,000	77,000	18,200	254,300
1994	70,000	25,000	125,000	350,000	20,000	51,000	641,000
1995	23,000	10,000	60,000	200,000	40,000	60,000	393,000
1996	40,000	24,000	51,000	100,000	50,000	45,000	310,000
1997	60,000	5,000	48,000	166,000	8,000	20,000	307,000
1998	90,000	14,000	100,000	50,000	9,000	62,000	325,000
1999	70,000	8,100	50,000	226,000	1,000	22,000	377,100
2000	41,000	29,000	126,000	210,000	26,000	93,000	525,000

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Table 8.–Page 2 of 2.

Year	Fan Creek	Milk Creek	Boulevard Creek	Alec River	Conglomerate Creek	Broad Creek	Total
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
Averages							
1988-07	39,884	16,282	68,409	155,039	14,883	32,588	293,927
1998-07	40,339	10,161	68,684	142,822	7,267	36,850	274,844
2003-07	16,478	2,798	14,290	142,850	3,600	7,267	151,668

Table 9.—Peak sockeye salmon aerial survey escapement estimates for Chignik Lake and Black River tributaries, 1960 through 2008.

Year	Bearskin Creek	West Fork	Chiaktuak Creek	Total	Clark River	Home Creek	Hatchery Beach	Total
1960	11,600	23,000	19,000	53,600	ND	ND	ND	-
1961	2,500	17,100	20,700	40,300	ND	ND	ND	-
1962	3,000	13,000	24,000	40,000	ND	ND	ND	-
1963	900	5,000	9,000	14,900	ND	ND	ND	-
1964	500	4,500	7,000	12,000	ND	ND	ND	-
1967	10,000	25,000	31,000	66,000	ND	ND	ND	-
1968	1,200	10,500	10,000	21,700	ND	ND	ND	-
1969	50	800	1,500	2,350	ND	ND	ND	-
1970	450	4,000	4,000	8,450	ND	ND	ND	-
1971	3,500	5,500	47,000	56,000	ND	ND	ND	-
1972	1,400	4,300	23,000	28,700	ND	ND	ND	-
1973	13	4,100	1,500	5,613	ND	ND	ND	-
1974	450	8,000	7,000	15,450	ND	ND	ND	-
1975	65	2,500	2,500	5,065	ND	ND	ND	-
1976	2,650	23,700	7,700	34,050	ND	ND	ND	-
1977	200	13,600	6,900	20,700	ND	ND	ND	-
1978	410	9,600	8,500	18,510	ND	ND	ND	-
1979	918	7,610	29,000	37,528	ND	ND	ND	-
1980	3,600	33,000	40,400	77,000	ND	ND	ND	-
1981	950	1,500	18,700	21,150	ND	ND	ND	-
1982	1,066	10,791	5,000	16,857	ND	ND	ND	-
1983	ND	ND	6,000	6,000	ND	ND	ND	-
1984	ND	ND	ND	8,200	ND	ND	ND	-
1985	350	450	1,200	2,000	ND	ND	ND	-
1986	ND	ND	8,300	8,300	ND	ND	ND	-
1987	ND	ND	1,000	1,000	ND	ND	ND	-
1988	ND	ND	4,600	4,600	ND	ND	ND	-
1989	ND	ND	2,100	2,100	ND	ND	ND	-
1990	300	0	50	350	ND	ND	ND	-
1991	ND	ND	ND	ND	ND	ND	ND	-
1992	ND	ND	ND	ND	ND	ND	ND	-
1993	ND	ND	16,000	16,000	ND	ND	ND	-
1994	5,000	ND	31,000	36,000	18,000	9,200	ND	27,200
1995	7,100	18,000	31,000	56,100	13,000	6,000	150,000	169,000
1996	1,800	22,000	22,000	45,800	13,000	5,500	70,000	88,500
1997	9,000	9,000	23,500	41,500	25,000	8,000	35,000	68,000
1998	4,700	71,000	27,500	103,200	21,000	6,000	62,000	89,000
1999	8,300	17,500	13,000	38,800	8,500	1,620	15,000	25,120
2000	2,600	3,700	10,600	16,900	18,000	19,700	2,000	39,700

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Table 9.–Page 2 of 2.

Year	Bearskin Creek	West Fork	Chiaktuak Creek	Total	Clark River	Home Creek	Hatchery Beach	Total
2001	ND	ND	9,500	9,500	23,000	11,000	25,000	59,000
2002	ND	15,000	2,300	17,300	ND	ND	ND	-
2003	ND	ND	2,000	2,000	ND	ND	ND	-
2004	100	600	750	1,450	2,500	2,000	ND	4,500
2005	900	900	5,100	6,900	ND	ND	ND	-
2006	1,400	3,500	6,200	11,100	13,500	3,000	3,000	19,500
2007	400	14,500	30,300	45,200	59,000	9,800	65,000	133,800
2008	13,500	18,000	39,600	71,100	39,500	12,300	106,000	157,800
Averages								
1988-07	4,238	14,900	13,194	27,679	21,167	7,843	47,444	65,756
1998-07	2,629	15,838	10,725	25,235	20,786	7,589	28,667	52,946
2003-07	700	4,875	8,870	13,330	25,000	4,933	34,000	52,600

Table 10.—Estimated pink salmon escapement in the Chignik Management Area by district and year, 1960 through 2008.

Year <sup>b</sup>	District <sup>a</sup>					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1960	ND	28,000	130,000	48,600	123,800	330,400
1961	ND	4,650	9,500	60,100	34,750	109,000
1962	30,000	83,900	401,700	242,000	155,500	913,100
1963	20,700	92,600	126,200	305,000	162,000	706,500
1964	20,000	131,100	605,700	165,000	72,000	993,800
1965	11,000	65,800	64,800	152,000	82,000	375,600
1966	71,300	62,600	302,200	179,300	90,000	705,400
1967	5,700	18,500	56,100	104,400	155,300	340,000
1968	81,400	66,100	390,300	151,300	128,700	817,800
1969	11,700	69,600	46,000	422,000	218,600	767,900
1970	43,600	60,700	201,700	202,000	72,600	580,600
1971	5,500	74,800	23,000	268,800	45,000	417,100
1972	5,800	3,100	15,900	8,600	7,800	41,200
1973	2,200	50,200	12,800	62,400	31,500	159,100
1974	4,000	9,800	76,200	77,400	60,200	227,600
1975	1,200	26,400	23,500	141,700	45,300	238,100
1976	12,300	66,000	228,800	114,200	89,300	510,600
1977	3,000	199,900	76,000	355,500	115,400	749,800
1978	10,700	101,200	309,300	333,400	157,500	912,100
1979	1,200	297,000	194,300	185,000	181,300	858,800
1980	3,000	99,400	425,500	139,500	74,800	742,200
1981	1,400	76,500	154,700	249,300	116,000	597,900
1982	2,400	26,100	301,500	45,900	13,400	389,300
1983	1,000	11,000	46,300	36,000	64,500	158,800
1984	123,200	94,000	486,500	188,000	109,800	1,001,500
1985	ND	7,400	212,100	67,500	235,200	522,200
1986	ND	121,900	580,700	43,800	180,500	926,900
1987	ND	65,700	215,600	38,300	65,700	385,300
1988	22,400	216,400	1,005,400	232,400	181,300	1,657,900
1989	13,500	215,000	881,000	57,900	267,400	1,434,800
1990	6,000	131,900	811,400	44,300	88,400	1,082,000
1991	12,200	201,100	125,000	96,800	343,500	778,600
1992	55,800	223,800	1,318,100	38,800	190,400	1,826,900
1993	2,000	160,900	524,700	45,800	448,400	1,181,800
1994	75,800	178,900	863,300	111,600	153,900	1,383,500
1995	180,500	715,500	1,399,300	554,700	582,100	3,432,100
1996	43,100	237,100	1,059,600	220,800	395,700	1,956,300
1997	59,400	594,600	1,287,700	306,300	221,500	2,469,500
1998	24,400	210,900	1,273,200	150,400	222,800	1,881,700
1999	37,300	374,300	615,100	137,900	179,700	1,344,300

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Table 10.–Page 2 of 2.

Year	District <sup>a,b</sup>					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
2000	27,400	146,100	810,700	130,100	98,700	1,213,000
2001	19,700	460,400	1,470,200	263,000	150,200	2,363,500
2002	16,917	85,755	777,710	85,501	62,170	1,028,053
2003	143,897	576,510	1,408,060	117,650	99,500	2,345,617
2004	27,300	257,000	601,900	94,340	134,320	1,114,860
2005	160,000	473,400	512,350	257,500	188,600	1,591,850
2006	27,401	36,175	195,950	31,800	83,500	374,826
2007	62,464	291,800	565,800	113,000	184,000	1,217,064
2008	69,841	117,650	402,880	99,460	173,200	863,031
Chignik Management Area SEG, even years:					500,000 to 800,000	
Averages						
1988-07	50,874	289,377	875,324	154,530	213,805	1,583,909
1998-07	54,678	291,234	823,097	138,119	140,349	1,447,477
2003-07	84,212	326,977	656,812	122,858	137,984	1,328,843
Even Year Averages						
1988-06	32,652	172,403	871,726	114,004	161,119	1,351,904
1998-06	24,684	147,186	731,892	98,428	120,298	1,122,488
2003-06	23,873	126,310	525,187	70,547	93,330	839,246

<sup>a</sup> From 1984 to 2003 aerial survey escapement estimates were computed by area-under-the-curve methods using a 15.0 day average stream life (Johnson and Barrett 1988). Starting 2004, estimates were computed using peak counts (Witteveen et al. 2005).

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

Table 11.—Estimated chum salmon escapement and objectives in the Chignik Management Area, by district and year, 1970 through 2008.

Year	District <sup>a,b</sup>					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	21,000	23,400	126,000	49,700	13,000	233,100
1971	7,100	29,100	219,200	184,100	30,000	469,500
1972	3,300	14,200	107,400	59,000	11,500	195,400
1973	700	12,200	59,100	35,600	9,300	116,900
1974	2,100	18,100	76,300	39,400	12,500	148,400
1975	2,100	18,800	41,300	43,400	20,500	126,100
1976	2,400	17,800	122,300	55,000	8,900	206,400
1977	2,000	9,300	54,500	70,400	15,400	151,600
1978	2,100	13,800	55,800	27,300	5,300	104,300
1979	1,600	44,800	79,500	42,500	12,800	181,200
1980	300	34,200	107,000	56,500	29,100	227,100
1981	500	26,100	126,000	70,300	19,300	242,200
1982	1,400	49,400	145,400	35,400	23,600	255,200
1983	100	17,000	50,200	20,100	8,200	95,600
1984	300	35,400	214,700	73,800	46,000	370,200
1985	0	9,600	4,900	34,600	12,900	62,000
1986	0	31,000	8,500	5,300	7,700	52,500
1987	100	17,500	38,300	19,700	9,800	85,400
1988	15,300	55,800	221,900	27,400	41,400	361,800
1989	4,200	34,700	74,300	7,400	15,900	136,500
1990	1,500	28,000	139,700	28,800	55,800	253,800
1991	0	18,000	70,400	38,100	343,200	469,700
1992	100	173,100	306,900	53,300	40,300	573,700
1993	300	39,400	135,200	14,000	66,800	255,700
1994	1,500	102,600	129,200	23,000	126,000	382,300
1995	10,300	44,500	112,800	45,700	134,600	347,900
1996	16,400	45,100	130,500	44,500	132,000	368,500
1997	18,500	65,700	290,000	60,500	152,800	587,500
1998	4,500	32,000	97,700	30,600	214,500	379,300
1999	2,300	32,400	167,100	16,300	117,300	335,400
2000	100	22,700	216,000	12,700	51,900	303,400
2001	4,100	36,500	406,900	35,500	67,800	550,800
2002	67	11,615	174,850	17,082	32,020	235,634
2003	899	43,191	152,854	39,050	64,331	300,325
2004	376	30,310	277,240	3,100	38,492	349,518
2005	30,000	159,100	36,350	22,000	61,250	308,700
2006	1,099	3,450	53,940	6,000	29,000	93,489
2007	6,118	25,200	58,000	26,500	122,280	238,098
2008	17,624	17,850	57,120	21,240	83,425	197,259

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Table 11.–Page 2 of 2.

Year	District <sup>a,b</sup>					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
Chignik Management Area SEG:						57,400
Averages						
1988-07	5,883	50,168	162,592	27,577	95,384	341,603
1998-07	4,956	39,647	164,093	20,883	79,887	309,466
2003-07	7,698	52,250	115,677	19,330	63,071	258,026

<sup>a</sup> From 1984 to 2003 aerial survey escapement estimates were computed by area-under-the-curve methods using a 15.0 day average stream life (Johnson and Barrett 1988). Starting 2004, estimates were computed using peak counts (Witteveen et al. 2005).

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

Table 12.—Total commercial salmon harvests, including home pack and the department's test fishery harvests, from the Chignik Management Area by species and year, 1970 through 2008.

Year	Permits Making		Chignik Management Area Harvest					Total
	Deliveries	Landings	Chinook	Sockeye	Coho	Pink	Chum	
1970	80	2,343	1,226	1,325,734	15,348	1,157,172	437,252	2,936,732
1971	77	2,383	2,010	1,016,136	14,557	612,290	353,952	1,998,945
1972	80	1,626	464	378,218	19,615	72,161	78,298	548,756
1973	80	2,187	525	870,354	22,322	25,472	8,717	927,390
1974	94	2,286	255	662,905	12,245	69,515	34,312	779,232
1975	86	1,844	549	399,593	53,283	66,165	25,161	544,751
1976	77	2,407	2,290	1,163,728	35,167	395,287	81,403	1,677,875
1977	88	2,426	710	1,972,207	17,430	604,806	110,452	2,705,605
1978	95	3,005	1,603	1,576,283	20,212	985,114	120,889	2,704,101
1979	103	3,009	1,253	1,049,691	99,129	1,905,198	188,907	3,244,178
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	711,473
2005	97	1,669	3,408	1,152,133	6,956	194,045	8,821	1,365,363
2006	49	2,066	2,256	902,709	39,221	383,547	61,630	1,389,363
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
Averages								
1988-07	85	3,356	4,901	1,409,684	141,213	941,151	144,384	2,641,402
1998-07	69	2,559	2,811	1,320,267	74,658	735,388	85,767	2,219,028
2003-07	56	1,851	2,605	938,868	44,677	620,472	42,711	1,649,608

Table 13.—Annual Chignik Management Area Chinook salmon harvest, 1970 through 2008.

Year	Testfish		Commercial Catch		Home Pack		Total	
	Number	Pounds	Number	Pounds	Number	Pounds <sup>a</sup>	Number	Pounds
1970	ND	ND	1,226	28,507	ND	ND	1,226	28,507
1971	ND	ND	2,010	25,887	ND	ND	2,010	25,887
1972	ND	ND	464	8,091	ND	ND	464	8,091
1973	ND	ND	525	17,001	ND	ND	525	17,001
1974	ND	ND	255	5,997	ND	ND	255	5,997
1975	ND	ND	549	14,108	ND	ND	549	14,108
1976	ND	ND	2,290	29,229	ND	ND	2,290	29,229
1977	ND	ND	710	21,176	ND	ND	710	21,176
1978	ND	ND	1,603	42,439	ND	ND	1,603	42,439
1979	ND	ND	1,253	18,998	ND	ND	1,253	18,998
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	3,137	55,638	271	6,157	3,409	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
Averages								
1988-07	4	72	4,812	74,428	-	-	4,901	76,018
1998-07	5	94	2,671	41,729	135	2,330	2,811	44,152
2003-07	4	68	2,433	41,353	169	3,159	2,605	44,581

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

Table 14.–Chignik Management Area Chinook salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1970 through 2008.

Year	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	867	5	55	230	69	1,226
1971	656	23	134	266	931	2,010
1972	226	0	24	72	142	464
1973	520	0	5	0	0	525
1974	200	27	0	28	0	255
1975	542	7	0	0	0	549
1976	2,135	15	3	60	77	2,290
1977	692	12	0	1	5	710
1978	1,386	49	19	130	19	1,603
1979	856	101	6	181	109	1,253
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
Averages						
1988-07	2,379	1,142	225	898	259	4,901
1998-07	1,757	513	74	437	30	2,811
2003-07	2,149	233	31	191	1	2,605

Table 15.—Chignik Management Area Chinook salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2008.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
6/9	0	Closed	Closed	Closed	Closed	0
6/10	Closed	Closed	Closed	Closed	Closed	0
6/11	Closed	Closed	Closed	Closed	Closed	0
6/12	0	Closed	Closed	Closed	Closed	0
6/13	Closed	Closed	Closed	Closed	Closed	0
6/14	Closed	Closed	Closed	Closed	Closed	0
6/15	Closed	Closed	Closed	Closed	Closed	0
6/16	0	Closed	Closed	Closed	Closed	0
6/17	Closed	Closed	Closed	Closed	Closed	0
6/18	Closed	Closed	Closed	Closed	Closed	0
6/19	0	Closed	Closed	Closed	Closed	0
6/20	Closed	Closed	Closed	Closed	Closed	0
6/21	Closed	Closed	Closed	Closed	Closed	0
6/22	0	Closed	Closed	Closed	Closed	0
6/23	Closed	Closed	Closed	Closed	Closed	0
6/24	4	2	0	12	Closed	18
6/25	0	0	0	5	Closed	5
6/26	1	38	0	Closed	Closed	39
6/27	5		0	Closed	Closed	5
6/28	4	3	0	30	Closed	37
6/29	3	5	0	9	Closed	17
6/30	4	3	0	22	Closed	29
7/1	1	2	0	Closed	Closed	3
7/2	Closed	Closed	Closed	Closed	Closed	0
7/3	Closed	Closed	Closed	Closed	Closed	0
7/4	13	8	0	Closed	Closed	21
7/5	6	8	0	1	Closed	15
7/6	30	0	0	9	1	40
7/7	21	3	0	18	0	42
7/8	28	6	0	26	0	60
7/9	12	2	0	38	0	52
7/10	3	0	0	0	0	3
7/11	Closed	Closed	Closed	Closed	Closed	0
7/12	Closed	Closed	Closed	Closed	Closed	0
7/13	Closed	Closed	Closed	Closed	Closed	0
7/14	Closed	Closed	Closed	Closed	Closed	0
7/15	Closed	Closed	Closed	Closed	Closed	0
7/16	Closed	Closed	Closed	Closed	Closed	0
7/17	Closed	Closed	Closed	Closed	Closed	0
7/18	3	20	Closed	Closed	Closed	23
7/19	9	7	Closed	Closed	Closed	16
7/20	13	5	Closed	Closed	Closed	18
7/21	6	5	1	25	0	37
7/22	5	8	0	15	0	28
7/23	4	4	0	11	0	19

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Table 15.–Page 2 of 2.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
7/24	3	4	0	14	0	21
7/25	Closed	Closed	Closed	Closed	0	0
7/26	Closed	Closed	Closed	Closed	0	0
7/27	Closed	Closed	Closed	Closed	0	0
7/28	Closed	Closed	Closed	Closed	0	0
7/29	2	10	0	28	6	46
7/30	3	3	0	16	2	24
7/31	0	4	2	26	0	32
8/1	3	6	1	8	7	25
8/2	1	1	0	6	9	17
8/3	1	1	0	2	4	8
8/4	1	1	0	2	0	4
8/5	5	1	0	7	5	18
8/6	1	1	2	16	2	22
8/7	0	2	0	Closed	Closed	2
8/8	0	18	0	Closed	Closed	18
8/9	0	8	0	Closed	0	8
8/10	5	0	2	12	1	20
8/11	1	5	4	13	0	23
8/12	1	0	0	26	0	27
8/13	3	0	0	12	0	15
8/14	0	0	0	20	0	20
8/15	6	0	1	40	0	47
8/16	1	0	3	18	0	22
8/17	0	0	0	0	0	0
8/18	3	0	0	0	0	3
8/19	0	0	0	0	0	0
8/20	0	0	0	0	0	0
8/21	0	0	0	6	0	6
8/22	1	0	0	4	0	5
8/23	0	0	0	3	0	3
8/24	0	0	0	0	0	0
8/25	0	1	0	0	0	1
8/26	0	0	0	3	0	3
8/27	0	0	0	0	0	0
8/28	2	0	0	0	0	2
8/29	0	0	0	0	0	0
8/30	0	0	0	0	0	0
8/31	0	0	0	0	0	0
9/1	0	0	0	0	0	0
9/2	0	0	0	0	0	0
9/3	1	0	0	0	0	1
9/4-9/26	0	0	0	0	0	0
<b>Total</b>	<b>219</b>	<b>195</b>	<b>16</b>	<b>503</b>	<b>37</b>	<b>970</b>

Table 16.—Total harvest of sockeye salmon considered by regulation to be Chignik bound in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries, 1970 through 2008.

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

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Year	Testfish		Commercial Catch		Home Pack		Total CMA Harvest		Cape Igvak <sup>a</sup>		SEDM <sup>b</sup>		Total Chignik Bound	
	Number	Pounds	Number	Pounds	Number	Pounds <sup>c</sup>	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
2001 <sup>d</sup>	14,011	98,197	1,497,359	10,972,234	217	1,590	1,511,587	11,072,021	215,214	1,287,154	51,141	368,970	1,777,942	12,728,145
2002	9,101	61,656	1,040,081	7,176,261	1,371	9,460	1,050,553	7,247,377	136,488	727,894	63,026	502,353	1,250,067	8,477,624
2003	5,582	36,334	1,092,304	7,137,591	2,411	15,755	1,100,297	7,189,680	121,887	599,342	70,044	466,153	1,292,228	8,255,175
2004	5,919	38,317	697,043	4,460,437	1,690	10,998	704,652	4,509,752	160,665	781,265	55,123	355,703	920,440	5,291,017
2005	7,076	43,988	1,143,693	7,468,609	1,364	8,702	1,152,133	7,521,299	274,328	1,681,630	170,662	1,088,207	1,597,123	10,291,136
2006	6,641	42,420	895,801	5,804,939	267	1,625	902,709	5,848,984	41,834	266,483	62,010	398,724	1,006,553	6,514,191
2007	5,152	38,112	829,110	5,769,736	285	1,346	834,547	5,809,194	52,527	325,619	0	0	887,074	6,134,813
2008	5,166	35,271	682,104	4,734,436	0	0	687,270	4,769,707	0	0	0	0	687,270	4,769,707
Averages														
1988-07	7,929	52,837	1,401,324	9,463,570	-	-	1,409,684	9,519,195	168,007	965,470	84,531	561,502	1,662,221	11,028,381
1998-07	8,345	55,607	1,311,132	8,926,709	790	5,128	1,320,267	8,987,444	173,914	988,161	81,594	541,266	1,575,775	10,481,300
2003-07	6,074	39,834	931,590	6,128,262	1,203	7,685	938,868	6,175,782	130,248	730,868	71,568	461,757	1,140,684	7,297,266

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

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

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

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

Table 17.—Total annual Chignik Management Area sockeye salmon harvest (including home pack and the department’s test fishery catches), by district, 1970 through 2008.

Year	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	1,122,993	10,252	187,210	3,751	1,528	1,325,734
1971	885,632	41,958	81,155	6,403	988	1,016,136
1972	354,912	2,429	15,985	4,734	158	378,218
1973	845,079	8,039	17,234	2	0	870,354
1974	539,196	120,412	199	3,098	0	662,905
1975	387,128	12,448	0	17	0	399,593
1976	1,112,533	48,327	1,254	425	1,189	1,163,728
1977	1,851,733	119,484	0	909	81	1,972,207
1978	1,474,673	89,826	7,161	4,482	141	1,576,283
1979	909,056	104,892	12,558	20,319	2,866	1,049,691
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
Averages						
1988-07	996,486	300,137	40,929	46,028	26,104	1,409,684
1998-07	1,039,743	207,645	24,776	43,399	4,705	1,320,267
2003-07	803,196	78,339	6,941	49,211	1,181	938,868

Table 18.—Chignik Management Area sockeye salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2008.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
6/9	212	Closed	Closed	Closed	Closed	212
6/10	Closed	Closed	Closed	Closed	Closed	0
6/11	Closed	Closed	Closed	Closed	Closed	0
6/12	340	Closed	Closed	Closed	Closed	340
6/13	Closed	Closed	Closed	Closed	Closed	0
6/14	Closed	Closed	Closed	Closed	Closed	0
6/15	Closed	Closed	Closed	Closed	Closed	0
6/16	732	Closed	Closed	Closed	Closed	732
6/17	Closed	Closed	Closed	Closed	Closed	0
6/18	Closed	Closed	Closed	Closed	Closed	0
6/19	1,606	Closed	Closed	Closed	Closed	1,606
6/20	Closed	Closed	Closed	Closed	Closed	0
6/21	Closed	Closed	Closed	Closed	Closed	0
6/22	2,276	Closed	Closed	Closed	Closed	2,276
6/23	Closed	Closed	Closed	Closed	Closed	0
6/24	38,762	6,397	0	2,456	Closed	47,615
6/25	11,943	953	0	1,037	Closed	13,933
6/26	25,022	15,891	0	Closed	Closed	40,913
6/27	34,410	445	0	Closed	Closed	34,855
6/28	17,789	1,668	560	7,027	Closed	27,044
6/29	16,610	2,986	0	3,571	Closed	23,167
6/30	13,680	2,566	0	6,330	Closed	22,576
7/1	6,741	740	0	Closed	Closed	7,481
7/2	Closed	Closed	Closed	Closed	Closed	0
7/3	Closed	Closed	Closed	Closed	Closed	0
7/4	22,646	8,094	0	Closed	Closed	30,740
7/5	20,650	8,002	0	1,070	Closed	29,722
7/6	15,519	1,325	0	3,764	1	20,609
7/7	19,886	973	0	6,765	0	27,624
7/8	12,436	3,418	0	2,027	0	17,881
7/9	8,037	669	0	543	0	9,249
7/10	5,260	406	0	0	0	5,666
7/11	Closed	Closed	Closed	Closed	Closed	0
7/12	Closed	Closed	Closed	Closed	Closed	0
7/13	Closed	Closed	Closed	Closed	Closed	0
7/14	Closed	Closed	Closed	Closed	Closed	0
7/15	Closed	Closed	Closed	Closed	Closed	0
7/16	Closed	Closed	Closed	Closed	Closed	0
7/17	Closed	Closed	Closed	Closed	Closed	0
7/18	4,143	1,789	Closed	Closed	Closed	5,932
7/19	11,875	1,604	Closed	Closed	Closed	13,479
7/20	7,910	1,444	Closed	Closed	Closed	9,354
7/21	8,807	2,587	84	1,996	0	13,474
7/22	11,729	1,429	0	904	0	14,062
7/23	11,800	1,814	0	2,706	0	16,320

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Table 18.–Page 2 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
7/24	9,189	2,071	0	2,243	0	13,503
7/25	Closed	Closed	Closed	Closed	0	0
7/26	Closed	Closed	Closed	Closed	0	0
7/27	Closed	Closed	Closed	Closed	0	0
7/28	Closed	Closed	Closed	Closed	0	0
7/29	8,106	1,802	95	4,614	268	14,885
7/30	7,018	853	0	1,042	128	9,041
7/31	7,465	1,132	4	1,788	104	10,493
8/1	6,890	428	31	973	428	8,750
8/2	4,305	928	10	1,067	714	7,024
8/3	4,479	1,209	0	2,651	1,092	9,431
8/4	6,016	1,166	1	561	1,207	8,951
8/5	8,139	950	5	1,311	1,322	11,727
8/6	7,142	1,042	311	1,516	1,167	11,178
8/7	3,989	738	0	Closed	Closed	4,727
8/8	2,710	1,407	278	Closed	Closed	4,395
8/9	2,132	566	4	Closed	Closed	2,702
8/10	3,100	580	24	1,629	166	5,499
8/11	1,976	667	49	708	0	3,400
8/12	3,189	319	9	906	0	4,423
8/13	3,237	0	5	948	0	4,190
8/14	5,687	141	6	957	0	6,791
8/15	6,033	0	206	1,770	0	8,009
8/16	5,081	0	597	858	0	6,536
8/17	4,600	0	0	37	0	4,637
8/18	5,619	0	0	0	0	5,619
8/19	4,455	0	0	89	0	4,544
8/20	5,782	97	0	1,081	0	6,960
8/21	7,830	414	0	529	0	8,773
8/22	5,479	0	0	28	0	5,507
8/23	4,294	146	0	162	0	4,602
8/24	4,428	70	0	114	0	4,612
8/25	2,157	594	0	0	0	2,751
8/26	3,766	409	0	336	0	4,511
8/27	5,387	50	0	125	0	5,562
8/28	5,213	132	0	0	0	5,345
8/29	3,101	0	0	18	0	3,119
8/30	4,236	0	0	0	0	4,236
8/31	1,884	0	0	0	0	1,884
9/1	2,373	0	0	0	0	2,373
9/2	2,863	0	0	0	0	2,863
9/3	2,942	0	0	0	0	2,942
9/4	3,392	0	0	0	0	3,392
9/5	2,124	0	0	0	0	2,124
9/6	716	0	0	0	0	716
9/7	1,099	0	0	0	0	1,099

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Table 18.–Page 3 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
9/8	510	0	0	0	0	510
9/9	1,902	0	0	0	0	1,902
9/10	1,227	0	0	0	0	1,227
9/11	1,748	0	0	0	0	1,748
9/12	762	0	0	0	0	762
9/13	Closed	Closed	Closed	Closed	Closed	0
9/14	Closed	Closed	Closed	Closed	Closed	0
9/15	192	0	Closed	Closed	Closed	192
9/16	241	0	Closed	Closed	Closed	241
<b>Total</b>	<b>527,026</b>	<b>83,111</b>	<b>2,279</b>	<b>68,257</b>	<b>6,597</b>	<b>687,270</b>

Table 19.—Harvest of sockeye salmon considered by regulation to be Chignik-bound in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries from June 1 to July 25, 1978 through 2008.

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

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- <sup>a</sup> Through 2001, the Cape Igvak and Southeastern District Mainland figures represent 80% of the total sockeye salmon catch for those areas through July 25, based on the regulations in effect during those years. In 2002 the BOF increased the percentage of sockeye salmon harvest considered Chignik bound from 80% to 90% in the Cape Igvak fishery. The figures reported in this table are the portion of the catches considered Chignik-bound. These figures do not include Chignik test fishery harvests or fish retained for home pack as they are not included in the allocation scheme.
- <sup>b</sup> Beginning in 1978 the Cape Igvak Salmon Management Plan allocated up to 15% of the total catch of Chignik-bound sockeye salmon to the Cape Igvak fishery.
- <sup>c</sup> Beginning in 1985 the Southeastern District Mainland was allowed an allocation of 6.2% of the total harvest of Chignik bound sockeye salmon through July 25. Certain areas (which changed frequently) were excluded from the allocation and managed for local (Orzinski Lake) stocks (see regulations from the individual years). After July 25 the entire Southeast District Mainland was managed based on local stock abundance. The allocation level changed to 6.0% beginning in 1988. Beginning in 1992, the allocation of Chignik bound sockeye to the Southeastern District Mainland fishery was increased to 7.0%. Prior to the 1996 season, the BOF decreased the allocation from 7.0% to 6.0%. Beginning in 2007, the percent sockeye salmon harvested in the SEDM was considered independent of the Igvak fishery and based solely on 7.6% of the Chignik Area harvest.
- <sup>d</sup> Includes a forgone harvest of 278,305 sockeye salmon during a Chignik area strike (June 23 to July 4).
- <sup>e</sup> Includes a forgone harvest of 208,921 sockeye salmon during a Chignik area strike (June 2 to June 25).
- <sup>f</sup> Includes a forgone harvest of 52,131 sockeye salmon during a Chignik area strike (June 16 to June 29).
- <sup>g</sup> Includes a forgone harvest of 389,887 sockeye salmon in Chignik during a Chignik area strike (June 16 to 29), and foregone harvest of 27,896 sockeye salmon in the SEDM during a strike on the South Peninsula (June 14 to July 2).
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Table 20.—Chignik sockeye salmon escapement, total harvest considered Chignik bound, and total run, 1970 through 2008.

Year	Early Run			Late Run			Total Run <sup>a,b,c</sup>		
	Esc.	Harvest	Run	Esc.	Harvest	Run	Esc.	Harvest	Run
1970	536,257	1,566,065	2,102,322	119,952	262,244	382,196	656,209	1,828,309	2,484,518
1971	671,668	555,832	1,227,500	232,501	709,190	941,691	904,169	1,265,022	2,169,191
1972	326,320	43,220	369,540	231,270	386,615	617,885	557,590	429,835	987,425
1973	533,047	610,488	1,143,535	249,144	355,195	604,339	782,191	965,683	1,747,874
1974	351,701	204,722	556,423	326,245	648,283	974,528	677,946	853,005	1,530,951
1975	308,914	7,873	316,787	268,734	417,560	686,294	577,648	425,433	1,003,081
1976	551,254	599,341	1,150,595	279,509	727,043	1,006,552	830,763	1,326,384	2,157,147
1977	482,247	534,198	1,016,445	251,753	1,602,363	1,854,116	734,000	2,136,561	2,870,561
1978	458,660	940,188	1,398,848	223,887	885,173	1,109,060	682,547	1,825,361	2,507,908
1979	385,694	186,537	572,231	352,122	933,788	1,285,910	737,816	1,120,325	1,858,141
1980	311,332	73,742	385,074	352,729	849,980	1,202,709	664,061	923,722	1,587,783
1981	438,540	800,364	1,238,904	392,909	1,444,030	1,836,939	831,449	2,244,394	3,075,843
1982	616,117	1,324,396	1,940,513	221,601	426,835	648,436	837,718	1,751,231	2,588,949
1983	426,177	1,128,246	1,554,423	409,458	1,241,369	1,650,827	835,635	2,369,615	3,205,250
1984	597,712	2,919,984	3,517,696	267,862	613,299	881,161	865,574	3,533,283	4,398,857
1985	376,576	654,431	1,031,007	369,262	442,119	811,381	745,838	1,096,550	1,842,388
1986	566,088	1,364,295	1,930,383	207,231	587,562	794,793	773,319	1,951,857	2,725,176
1987	589,291	1,947,088	2,536,379	214,452	420,142	634,594	803,743	2,367,230	3,170,973
1988	420,577	271,377	691,954	255,180	554,304	809,484	675,757	825,681	1,501,438
1989	384,004	234,237	618,241	557,171	929,535	1,486,706	941,175	1,163,772	2,104,947
1990	434,543	582,520	1,017,063	335,867	1,735,901	2,071,768	770,410	2,318,421	3,088,831
1991	657,511	1,711,549	2,384,420	382,587	661,025	1,028,252	1,040,098	2,372,574	3,412,672
1992	360,681	744,417	1,105,098	405,922	777,311	1,183,233	766,603	1,521,728	2,288,331
1993	364,261	926,892	1,291,153	333,116	1,199,122	1,532,238	697,377	2,126,014	2,823,391
1994	769,462	1,595,176	2,364,638	197,447	416,377	613,824	966,909	2,011,553	2,978,462
1995	366,163	666,799	1,032,962	373,757	1,315,862	1,689,619	739,920	1,982,661	2,722,581
1996	464,461	1,688,264	2,152,725	284,676	705,657	990,333	749,137	2,393,921	3,143,058
1997	396,667	234,824	631,491	378,951	535,523	914,474	775,618	770,347	1,545,965
1998	410,659	313,158	723,817	290,469	816,987	1,107,456	701,128	1,130,145	1,831,273
1999	457,429	2,022,272	2,479,701	258,537	1,723,915	1,982,452	715,966	3,746,187	4,462,153
2000	536,141	1,574,391	2,110,532	269,084	575,597	844,681	805,225	2,149,988	2,955,213
2001	744,013	563,539	1,307,552	392,905	1,214,403	1,607,308	1,136,918	1,777,942	2,914,860
2002	380,701	684,728	1,065,428	343,616	565,339	908,955	724,317	1,250,067	1,974,383
2003	350,004	640,084	990,088	334,119	652,144	986,263	684,123	1,292,228	1,976,351
2004	363,800	727,975	1,091,775	214,459	192,465	406,924	578,259	920,440	1,498,700
2005	355,091	1,109,881	1,464,972	225,366	487,242	712,608	580,457	1,597,123	2,177,580
2006	366,497	436,028	802,525	368,996	570,525	939,521	735,493	1,006,553	1,742,046
2007	361,091	267,805	628,896	293,883	619,269	913,152	654,974	887,074	1,542,048
2008	377,579	253,490	631,069	328,479	433,780	762,259	706,058	687,270	1,393,328
Averages									
1988-07	447,188	849,796	1,297,752	324,805	812,425	1,136,463	771,993	1,662,221	2,434,214
1998-07	432,543	833,986	1,266,529	299,143	741,789	1,040,932	731,686	1,575,775	2,307,461
2003-07	359,297	636,355	995,651	287,365	504,329	791,694	646,661	1,140,684	1,787,345

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

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

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

Table 21.—Chignik sockeye salmon forecasts and actual runs, by run and year, 1993 through 2008.

Year	Early Run			Late Run			Total Run		
	Forecast	Actual	% Error	Forecast	Actual	% Error	Forecast	Actual	% Error
1994	1.80	2.36	-23.88%	1.30	0.61	111.79%	3.10	2.98	4.08
1995	1.90	1.03	83.88%	0.90	1.69	-46.72%	2.80	2.72	2.84
1996	1.40	2.15	-34.97%	1.60	0.99	61.61%	3.00	3.14	-4.55
1997	1.00	0.63	58.44%	1.60	0.91	75.03%	2.60	1.55	68.25
1998	0.90	0.72	24.36%	1.10	1.11	-0.66%	2.00	1.83	9.23
1999	1.05	2.48	-57.66%	1.29	1.98	-34.93%	2.34	4.46	-47.56
2000	3.90	2.11	84.66%	1.09	0.84	29.04%	4.99	2.96	68.77
2001	1.00	1.31	-23.49%	0.91	1.61	-43.38%	1.91	2.91	-34.46
2002	1.03	1.06	-3.24%	1.09	0.91	19.85%	2.12	1.97	7.40
2003	1.64	0.99	65.62%	1.19	1.00	19.00%	2.83	1.99	42.20
2004	1.26	1.09	15.60%	1.08	0.41	163.41%	2.34	1.50	56.00
2005	1.84	1.46	26.03%	0.55	0.71	-22.54%	2.39	2.17	10.14
2006	1.21	0.78	55.13%	0.28	0.96	-70.83%	1.49	1.74	-14.37
2007	1.02	0.60	71.14%	0.90	0.95	-5.24%	1.92	1.55	24.21
2008	1.07	0.63	69.57%	0.65	0.76	-14.96%	1.72	1.39	23.33
Averages									
1998-07	1.28	0.91	47.49%	0.69	0.76	9.97%	1.97	1.67	19.86
2003-07	1.50	1.25	30.34%	0.90	1.01	3.94%	2.40	2.26	13.57

Table 22.—Chignik Management Area coho salmon harvest, by year, 1970 through 2008.

Year	Testfish		Commercial Catch		Home Pack		Total	
	Number	Pounds	Number	Pounds	Number	Pounds <sup>a</sup>	Number	Pounds
1970	ND	ND	15,348	103,879	ND	ND	15,348	103,879
1971	ND	ND	14,557	96,832	ND	ND	14,557	96,832
1972	ND	ND	19,615	138,345	ND	ND	19,615	138,345
1973	ND	ND	22,322	172,190	ND	ND	22,322	172,190
1974	ND	ND	12,245	97,037	ND	ND	12,245	97,037
1975	ND	ND	53,283	467,912	ND	ND	53,283	467,912
1976	ND	ND	35,167	294,954	ND	ND	35,167	294,954
1977	ND	ND	17,430	156,418	ND	ND	17,430	156,418
1978	ND	ND	20,212	158,270	ND	ND	20,212	158,270
1979	ND	ND	99,129	725,035	ND	ND	99,129	725,035
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
Averages								
1988-07	27	154	141,104	1,070,311	117	863	141,213	1,071,070
1998-07	4	29	74,583	571,844	71	475	74,658	572,396
2003-07	9	57	44,607	347,766	62	395	44,677	348,297

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

Table 23.—Chignik Management Area coho salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1970 through 2008.

Year	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	4,578	62	399	9,745	564	15,348
1971	10,928	62	301	2,297	969	14,557
1972	17,692	2	160	1,579	182	19,615
1973	22,304	6	12	0	0	22,322
1974	11,056	414	0	775	0	12,245
1975	52,407	260	0	0	616	53,283
1976	34,426	173	109	32	427	35,167
1977	16,810	189	7	378	46	17,430
1978	14,467	24	21	3,848	1,852	20,212
1979	52,966	3,556	3,869	31,300	7,438	99,129
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
Averages						
1988-07	37,350	20,828	1,398	61,691	19,945	141,213
1998-07	13,350	15,386	961	42,201	2,760	74,658
2003-07	11,439	4,672	87	27,558	922	44,677

Table 24.–Chignik Management Area coho salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2008.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
6/9	0	Closed	Closed	Closed	Closed	0
6/10	Closed	Closed	Closed	Closed	Closed	0
6/11	Closed	Closed	Closed	Closed	Closed	0
6/12	0	Closed	Closed	Closed	Closed	0
6/13	Closed	Closed	Closed	Closed	Closed	0
6/14	Closed	Closed	Closed	Closed	Closed	0
6/15	Closed	Closed	Closed	Closed	Closed	0
6/16	0	Closed	Closed	Closed	Closed	0
6/17	Closed	Closed	Closed	Closed	Closed	0
6/18	Closed	Closed	Closed	Closed	Closed	0
6/19	0	Closed	Closed	Closed	Closed	0
6/20	Closed	Closed	Closed	Closed	Closed	0
6/21	Closed	Closed	Closed	Closed	Closed	0
6/22	0	Closed	Closed	Closed	Closed	0
6/23	Closed	Closed	Closed	Closed	Closed	0
6/24	0	0	0	0	Closed	0
6/25	0	0	0	0	Closed	0
6/26	0	1	0	Closed	Closed	1
6/27	0	0	0	Closed	Closed	0
6/28	0	0	1	16	Closed	17
6/29	1	0	0	13	Closed	14
6/30	0	13	0	33	Closed	46
7/1	0	0	0	Closed	Closed	0
7/2	Closed	Closed	Closed	Closed	Closed	0
7/3	Closed	Closed	Closed	Closed	Closed	0
7/4	19	81	0	Closed	Closed	100
7/5	0	3	0	43	Closed	46
7/6	0	0	0	306	0	306
7/7	2	13	0	682	0	697
7/8	2	80	0	1,037	0	1,119
7/9	3	22	0	421	0	446
7/10	25	25	0	0	0	50
7/11	Closed	Closed	Closed	Closed	Closed	0
7/12	Closed	Closed	Closed	Closed	Closed	0
7/13	Closed	Closed	Closed	Closed	Closed	0
7/14	Closed	Closed	Closed	Closed	Closed	0
7/15	Closed	Closed	Closed	Closed	Closed	0
7/16	Closed	Closed	Closed	Closed	Closed	0
7/17	Closed	Closed	Closed	Closed	Closed	0
7/18	6	204	Closed	Closed	Closed	210
7/19	3	211	Closed	Closed	Closed	214
7/20	121	32	Closed	Closed	Closed	153
7/21	10	162	556	12,241	0	12,969
7/22	11	31	0	5,390	0	5,432
7/23	0	31	0	8,210	0	8,241

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Table 24.–Page 2 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
7/24	1	172	0	7,385	0	7,558
7/25	Closed	Closed	Closed	Closed	Closed	0
7/26	Closed	Closed	Closed	Closed	Closed	0
7/27	Closed	Closed	Closed	Closed	Closed	0
7/28	Closed	Closed	Closed	Closed	Closed	0
7/29	53	220	17	9,172	316	9,778
7/30	59	74	0	2,946	533	3,612
7/31	35	222	5	4,588	571	5,421
8/1	304	39	5	2,109	453	2,910
8/2	10	207	0	2,224	1,079	3,520
8/3	437	128	0	3,452	864	4,881
8/4	252	116	0	526	1,073	1,967
8/5	488	180	0	3,146	1,605	5,419
8/6	292	188	110	4,575	2,537	7,702
8/7	14	674	0	Closed	Closed	688
8/8	63	792	84	Closed	Closed	939
8/9	34	600	0	Closed	Closed	634
8/10	435	190	18	3,080	249	3,972
8/11	142	523	72	1,284	0	2,021
8/12	137	343	11	2,287	0	2,778
8/13	51	0	22	2,942	0	3,015
8/14	206	263	0	2,088	0	2,557
8/15	187	0	51	4,450	0	4,688
8/16	91	0	97	2,732	0	2,920
8/17	51	0	0	170	0	221
8/18	84	0	0	0	0	84
8/19	88	0	0	552	0	640
8/20	112	21	0	1,770	4	1,907
8/21	741	107	0	3,226	0	4,074
8/22	451	0	3	242	0	696
8/23	380	609	0	1,323	0	2,312
8/24	738	114	0	658	0	1,510
8/25	466	274	0	0	0	740
8/26	831	113	0	1,622	0	2,566
8/27	1,103	559	0	170	0	1,832
8/28	1,481	10	0	0	0	1,491
8/29	1,107	0	0	42	0	1,149
8/30	1,457	0	0	0	0	1,457
8/31	1,766	0	0	0	0	1,766
9/1	1,411	0	0	0	0	1,411
9/2	1,611	0	0	0	0	1,611
9/3	2,955	0	0	0	0	2,955
9/4	4,244	0	0	0	0	4,244
9/5	4,361	0	0	0	0	4,361
9/6	872	0	0	0	0	872
9/7	3,114	0	0	0	0	3,114

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Table 24.–Page 3 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
9/8	815	0	0	0	0	815
9/9	4,228	0	0	0	0	4,228
9/10	2,806	0	0	0	0	2,806
9/11	2,862	0	0	0	0	2,862
9/12	1,886	0	0	0	0	1,886
9/13	Closed	Closed	Closed	Closed	Closed	0
9/14	Closed	Closed	Closed	Closed	Closed	0
9/15	251	0	Closed	Closed	Closed	251
9/16	634	0	Closed	Closed	Closed	634
<b>Total</b>	<b>46,400</b>	<b>7,647</b>	<b>1,052</b>	<b>97,153</b>	<b>9,284</b>	<b>161,536</b>

Table 25.—Chignik Management Area pink salmon harvest, by year, 1970 through 2008.

Year	Testfish		Commercial Catch		Home Pack		Total	
	Number	Pounds	Number	Pounds	Number	Pounds <sup>a</sup>	Number	Pounds
1970	ND	ND	1,157,172	4,104,927	ND	ND	1,157,172	4,104,927
1971	ND	ND	612,290	2,291,832	ND	ND	612,290	2,291,832
1972	ND	ND	72,161	278,778	ND	ND	72,161	278,778
1973	ND	ND	25,444	104,457	ND	ND	25,444	104,457
1974	ND	ND	69,515	290,712	ND	ND	69,515	290,712
1975	ND	ND	66,165	260,631	ND	ND	66,165	260,631
1976	ND	ND	395,287	1,749,923	ND	ND	395,287	1,749,923
1977	ND	ND	604,806	2,435,862	ND	ND	604,806	2,435,862
1978	ND	ND	985,114	3,454,877	ND	ND	985,114	3,454,877
1979	ND	ND	1,905,198	7,154,954	ND	ND	1,905,198	7,154,954
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
Averages								
1988-07	263	893	940,594	3,168,744	455	1,367	941,152	3,170,525
1998-07	64	249	735,261	2,426,064	65	242	735,391	2,426,555
2003-07	116	443	620,233	2,272,396	128	479	620,477	2,273,318

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

Table 26.—Chignik Management Area chum salmon harvest (including home pack and the department’s test fishery catches), by district and year, 1970 through 2008.

Year	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	1,660	28,628	241,108	139,551	26,305	437,252
1971	19,449	13,723	102,344	177,534	40,902	353,952
1972	18,178	1,566	27,723	18,535	12,296	78,298
1973	7,254	229	1,218	16	0	8,717
1974	17,317	13,516	255	3,224	0	34,312
1975	21,137	3,225	0	799	0	25,161
1976	19,237	3,358	10,020	33,051	15,737	81,403
1977	8,621	8,888	1,507	88,027	3,409	110,452
1978	15,020	10,317	17,451	45,991	32,110	120,889
1979	32,176	11,427	36,090	82,326	26,888	188,907
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
<b>Averages</b>						
1988-07	9,165	47,316	16,028	50,827	21,048	144,384
1998-07	6,327	32,505	8,466	32,812	5,657	85,767
2003-07	3,978	9,138	1,736	27,395	463	42,711

Table 27.--Chignik Management Area pink salmon harvest (including home pack and the department's test fishery catches), by district and day, 2008.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
6/9	0	Closed	Closed	Closed	Closed	0
6/10	Closed	Closed	Closed	Closed	Closed	0
6/11	Closed	Closed	Closed	Closed	Closed	0
6/12	0	Closed	Closed	Closed	Closed	0
6/13	Closed	Closed	Closed	Closed	Closed	0
6/14	Closed	Closed	Closed	Closed	Closed	0
6/15	Closed	Closed	Closed	Closed	Closed	0
6/16	0	Closed	Closed	Closed	Closed	0
6/17	Closed	Closed	Closed	Closed	Closed	0
6/18	Closed	Closed	Closed	Closed	Closed	0
6/19	0	Closed	Closed	Closed	Closed	0
6/20	Closed	Closed	Closed	Closed	Closed	0
6/21	Closed	Closed	Closed	Closed	Closed	0
6/22	0	Closed	Closed	Closed	Closed	0
6/23	Closed	Closed	Closed	Closed	Closed	0
6/24	0	1,682	0	8,660	Closed	10,342
6/25	1	150	0	472	Closed	623
6/26	4	6,437	0	Closed	Closed	6,441
6/27	2	48	0	Closed	Closed	50
6/28	2	542	260	10,637	Closed	11,441
6/29	0	529	0	3,861	Closed	4,390
6/30	0	900	0	8,225	Closed	9,125
7/1	18	131	0	Closed	Closed	149
7/2	Closed	Closed	Closed	Closed	Closed	0
7/3	Closed	Closed	Closed	Closed	Closed	0
7/4	58	1,088	0	Closed	Closed	1,146
7/5	107	1,223	0	1,435	Closed	2,765
7/6	127	125	0	11,261	152	11,665
7/7	212	517	0	16,101	0	16,830
7/8	163	4,592	0	6,754	0	11,509
7/9	354	306	0	3,124	0	3,784
7/10	707	450	0	0	0	1,157
7/11	Closed	Closed	Closed	Closed	Closed	0
7/12	Closed	Closed	Closed	Closed	Closed	0
7/13	Closed	Closed	Closed	Closed	Closed	0
7/14	Closed	Closed	Closed	Closed	Closed	0
7/15	Closed	Closed	Closed	Closed	Closed	0
7/16	Closed	Closed	Closed	Closed	Closed	0
7/17	Closed	Closed	Closed	Closed	Closed	0
7/18	1,474	18,046	Closed	Closed	Closed	19,520
7/19	4,736	21,046	Closed	Closed	Closed	25,782
7/20	6,066	28,518	Closed	Closed	Closed	34,584
7/21	2,907	40,736	2,396	51,526	13,898	111,463
7/22	6,347	11,782	0	23,900	0	42,029
7/23	6,223	7,168	0	71,346	23,730	108,467

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Table 27.—Page 2 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
7/24	4,935	17,930	0	48,615	0	
7/25	Closed	Closed	Closed	Closed	Closed	0
7/26	Closed	Closed	Closed	Closed	Closed	0
7/27	Closed	Closed	Closed	Closed	Closed	0
7/28	Closed	Closed	Closed	Closed	Closed	0
7/29	8,712	13,738	10,268	107,201	34,939	174,858
7/30	7,941	7,561	18,730	33,245	6,811	74,288
7/31	9,825	12,612	41,408	86,099	8,206	158,150
8/1	17,854	5,565	47,083	35,250	31,428	137,180
8/2	5,850	11,022	57,949	67,680	24,950	167,451
8/3	14,498	7,669	3,025	70,206	52,113	147,511
8/4	14,249	10,826	24,809	16,223	19,735	85,842
8/5	19,741	7,732	29,251	46,312	48,481	151,517
8/6	10,583	11,662	28,149	67,242	28,265	145,901
8/7	6,791	17,981	13,500	Closed	Closed	38,272
8/8	6,942	31,580	26,134	Closed	Closed	64,656
8/9	5,037	21,047	15,272	Closed	Closed	41,356
8/10	21,952	6,004	10,294	80,177	4,234	122,661
8/11	7,915	16,601	20,911	40,645	4,920	90,992
8/12	6,156	13,219	10,414	31,828	0	61,617
8/13	3,382	0	18,926	21,956	0	44,264
8/14	4,135	1,627	16,938	22,935	0	45,635
8/15	4,677	0	9,566	30,220	0	44,463
8/16	5,882	0	965	19,468	0	26,315
8/17	3,667	0	0	2,090	0	5,757
8/18	2,734	0	0	0	0	2,734
8/19	1,506	0	0	652	0	2,158
8/20	1,247	6,747	0	7,817	6,688	22,499
8/21	1,955	311	1,956	4,368	664	9,254
8/22	837	0	8,316	454	0	9,607
8/23	659	937	0	1,802	0	3,398
8/24	501	135	0	769	0	1,405
8/25	266	389	0	0	0	655
8/26	470	91	0	1,505	0	2,066
8/27	629	269	0	384	0	1,282
8/28	628	27	0	0	0	655
8/29	312	0	0	37	0	349
8/30	205	0	0	0	0	205
8/31	107	0	0	0	0	107
9/1	65	0	0	0	0	65
9/2	34	0	0	0	0	34
9/3	11	0	0	0	0	11
9/4	24	0	0	0	0	24
9/5	22	0	0	0	0	22
9/6	0	0	0	0	0	0
9/7	0	0	0	0	0	0

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Table 27.–Page 3 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
9/8	0	0	0	0	0	0
9/9	0	0	0	0	0	0
9/10	0	0	0	0	0	0
9/11	0	0	0	0	0	0
9/12	0	0	0	0	0	0
9/13	Closed	Closed	Closed	Closed	Closed	0
9/14	Closed	Closed	Closed	Closed	Closed	0
9/15	0	0	Closed	Closed	Closed	0
9/16	0	0	Closed	Closed	Closed	0
<b>Total</b>	<b>232,444</b>	<b>369,298</b>	<b>416,520</b>	<b>1,062,482</b>	<b>309,214</b>	<b>2,389,958</b>

Table 28.—Chignik Management Area chum salmon harvest, by year, 1970 through 2008.

Year	Testfish		Commercial Catch		Home Pack		Total	
	Number	Pounds	Number	Pounds	Number	Pounds <sup>a</sup>	Number	Pounds
1970	ND	ND	437,252	3,004,113	ND	ND	437,252	3,004,113
1971	ND	ND	353,952	2,420,446	ND	ND	353,952	2,420,446
1972	ND	ND	78,298	603,726	ND	ND	78,298	603,726
1973	ND	ND	8,701	67,812	ND	ND	8,701	67,812
1974	ND	ND	34,312	246,288	ND	ND	34,312	246,288
1975	ND	ND	25,161	176,046	ND	ND	25,161	176,046
1976	ND	ND	81,403	678,545	ND	ND	81,403	678,545
1977	ND	ND	110,452	937,365	ND	ND	110,452	937,365
1978	ND	ND	120,889	984,141	ND	ND	120,889	984,141
1979	ND	ND	188,907	1,378,938	ND	ND	188,907	1,378,938
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	380,949	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	2,380	7,589	0	0	2,380	7,589
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
Averages								
1988-07	69	494	143,333	1,051,707	1,654	12,916	144,478	1,060,597
1998-07	19	174	85,895	664,959	40	298	85,954	665,431
2003-07	28	282	43,035	323,586	23	167	43,086	324,034

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

Table 29.—Chignik Management Area chum salmon harvest (including home pack and the department's test fishery catches), by district and year, 1970 through 2008.

Year	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
1970	1,660	28,628	241,108	139,551	26,305	437,252
1971	19,449	13,723	102,344	177,534	40,902	353,952
1972	18,178	1,566	27,723	18,535	12,296	78,298
1973	7,254	229	1,218	16	0	8,717
1974	17,317	13,516	255	3,224	0	34,312
1975	21,137	3,225	0	799	0	25,161
1976	19,237	3,358	10,020	33,051	15,737	81,403
1977	8,621	8,888	1,507	88,027	3,409	110,452
1978	15,020	10,317	17,451	45,991	32,110	120,889
1979	32,176	11,427	36,090	82,326	26,888	188,907
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
<b>Averages</b>						
1988-07	9,165	47,316	16,028	50,827	21,048	144,384
1998-07	6,327	32,505	8,466	32,812	5,657	85,767
2003-07	3,978	9,138	1,736	27,395	463	42,711

Table 30.–Chignik Management Area chum salmon harvest (including home pack and the department’s test fishery catches), by district and day, 2008.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
6/9	0	Closed	Closed	Closed	Closed	0
6/10	Closed	Closed	Closed	Closed	Closed	0
6/11	Closed	Closed	Closed	Closed	Closed	0
6/12	0	Closed	Closed	Closed	Closed	0
6/13	Closed	Closed	Closed	Closed	Closed	0
6/14	Closed	Closed	Closed	Closed	Closed	0
6/15	Closed	Closed	Closed	Closed	Closed	0
6/16	0	Closed	Closed	Closed	Closed	0
6/17	Closed	Closed	Closed	Closed	Closed	0
6/18	Closed	Closed	Closed	Closed	Closed	0
6/19	0	Closed	Closed	Closed	Closed	0
6/20	Closed	Closed	Closed	Closed	Closed	0
6/21	Closed	Closed	Closed	Closed	Closed	0
6/22	0	Closed	Closed	Closed	Closed	0
6/23	Closed	Closed	Closed	Closed	Closed	0
6/24	4	118	0	1,869	Closed	1,991
6/25	0	16	0	206	Closed	222
6/26	11	1,365	0	Closed	Closed	1,376
6/27	0	114	0	Closed	Closed	114
6/28	2	338	60	2,104	Closed	2,504
6/29	0	395	0	633	Closed	1,028
6/30	0	277	0	887	Closed	1,164
7/1	5	102	0	Closed	Closed	107
7/2	Closed	Closed	Closed	Closed	Closed	0
7/3	Closed	Closed	Closed	Closed	Closed	0
7/4	28	1,137	0	Closed	Closed	1,165
7/5	34	1,518	0	725	Closed	2,277
7/6	37	346	0	3,346	1,195	4,924
7/7	68	485	0	5,277	0	5,830
7/8	32	1,339	0	2,024	0	3,395
7/9	48	333	0	674	0	1,055
7/10	127	128	0	0	0	255
7/11	Closed	Closed	Closed	Closed	Closed	0
7/12	Closed	Closed	Closed	Closed	Closed	0
7/13	Closed	Closed	Closed	Closed	Closed	0
7/14	Closed	Closed	Closed	Closed	Closed	0
7/15	Closed	Closed	Closed	Closed	Closed	0
7/16	Closed	Closed	Closed	Closed	Closed	0
7/17	Closed	Closed	Closed	Closed	Closed	0
7/18	28	1,702	Closed	Closed	Closed	1,730
7/19	504	6,596	Closed	Closed	Closed	7,100
7/20	641	1,268	Closed	Closed	Closed	1,909
7/21	253	5,047	0	4,720	0	10,020
7/22	203	2,352	0	2,899	0	5,454
7/23	151	875	0	8,380	0	9,406

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Table 30.–Page 2 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
7/24	203	1,418	0	5,640	0	
7/25	Closed	Closed	Closed	Closed	Closed	0
7/26	Closed	Closed	Closed	Closed	Closed	0
7/27	Closed	Closed	Closed	Closed	Closed	0
7/28	Closed	Closed	Closed	Closed	Closed	0
7/29	759	1,350	1,541	8,853	613	13,116
7/30	666	586	4,275	2,760	374	8,661
7/31	378	967	2,993	3,970	184	8,492
8/1	985	336	8,354	2,056	972	12,703
8/2	85	496	4,423	1,928	1,315	8,247
8/3	785	460	110	3,117	1,108	5,580
8/4	553	937	7,299	3,669	815	13,273
8/5	849	653	6,550	1,719	855	10,626
8/6	374	692	3,173	2,898	1,056	8,193
8/7	241	1,085	1,250	Closed	Closed	2,576
8/8	1,732	1,780	2,294	Closed	Closed	5,806
8/9	173	1,184	4,476	Closed	Closed	5,833
8/10	553	189	4,892	1,973	183	7,790
8/11	348	721	3,283	1,897	65	6,314
8/12	236	364	486	1,332	0	2,418
8/13	108	0	1,478	7,072	0	8,658
8/14	202	124	261	1,269	0	1,856
8/15	214	0	504	1,610	0	2,328
8/16	295	0	42	1,245	0	1,582
8/17	162	0	0	66	0	228
8/18	72	0	0	0	0	72
8/19	155	0	0	88	0	243
8/20	89	684	0	366	4	1,143
8/21	156	37	768	190	0	1,151
8/22	118	0	413	29	0	560
8/23	105	55	0	255	0	415
8/24	78	3	0	90	0	171
8/25	21	72	0	0	0	93
8/26	53	23	0	162	0	238
8/27	56	57	0	71	0	184
8/28	95	6	0	0	0	101
8/29	33	0	0	9	0	42
8/30	40	0	0	0	0	40
8/31	18	0	0	0	0	18
9/1	17	0	0	0	0	17
9/2	32	0	0	0	0	32
9/3	26	0	0	0	0	26
9/4	29	0	0	0	0	29
9/5	18	0	0	0	0	18
9/6	4	0	0	0	0	4
9/7	0	0	0	0	0	0

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Table 30.–Page 3 of 3.

Date	District					Total
	Chignik Bay	Central	Eastern	Western	Perryville	
9/8	9	0	0	0	0	9
9/9	125	0	0	0	0	125
9/10	3	0	0	0	0	3
9/11	20	0	0	0	0	20
9/12	0	0	0	0	0	0
9/13	Closed	Closed	Closed	Closed	Closed	0
9/14	Closed	Closed	Closed	Closed	Closed	0
9/15	2	0	Closed	Closed	Closed	2
9/16	2	0	Closed	Closed	Closed	2
Total	13,453	40,130	58,925	88,078	8,739	209,325

Table 31.—Value of the commercial salmon harvest, by species, and average value per active permit, in dollars, in the Chignik Management Area, 1970 through 2008.

Year	Chinook		Sockeye		Coho		Pink		Chum		Total Value	Number of Permits <sup>c</sup>	Exvessel Value Per Permit
	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>			
1970	6,129	77	2,190,272	27,378	18,397	230	635,673	7,946	376,025	4,700	3,226,496	80	40,331
1971	6,472	84	2,034,279	26,419	23,240	302	366,693	4,762	326,760	4,244	2,757,444	77	35,811
1972	2,028	25	825,498	10,319	35,699	446	48,401	605	87,759	1,097	999,385	80	12,492
1973	5,255	67	3,030,057	38,355	73,663	932	20,610	261	10,180	129	3,139,765	79	39,744
1974	2,941	31	3,618,781	38,498	31,933	340	64,069	682	51,125	544	3,768,849	94	40,094
1975	6,561	76	1,384,271	16,096	213,539	2,483	104,115	1,211	61,704	717	1,770,190	86	20,584
1976	13,800	179	4,751,000	61,701	138,000	1,792	568,300	7,381	183,600	2,384	5,654,700	77	73,438
1977	18,828	214	14,553,720	165,383	104,819	1,191	920,881	10,465	368,066	4,183	15,966,314	88	181,435
1978	56,700	597	15,653,500	164,774	116,400	1,225	1,131,500	11,911	404,500	4,258	17,362,600	95	182,764
1979	32,050	311	11,345,503	110,151	710,192	6,895	2,622,269	25,459	126,866	1,232	14,836,880	103	144,047
1980	67,657	651	5,532,290	53,195	520,655	5,006	1,477,060	14,203	1,061,963	10,211	8,659,625	104	83,266
1981	75,231	716	17,262,119	164,401	439,900	4,190	1,881,334	17,917	2,431,421	23,156	22,090,005	105	210,381
1982	75,276	731	13,038,510	126,587	1,782,027	17,301	578,184	5,613	1,356,597	13,171	16,830,594	103	163,404
1983	96,159	943	10,728,088	105,177	219,650	2,153	240,171	2,355	421,713	4,134	11,705,781	102	114,763
1984	114,502	1,145	20,402,076	204,021	759,972	7,600	330,916	3,309	146,024	1,460	21,753,490	100	217,535
1985	67,088	633	7,997,834	75,451	1,471,418	13,881	140,076	1,321	59,475	561	8,735,891	106	82,414
1986	84,800	831	16,882,290	165,513	667,740	6,546	356,147	3,492	456,546	4,476	18,447,523	102	180,858
1987	72,739	706	24,783,033	240,612	1,035,129	10,050	269,868	2,620	339,819	3,299	26,500,588	103	257,287
1988	286,740	2,839	14,350,354	142,083	4,153,424	41,123	6,771,266	67,042	2,189,293	21,676	27,751,077	101	274,763
1989	78,999	790	13,047,378	130,474	436,892	4,369	32,994	330	4,745	47	13,601,008	100	136,010
1990	185,256	1,834	22,509,923	222,871	700,309	6,934	502,693	4,977	878,510	8,698	24,776,691	101	245,314
1991	50,027	490	11,002,784	107,870	650,626	6,379	402,916	3,950	502,860	4,930	12,609,213	102	123,620
1992	193,326	1,914	12,552,025	124,277	1,323,107	13,100	811,882	8,038	414,005	4,099	15,294,345	101	151,429
1993	175,690	1,722	8,210,106	80,491	730,622	7,163	637,666	6,252	184,012	1,804	9,938,096	102	97,432
1994	38,096	385	10,046,245	101,477	1,094,415	11,055	226,504	2,288	430,888	4,352	11,836,148	99	119,557
1995	60,174	602	11,969,210	119,692	834,337	8,343	977,811	9,778	634,780	6,348	14,476,312	100	144,763
1996	25,041	250	12,640,560	126,406	447,228	4,472	24,827	248	32,279	323	13,169,935	100	131,699
1997	20,642	211	4,860,589	49,598	453,905	4,632	348,042	3,551	239,400	2,443	5,922,577	98	60,434
1998	31,934	376	6,631,192	78,014	397,413	4,675	310,323	3,651	137,647	1,619	7,508,509	85	88,335
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

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Table 31.–Page 2 of 2.

Year	Chinook		Sockeye		Coho		Pink		Chum		Total Value	Number of Permits <sup>c</sup>	Exvessel Value Per Permit
	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>	Total Value <sup>a</sup>	Average Per Permit <sup>b</sup>			
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 <sup>d</sup>	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
Averages													
1988-07	67,036	696	9,838,636	104,530	623,068	6,391	675,397	7,277	321,791	3,337	11,525,928	94	122,231
1998-07	22,674	289	7,558,354	88,535	163,649	2,026	277,134	3,908	92,505	1,203	8,114,315	87	95,960
2003-07	27,107	375	4,804,775	65,294	97,170	1,520	279,727	4,766	65,183	1,093	5,273,962	80	73,047

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

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

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

<sup>d</sup> Values represent the initial price paid, and do not include any post-season adjustments by any processor. The average 2008 exvessel prices per pound were: Chinook- \$1.05, sockeye- \$0.88, coho- \$0.60, pink- \$0.22, chum- \$0.31.

Table 32.—Number of subsistence permits issued and returned and estimated subsistence salmon harvest, by species and year, 1980 through 2008.

Year	Permits		Estimated Salmon Harvest					Total
	Issued	Returned	Chinook	Sockeye	Coho	Chum	Pink	
1980	82	37	6	12,475	32	169	478	13,160
1981	29	7	0	2,049	0	0	0	2,049
1982	59	15	3	8,532	12	0	2	8,549
1983	32	21	0	3,078	1,319	850	1,250	6,497
1984	77	64	23	8,747	464	204	330	9,768
1985	59	48	1	7,177	50	25	26	7,279
1986	74	38	4	10,347	205	77	98	10,731
1987	2	1	0	400	0	0	0	400
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	10,357
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
Averages								
1988-07	120	82	118	9,672	1,727	268	1,055	12,840
1998-07	121	93	166	8,954	1,796	236	1,197	12,348
2003-07	122	89	184	8,892	1,965	256	1,081	12,380

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

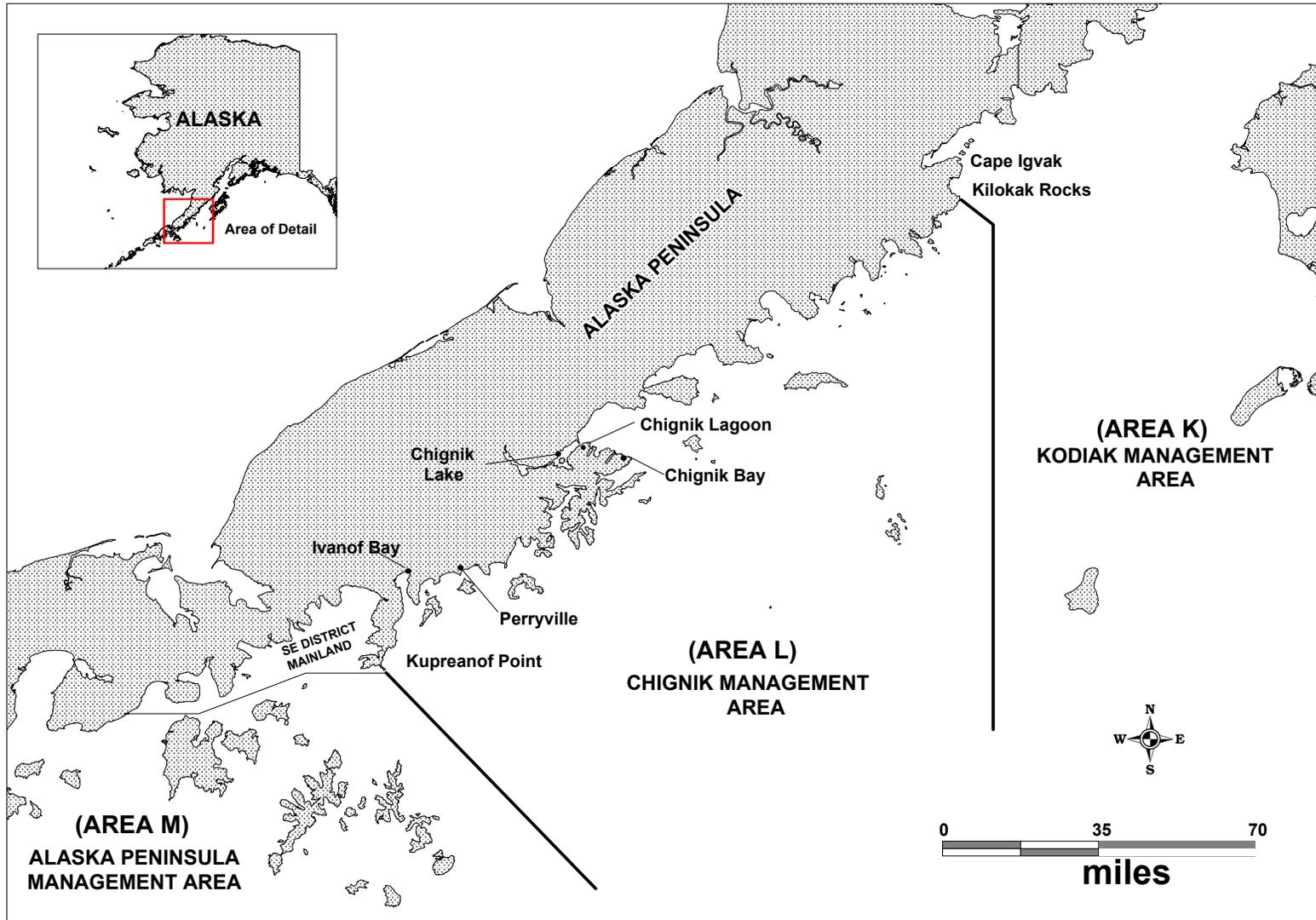


Figure 1.—Map of the Alaska Peninsula illustrating the relative locations of the Chignik, Kodiak, and Alaska Peninsula Management Areas.

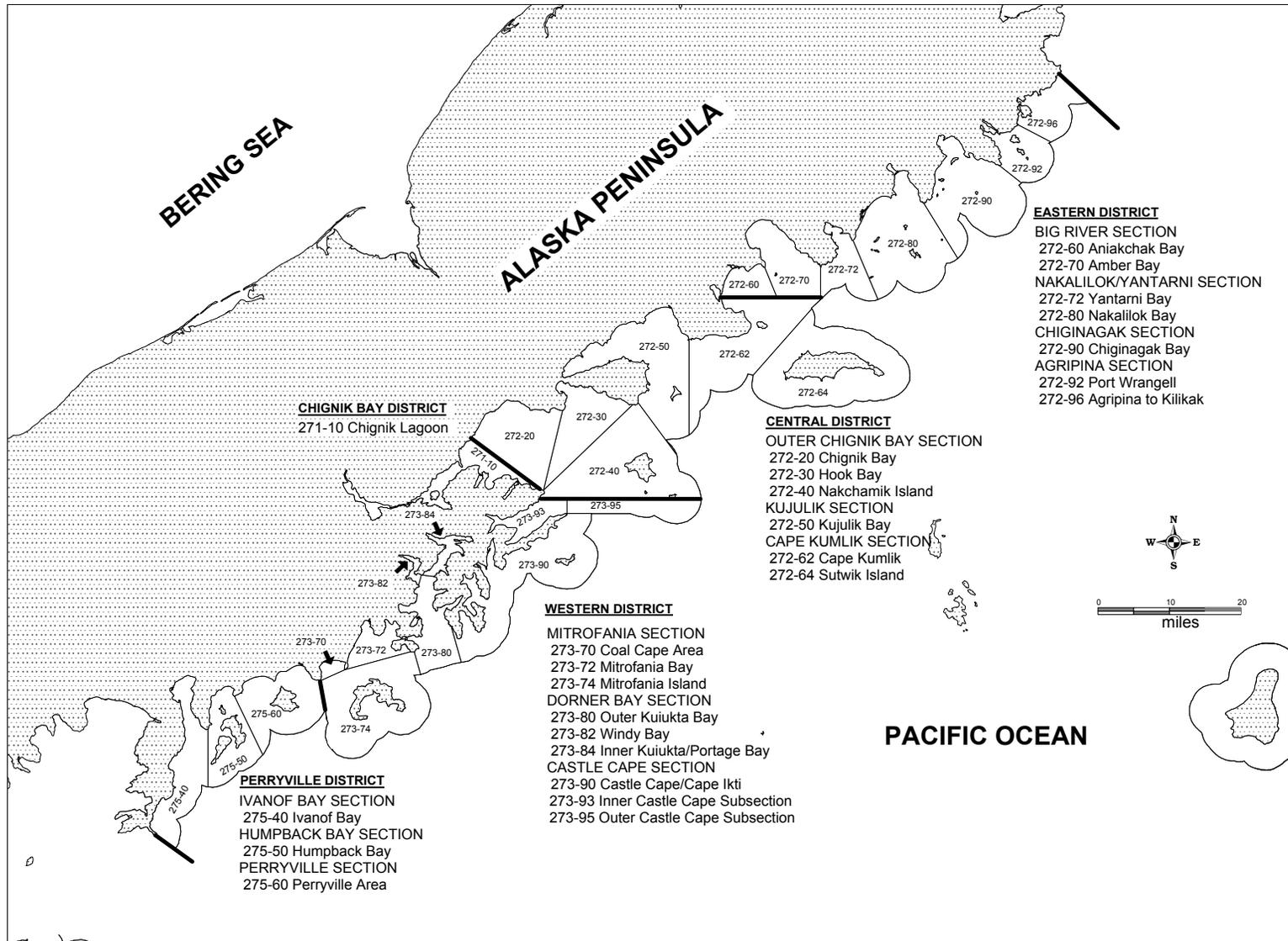


Figure 2.—Map of the Chignik Management Area illustrating district and section boundaries and statistical areas.

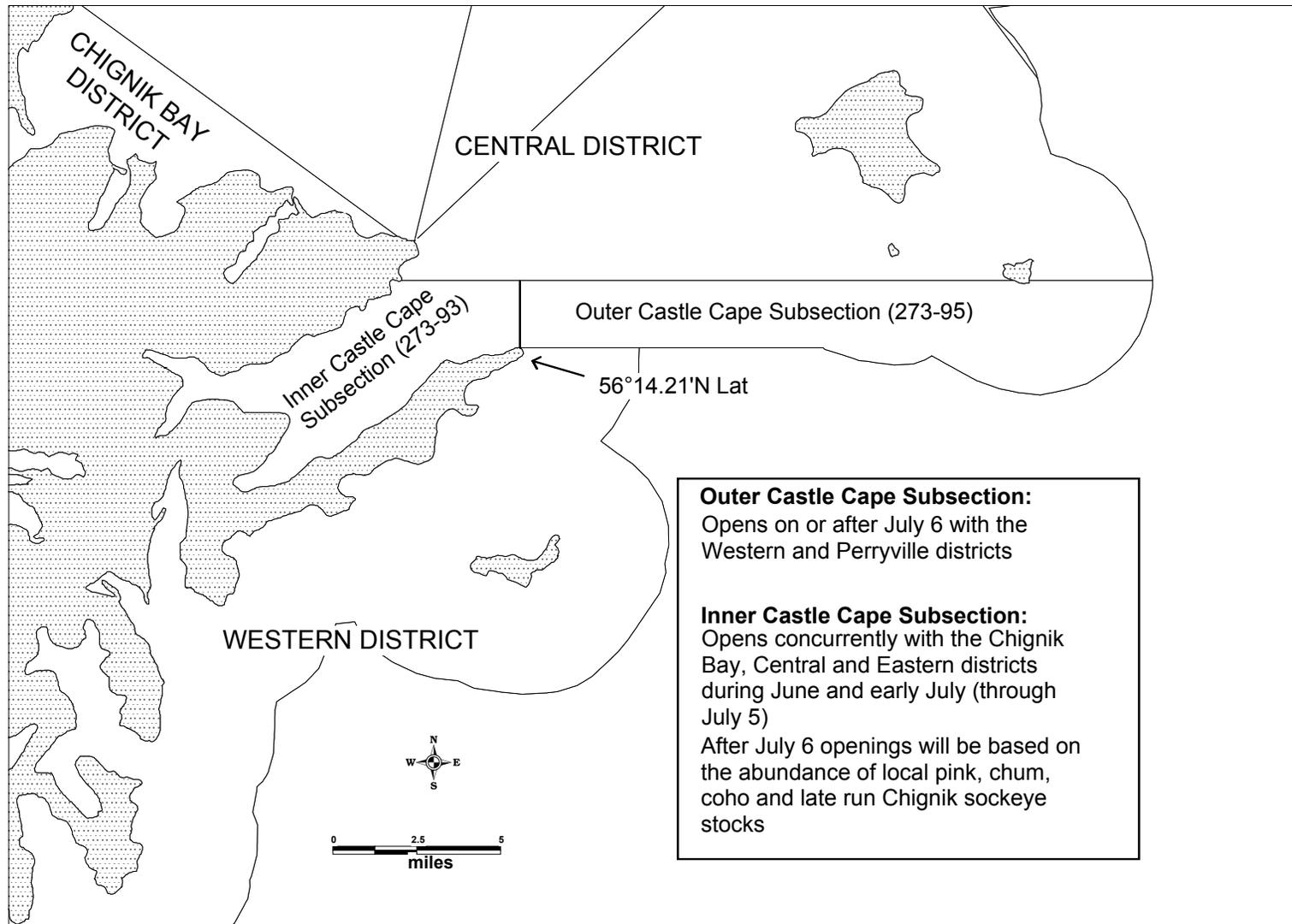


Figure 3.—Map depicting the newly established Inner (273-93), and Outer (273-95) Castle Cape Sections of the Western District.

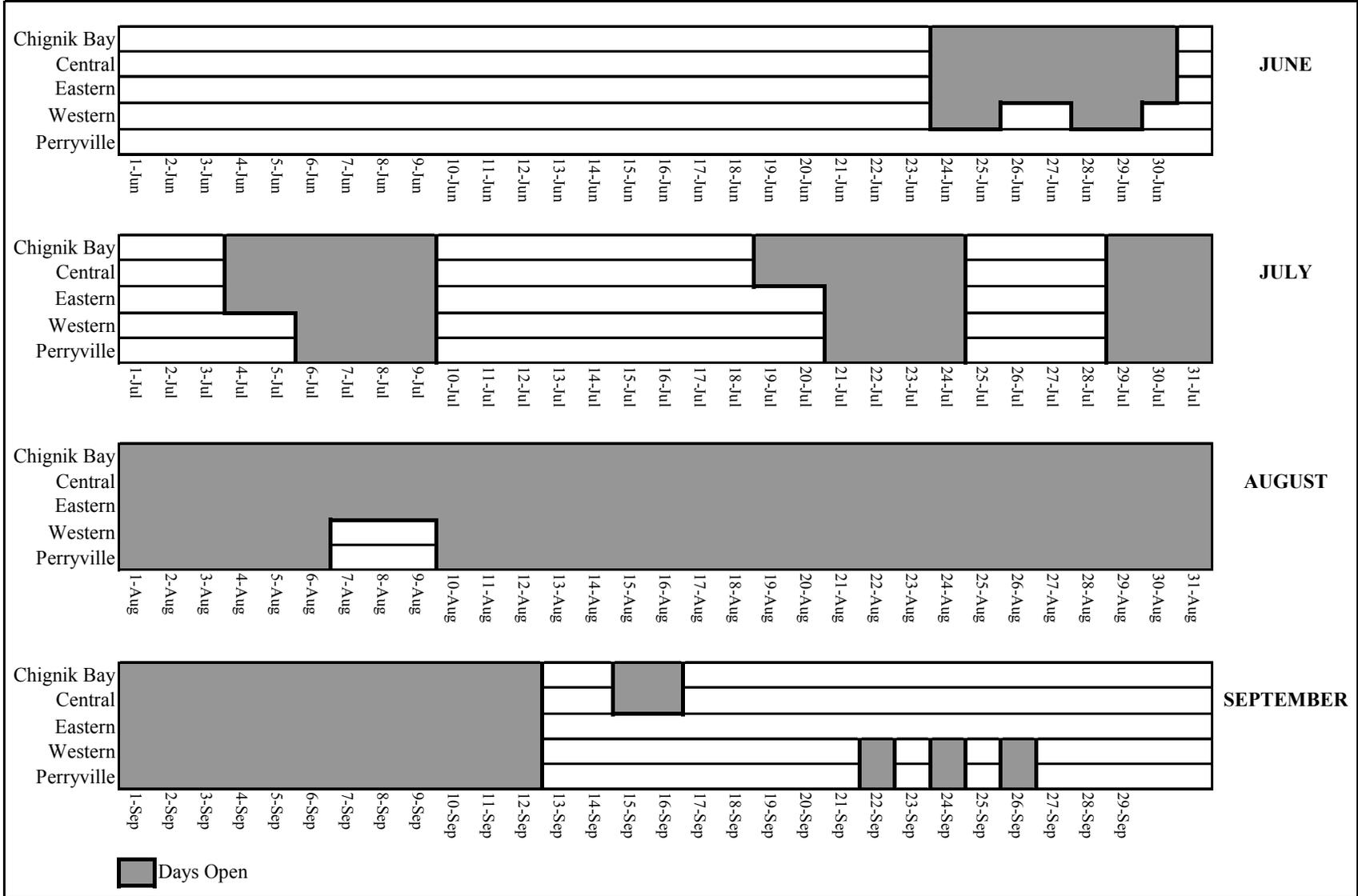


Figure 4.—Representation of days open to commercial salmon fishing, by district and month, 2008.

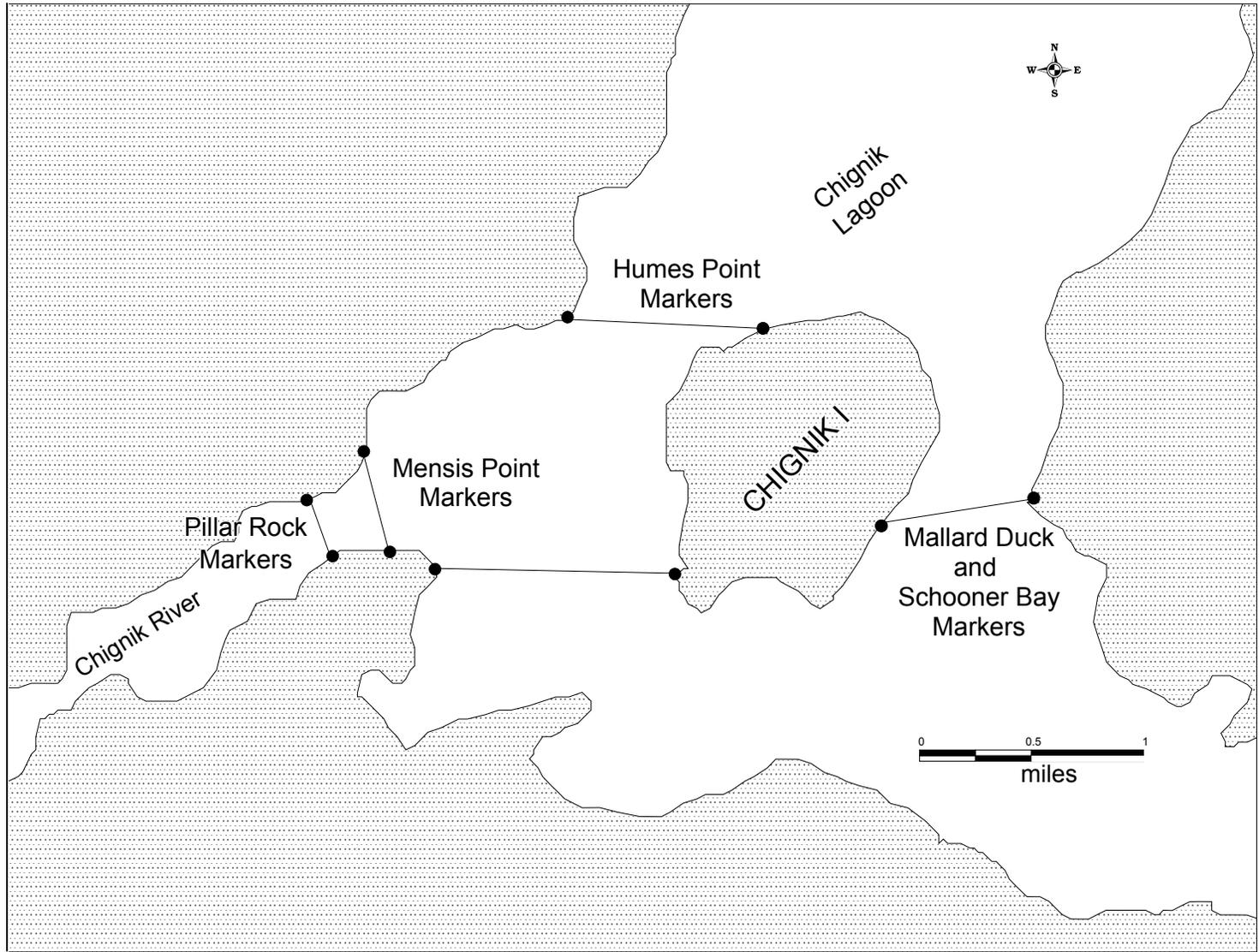


Figure 5.—Map of upper Chignik Lagoon depicting the location of the Pillar Rock, Mensis Point, Humes Point, and Mallard Duck and Schooner Bay marker locations.

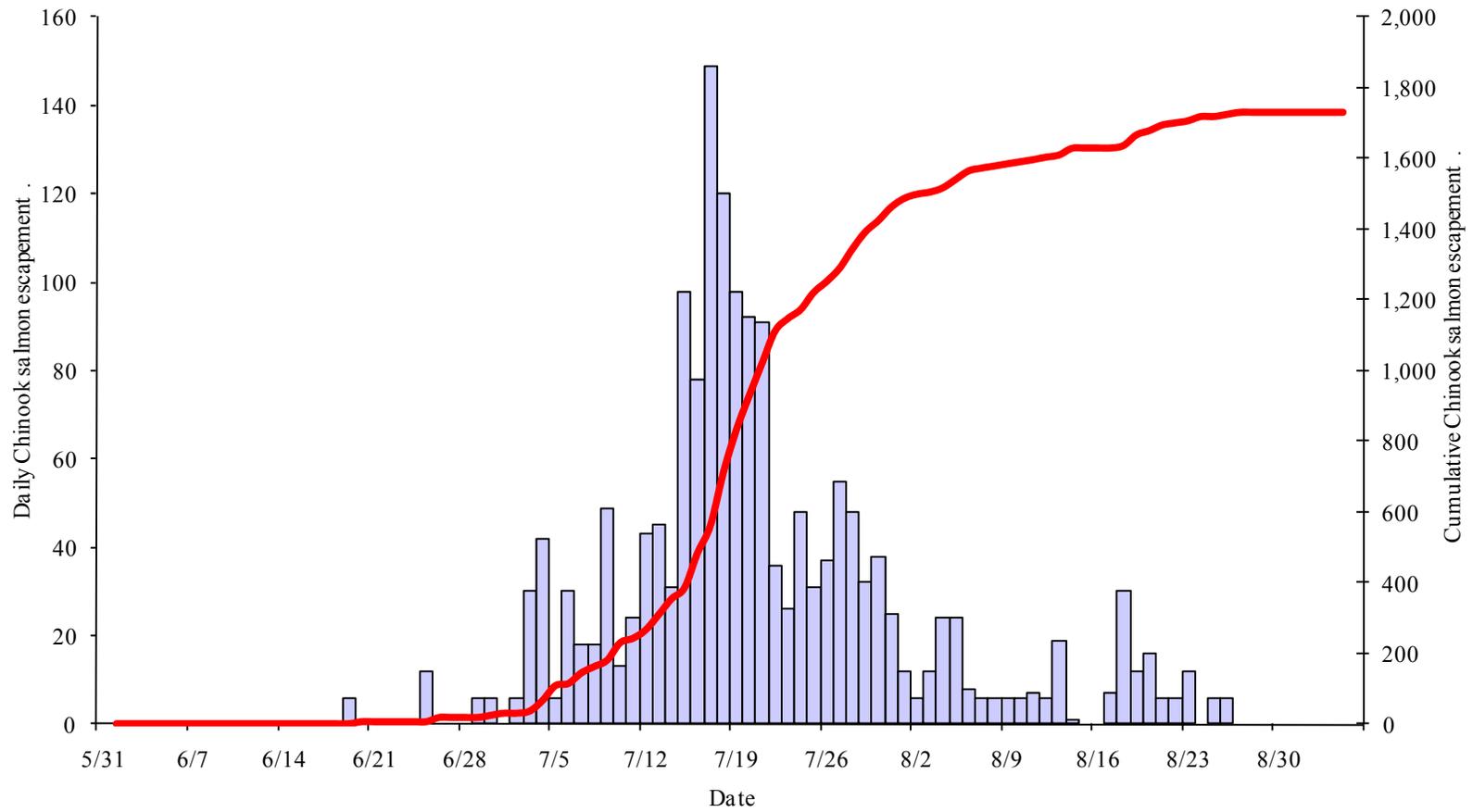


Figure 6.—Chignik River estimated daily and cumulative Chinook salmon escapement, 2008.

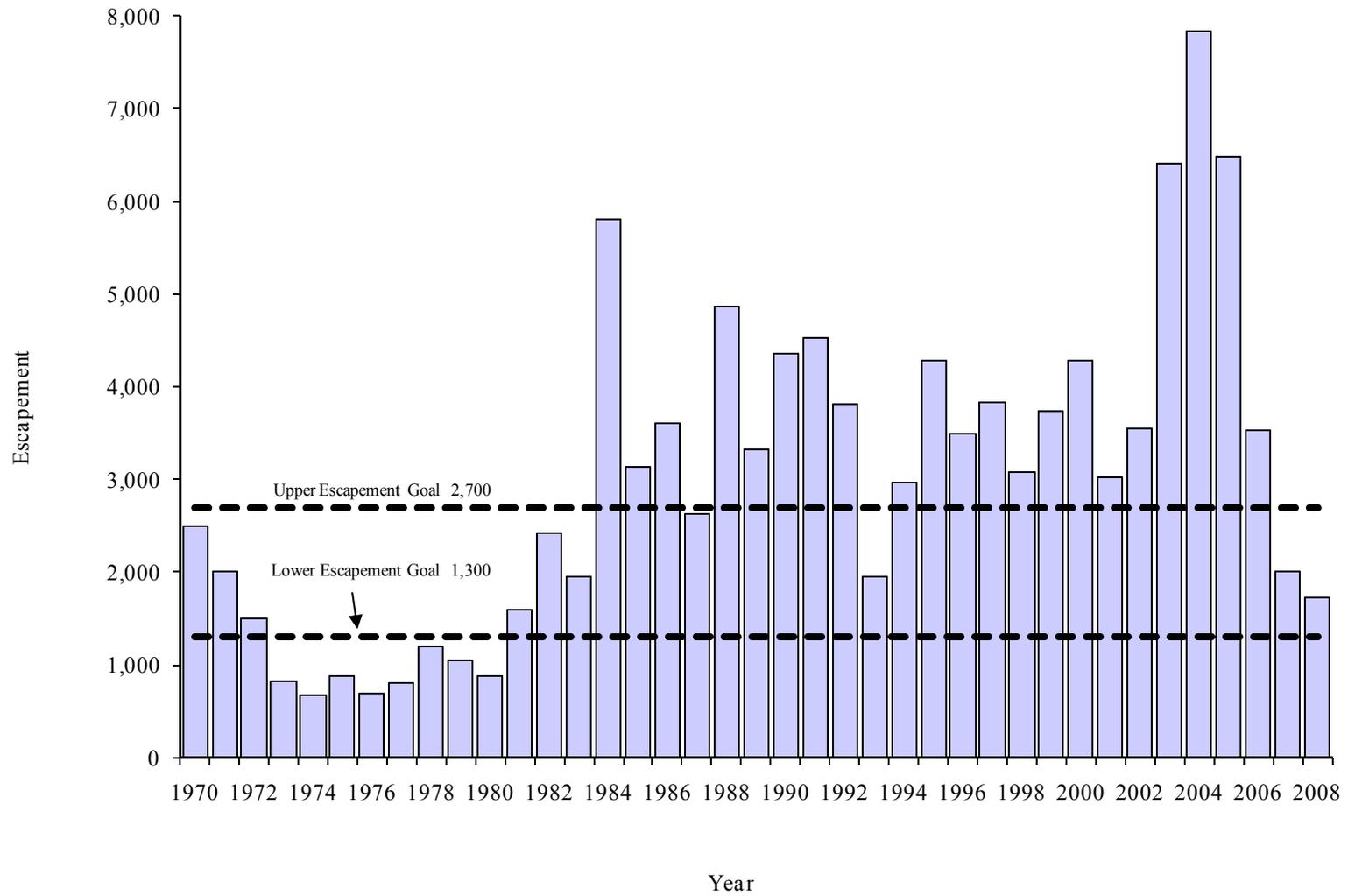


Figure 7.—Chignik River Chinook salmon escapement as compared to current escapement goals, by year, 1970 to 2008.

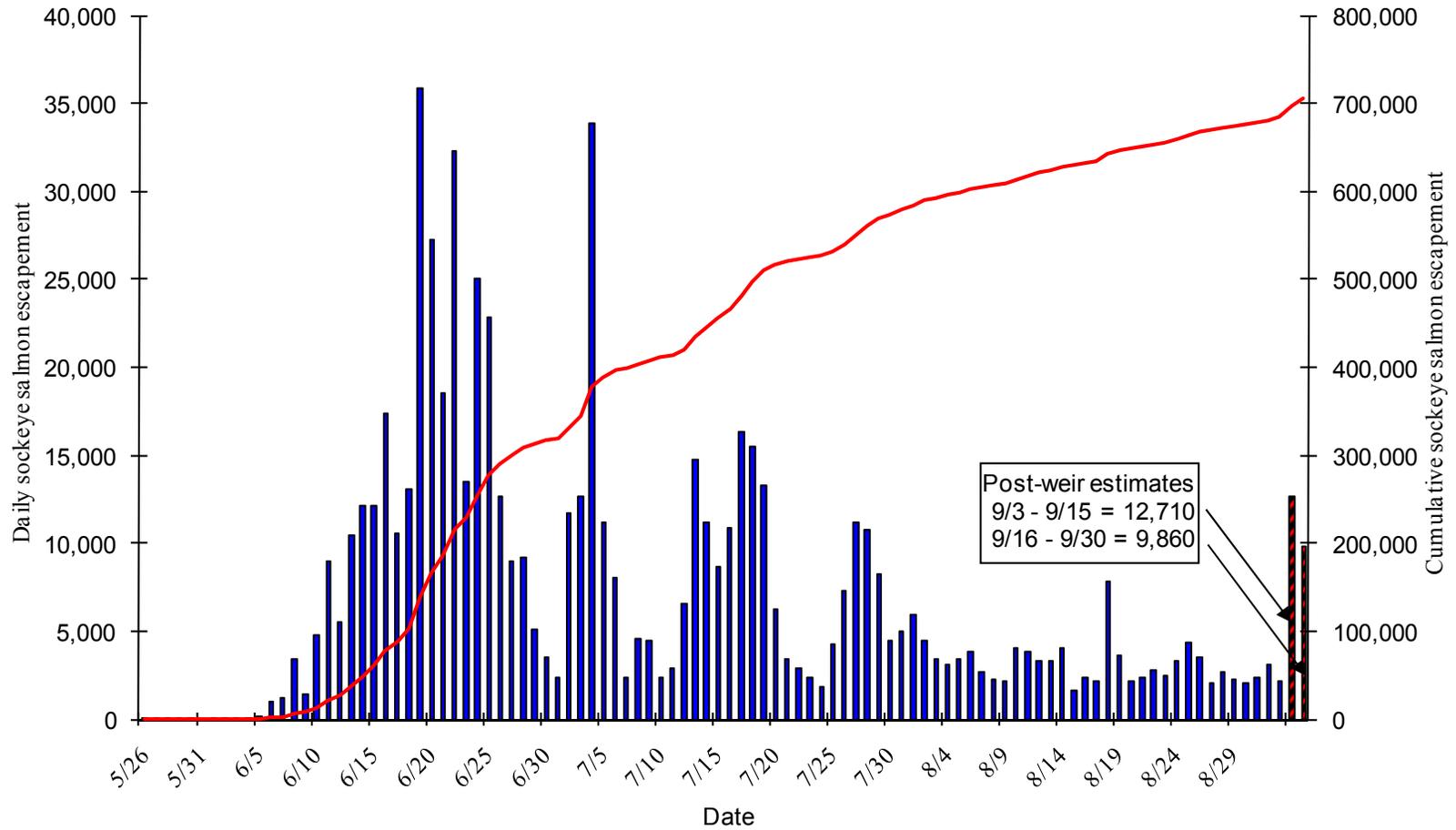


Figure 8.—Chignik River sockeye salmon daily and cumulative escapement, 2008.

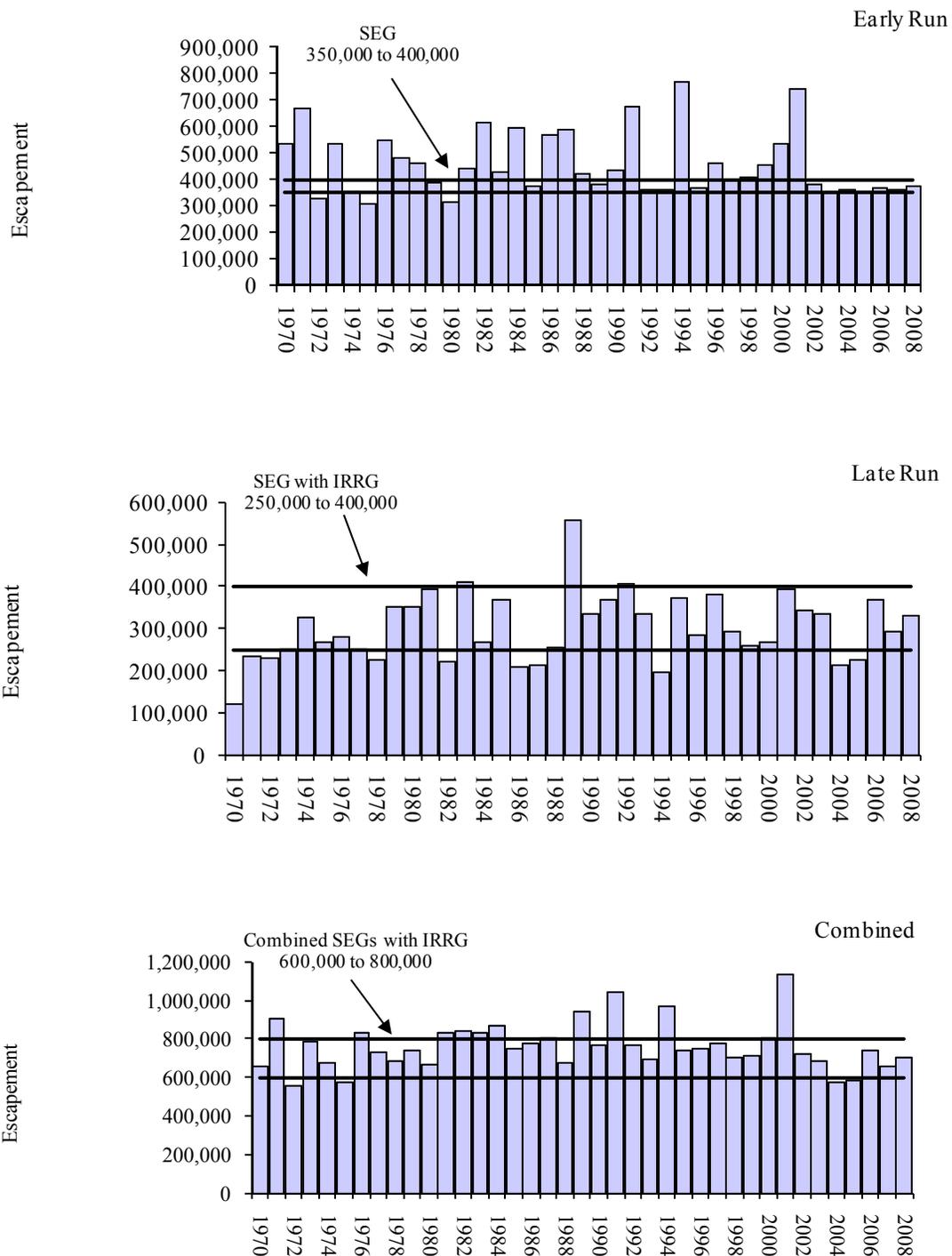


Figure 9.—Chignik River sockeye salmon early, late, and combined run escapements 1970 through 2008, compared to 2008 sustainable escapement goals.

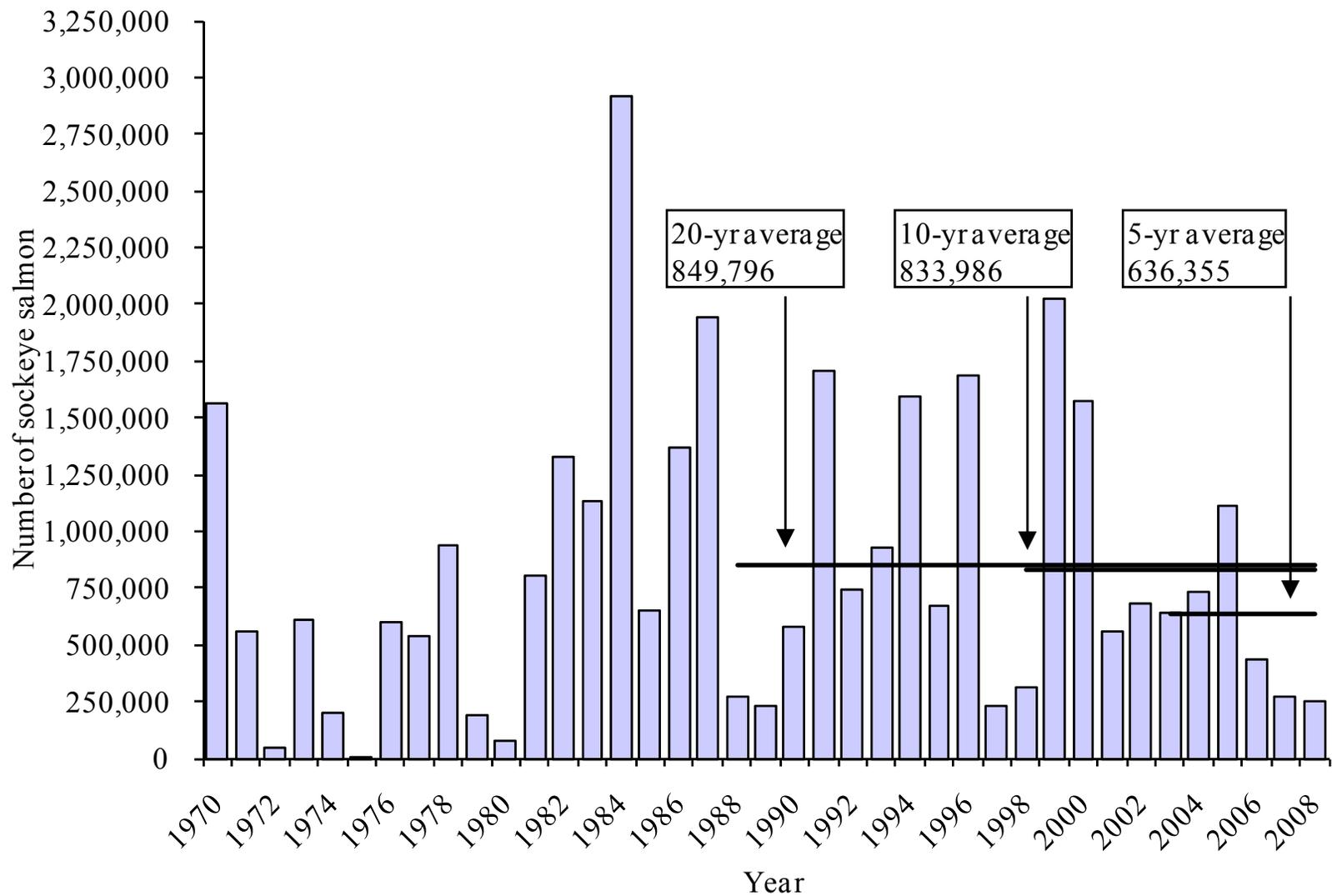


Figure 10.—Chignik-bound sockeye salmon early-run harvest, 1970 through 2008.

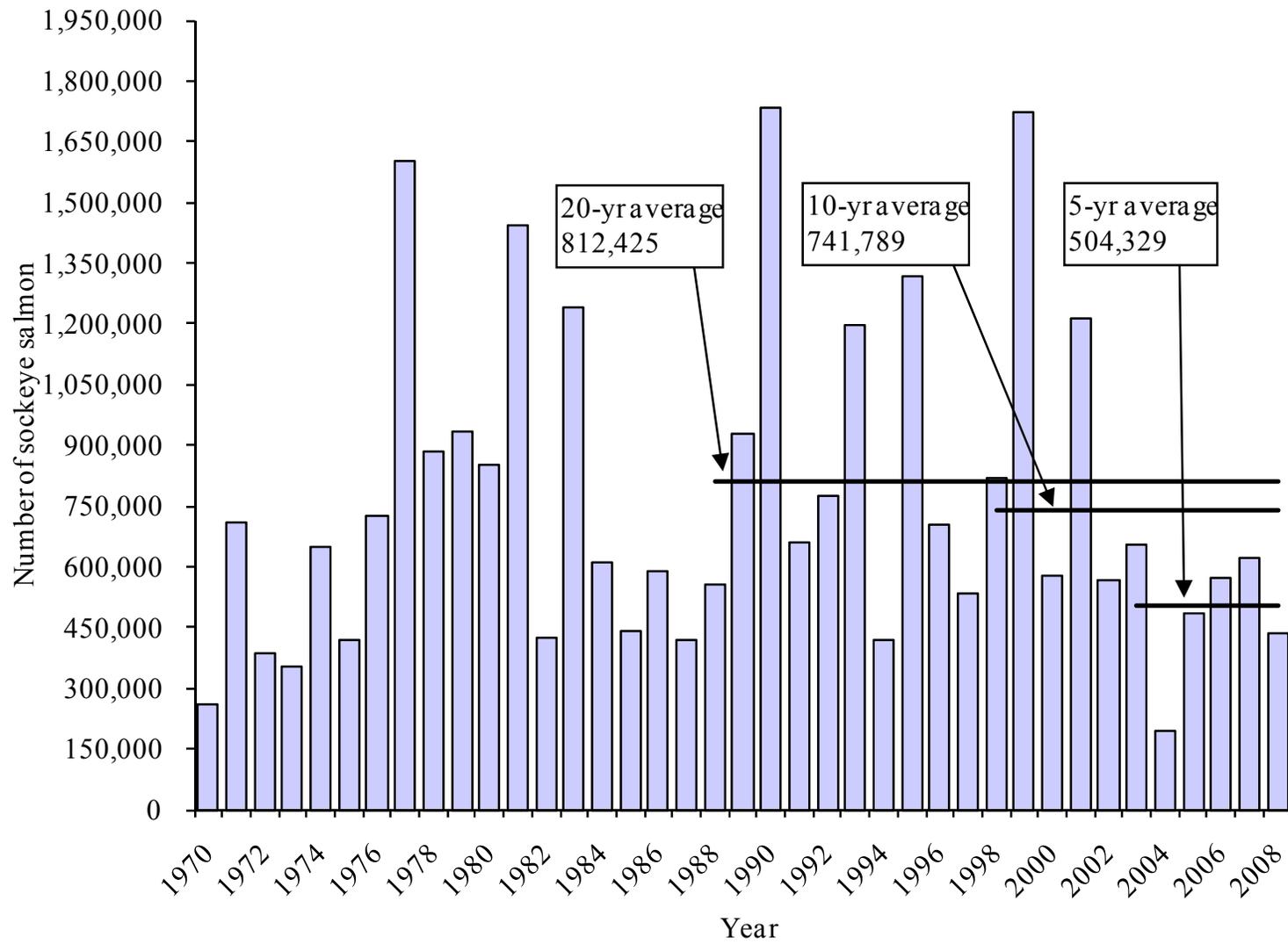


Figure 11.—Chignik-bound sockeye salmon late-run harvest, 1970 through 2008.

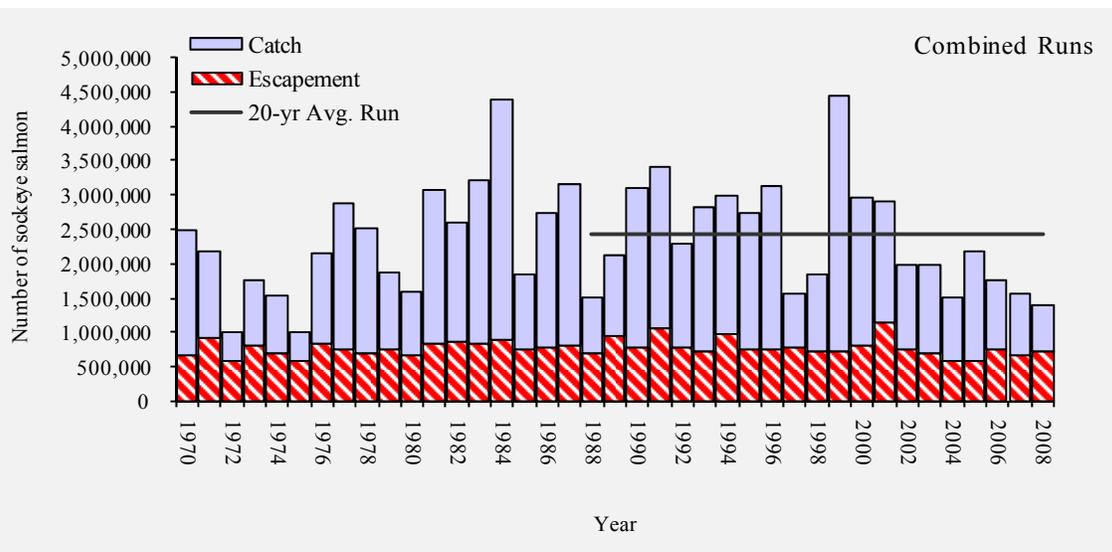
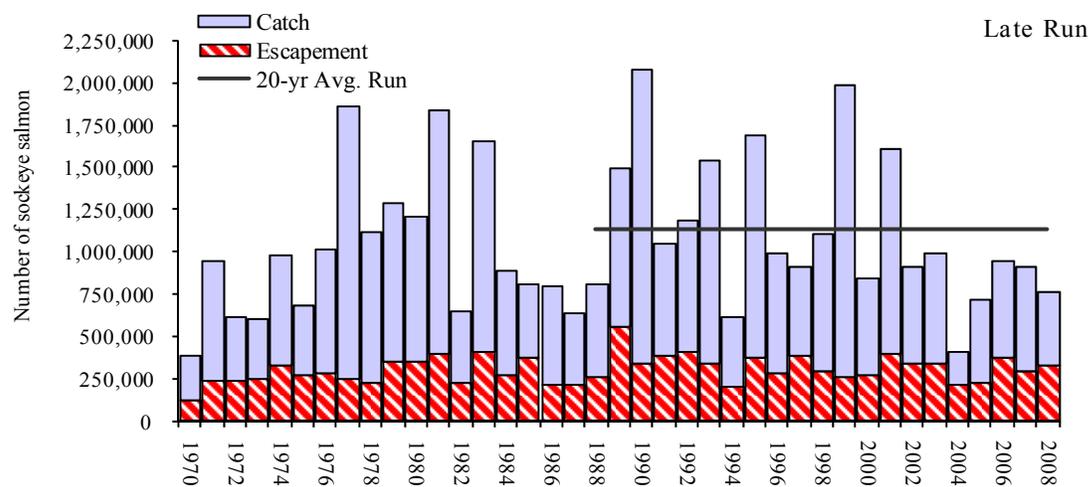
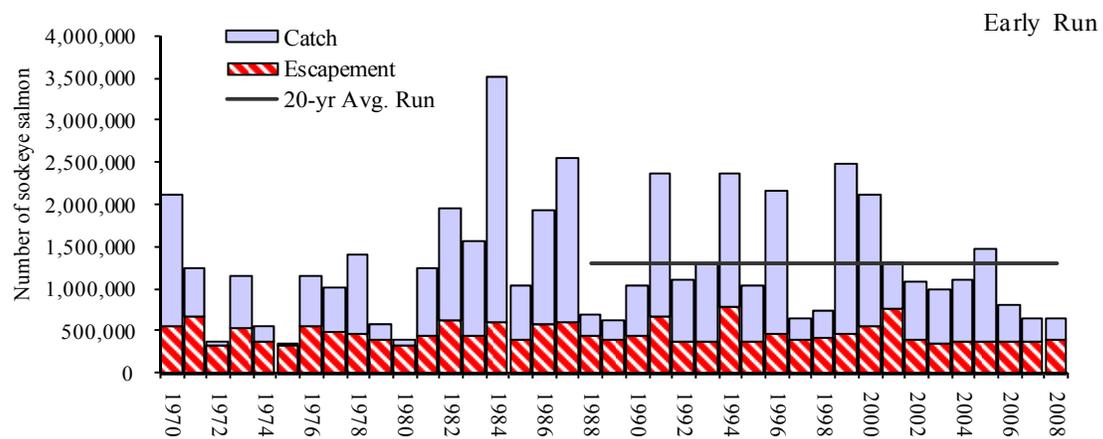


Figure 12.—Total sockeye salmon escapement and catch considered Chignik bound including home pack, the ADF&G's test fishery harvest, and Cape Igvak and SEDM harvest, by year and run, 1970 through 2008.

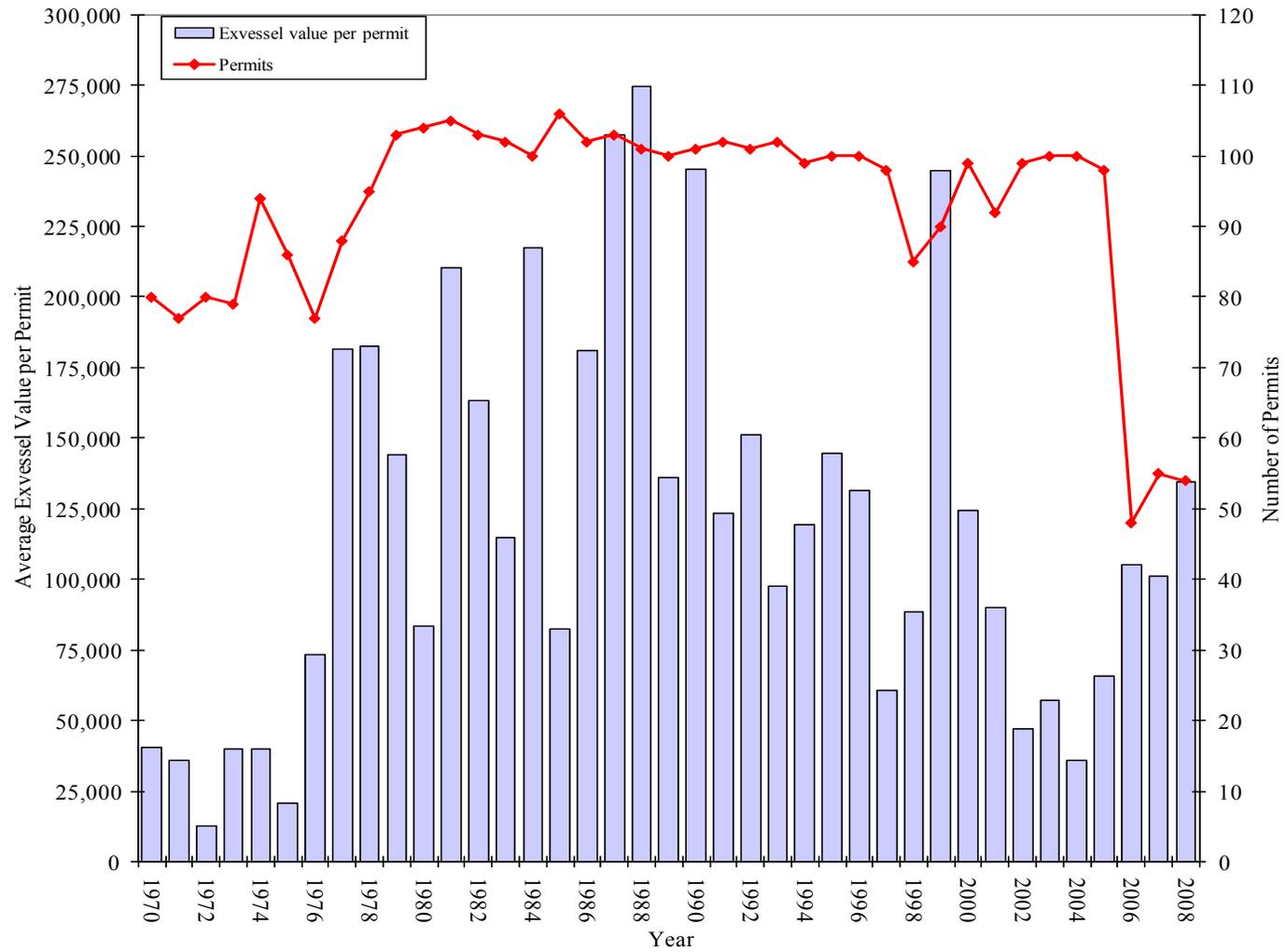


Figure 13.—Average exvessel value (\$) per permit and total permits fished by year 1970 through 2008.



**APPENDIX A. MEMORANDUM RECOMMENDING  
TARGETING THE LOWER BOUNDS OF THE CHIGNIK  
SOCKEYE SALMON ESCAPEMENT GOALS  
DURING THE 2008 SEASON**



## ALASKA DEPARTMENT OF FISH AND GAME

### *DIVISION OF COMMERCIAL FISHERIES*

### MEMORANDUM

**TO:** Jim McCullough  
Regional Supervisor  
Division of Commercial Fisheries  
Region IV – Kodiak  
and  
Steve Honnold  
Regional Finfish Research Supervisor  
Division of Commercial Fisheries  
Region IV – Kodiak  
and  
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and  
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Region IV – Kodiak

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

**SUBJECT:** Chignik Sockeye Salmon  
Escapement Goal Range  
Targets

The purpose of this memorandum is to discuss the current escapement goals to the Chignik watershed in terms of the current condition of sockeye salmon rearing habitat in Chignik and Black lakes. This discussion is based on data from the Chignik Watershed Ecological Assessment Project, the Chignik Smolt Enumeration Project, current management objectives, and recent adult return data.

Starting in 2002, management was advised to target the lower ranges of the escapement goals for the two stocks of

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Chignik sockeye salmon (Bouwens and Poetter 2006). This protocol was initially recommended because limnology data collected in 2000 and 2001 indicated that the zooplankton forage bases in Black and Chignik lakes were overgrazed by juvenile sockeye salmon (Bouwens and Finkle 2003; Finkle and Bouwens 2001). In an effort to improve rearing conditions in the Chignik watershed, and therefore juvenile sockeye salmon survival, the lower ranges of the escapement goals for both lakes were targeted to reduce the overgrazing of zooplankton, allowing the zooplankton biomass to rebound and increase, strengthening the forage base for rearing juvenile sockeye salmon in the watershed.

The current Chignik watershed escapement goals and management objectives (MOs) should be noted. Following the 2007 review of the Chignik Management Area escapement goals, the department recommended to its director not changing the early-run (Black Lake) sustainable escapement goal (SEG) range of 350,000 to 400,000 fish through July 4 and increasing the late-run (Chignik Lake) SEG range of 200,000 to 250,000 fish to 200,000 to 400,000 fish from July 5 until the end of the run to accommodate years with large returns. For subsistence fishers and supplemental to the late-run SEG, a September MO of 25,000 fish (September 1-15), originally established in 1989 (Witteveen et al. 2007), and an August MO of 25,000 fish (August 1-31) established by the Board of Fisheries (BOF) in 2004 (Witteveen et al. 2007) were consolidated and reclassified as an Inriver Run Goal (IRRG). This yielded a total late-run escapement and inriver run goal range of 250,000 to 400,000 sockeye salmon.

Respective to the new SEGs (550,000-800,000 fish), total sockeye salmon escapement estimates have been in excess of the SEG ranges for three of the past 16 years (1992 – 2007; Table 1).

Table 1. Sockeye salmon escapements in the Chignik watershed from 1992 to 2007.

	Early Run Escapement	Late Run Escapement	Total Run Escapement
Escapement Goal	350,000-400,000	200,000-400,000	550,000-800,000
Inriver Run Goal		50,000	
Year			
1992	360,681	403,755	764,436
1993	364,261	333,116	697,377
1994	769,465	197,444	966,909
1995	366,495	373,425	739,920
1996	464,748	284,389	749,137
1997	396,668	378,950	775,618
1998	410,659	290,469	701,128
1999	457,424	258,542	715,966
2000	536,141	269,084	805,225
2001	744,013	392,905	1,136,918
2002	380,701	344,519	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

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From 1992 to 2007 the early-run escapements have exceeded the current SEG upper range six times. The late-run escapements have failed to meet the current SEG lower range one time and exceeded the SEG upper range one time during the same time period.

Fluctuations in salmon escapements and their subsequent smolt production can greatly affect juvenile fish life history strategies and survival. A high abundance of juvenile sockeye salmon, resulting from high escapement levels, can negatively impact the zooplankton forage base because the zooplankton community is a complex, dynamic web of different species susceptible to different selective pressures. In the Chignik watershed, the late-summer migration of early-run juvenile sockeye salmon to Chignik Lake (Finkle 2007; Narver 1966; Parr 1972) can affect the zooplankton Chignik Lake forage base shared by both stocks. The abundance, species composition, and even the size of the zooplankton can change from top-down pressures from extensive grazing (Kerfoot 1987; Kyle 1996).

Limnology data collected from both Black and Chignik lakes indicated that the forage base was subject to top-down pressures by overgrazing from 2000 to 2007 (Finkle and Bouwens 2001; Bouwens and Finkle 2003; Finkle 2006a; Finkle 2006b; Finkle 2007, Finkle *in prep*). From 2000 to 2007, the mean size of the *Bosmina* in both lakes was very small and below the elective feeding size threshold of sockeye salmon (0.40 mm) suggesting overgrazing of larger *Bosmina* (Finkle 2007, Finkle *in prep*, Kyle 1992). High grazing pressure on zooplankton can cause a shift in zooplankton abundance and species composition to fewer and less nutritional species of sockeye salmon forage (Kerfoot 1987; Koenings and Burkett 1987). Since 2000, the seasonal zooplankton species composition in both lakes has varied in abundance: the copepods *Cyclops* or *Diaptomus* have been more abundant in June and the caldoceran *Bosmina* have been more abundant in August. Additionally, *Cyclops*, *Diaptomus*, and *Bosmina* are inefficient grazers on phytoplankton, and are poor transmitters of energy and nutrients through the food web (Kerfoot 1987). The average 2000 to 2007 weighted mean zooplankton biomass (regardless of species or size) in Chignik Lake was about 535 mg/m<sup>2</sup>. For comparison, the weighted mean zooplankton biomass of Chignik Lake in 1991 was 916 mg/m<sup>2</sup>. Edmundson and Mazumder (2001) suggested that juvenile sockeye salmon starve when zooplankton biomass levels approach about 100 mg/m<sup>2</sup> and are fully satiated at levels above 1,000 mg/m<sup>2</sup>. Since targeting the lower ranges of the escapement goals in 2002, the zooplankton biomass of Chignik Lake has increased from 431 mg/m<sup>2</sup> in 2003 to 873 mg/m<sup>2</sup> in 2007. These increases in the mean weighted biomass suggest that top-down pressures have been reduced in Chignik Lake, improving rearing conditions. However, because the effects of top-down pressures are still evident via the species composition variation and small *Bosmina* size in Chignik Lake, this suggests the continued targeting of the lower SEG ranges.

Data from the Chignik Smolt Enumeration Project (Finkle *in prep*) also indicated that the past (1997 to 2002) numbers of juvenile sockeye salmon rearing in the freshwater ecosystem may have taxed the available forage base; from 2003 to 2007 an average of 6.07 million smolt per year emigrated from the watershed compared to a 1997 to 2002 average of 20 million smolt per year. The 2003 to 2007 outmigration estimates were five of the six lowest estimates of juvenile sockeye salmon outmigration from the watershed (Finkle *in prep*). Similarly, the recent decline in the proportions of age-2. and -3. smolt may be the result of poor feeding conditions in years following large escapements such as 2000 through 2003 and 2006 (Table 1). Additionally, the increase in age-0. fish in smolt trap catches during 2005 and 2006 may also indicate a downstream migration to Chignik Lagoon from Chignik Lake to find better rearing conditions. Thus, the freshwater survival of juvenile sockeye salmon may have been low in recent years because of low food availability due to overgrazing from prior years of rearing juvenile sockeye salmon.

The lower-than-average 2004-2007 adult runs were the recruits of overescapement brood years (1998-2002) that were subject to poor zooplankton forage base conditions from 2000 to 2003. The goal of targeting the lower ranges of the escapement objectives was implemented from 2002 to 2007 to relieve the top-down pressure on the zooplankton populations from overescapement to each lake. Subsequently, this recommendation is expected to increase the

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overall ecological health of the system in terms of sockeye salmon production. The effects of the targeted lower escapement goal ranges from 2003 to 2007 will not be realized until the young of the year sockeye salmon have reared in the watershed and return as adults starting in 2008. However, to date, the general response to this strategy has been an increase in the zooplankton forage base in both lakes. This protocol is still relevant because early-run juvenile sockeye salmon, which rear and compete in Chignik Lake (Narver 1966; Parr 1972), can still deplete the forage base shared by both stocks, let alone in their natal Black Lake. Thus, it is recommended that the lower end of the early-run escapement objective (350,000 fish) be targeted in 2008. However, because of the recent low late-run returns, it is recommended to target the lower third of the late-run escapement objective range (~260,000 fish). This strategy may provide stronger, future late-run returns while allowing subsistence needs to be met without depleting zooplankton levels in each nursery lake.

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## **APPENDIX B. SUMMARY OF 2008 EMERGENCY ORDERS**

Appendix B1.–Summary of the 2008 Chignik Management Area emergency orders.

E.O. Number	Issued	Effective	Action taken
4-FS-L-01-08	6:15 PM 6/22/2008	8:00 AM 6/24/2008	<b>Opens</b> the Chignik Bay, Central, Eastern, and Western districts for 48 hours from 8:00 AM Tuesday, June 24 until 8:00 AM Thursday, June 26. <b>Closed Waters</b> Effective 8:00 AM Tuesday, June 24 salmon may only be taken northeast of Humes Point.
4-FS-L-02-08	6:15 PM 6/24/2008	8:00 AM 6/26/2008	<b>Extends</b> the current commercial salmon fishing period in the Chignik Bay, Central, and Eastern districts as well as the Inner Castle Cape Section of the Western District for 48 hours from 8:00 AM Thursday, June 26 until 8:00 AM Saturday, June 28. <b>Closed Waters</b> Effective 8:00 AM Thursday, June 26 the Chignik Lagoon markers will move to Mensis Point
4-FS-L-03-08	6:15 PM 6/26/2008	8:00 AM 6/28/2008	<b>Extends</b> the Chignik Bay, Central, and Eastern districts for an additional 48 hours from 8:00 AM Saturday, June 28 until 8:00 AM Monday, June 30. <b>Opens</b> the Western District for 48 hours beginning at 8:00 AM Saturday, June 28 to 8:00 AM Monday, June 30. <b>Closed Waters</b> Chignik Lagoon markers will remain at Mensis Point.
4-FS-L-04-08	10:00 AM 6/29/2008	8:00 AM 6/30/2008	<b>Extends</b> the Chignik Bay, Central, and Eastern districts as well as the Inner Castle Cape Section of the Western District for 24 hours from 8:00 AM Monday, June 30 until 8:00 AM Tuesday, July 1. <b>Closed Waters</b> Chignik Lagoon markers will remain at Mensis Point.
4-FS-L-05-08	9:15 AM 7/3/2008	5:00 AM 7/4/2008	<b>Opens</b> the Chignik Bay, Central, and Eastern districts as well as the Inner Castle Cape Section of the Western District for 48 hours from 5:00 AM Friday, July 4 to 5:00 AM Sunday, July 6.
4-FS-L-06-08	10:15 AM 7/4/2008	6:00 PM 7/4/2008	<b>Closed Waters</b> Effective 6:00 PM July 4 the upper Chignik Lagoon markers will move to Mensis Point.
4-FS-L-07-08	10:15 AM 7/5/2008	5:00 AM 7/6/2008	<b>Extends</b> the Chignik Bay, Central, and Eastern districts for 56 hours from 5:00 AM Sunday, July 6 until 12:00 PM Tuesday, July 8. <b>Opens</b> the Western and Perryville districts for 56 hours from 5:00 AM Sunday, July 6 to 12:00 PM Tuesday, July 8.
4-FS-L-08-08	10:15 PM 7/7/2008	12:00 PM 7/8/2008	<b>Extends</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts for 48 hours from 12:00 PM Tuesday, July 8 to 12:00 PM Thursday, July 10.
4-FS-L-09-08	5:00 PM 7/17/2008	5:30 PM 7/18/2008	<b>Opens</b> the Chignik Bay and Central districts for 24 hours from 5:30 PM Friday, July 18 to 5:30 PM Saturday, July 19. <b>Closed Waters</b> Effective 5:30 PM Friday, July 18 the Chignik Lagoon markers will be located at Humes.
4-FS-L-10-08	8:15 PM 7/18/2008	5:30 PM 7/19/2008	<b>Extends</b> the Chignik Bay and Central districts for an additional 24 hours from 5:30 PM Saturday, July 19 to 5:30 PM Sunday, July 20.
4-FS-L-11-08	9:15 AM 7/20/2008	5:30 PM 7/20/2008	<b>Extends</b> the Chignik Bay and Central districts for 54 ½ hours from 5:30 PM Sunday, July 20 to 11:59 PM Tuesday July 22. <b>Opens</b> the Eastern, Western, and Perryville districts for 48 hours from 11:59 PM Sunday, July 20 to 11:59 PM Tuesday July 22. <b>Closed Waters</b> Effective 5:30 PM Sunday, July 20 the upper Chignik Lagoon markers will move to Mensis Point.
4-FS-L-12-08	4:45 PM 7/21/2008	11:59 PM 7/22/2008	<b>Extends</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts for an additional 48 hours from 11:59 PM Tuesday, July 22 to 11:59 PM Thursday, July 24.

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E.O. Number	Issued	Effective	Action taken
4-FS-L-13-08	3:30 PM 7/27/2008	11:00 PM 7/28/2008	<b>Opens</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts for 72 hours from 11:00 PM Monday, July 28 to 11:00 pm Thursday, July 31. <b>Closed Waters</b> Effective 11:00 PM Monday, July 28 the Chignik Lagoon markers will be located at Humes Point.
4-FS-L-14-08	9:00 PM 7/30/2008	11:00 PM 7/31/2008	<b>Extends</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts for an additional 72 hours from 11:00 PM Thursday, July 31 to 11:00 PM Sunday, August 3. <b>Closed Waters</b> Effective 4:00 PM Wednesday, July 30 the Chignik Lagoon markers will move to Mensis Point.
4-FS-L-15-08	1:00 PM 8/2/2008	11:00 PM 8/3/2008	<b>Extends</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts for 72 hours from 11:00 PM Sunday, August 3 to 11:00 PM Wednesday, August 6.
4-FS-L-16-08	2:15 PM 8/3/2008	3:00 PM 8/3/2008	<b>Closed Waters</b> Effective 3:00 p.m. Sunday, August 3 from a line extending north starting at a point at 55° 49.526' N lat 158° 42.744' W long. (southeastern corner of Mitrofanian Island) to a point at 55° 50.669' N lat. 158° 42.448' W long. All waters east of this line 1 nautical mile closed until further notice to prevent harvest of immature salmon.
4-FS-L-17-08	9:15 AM 8/5/2008	11:00 AM 8/6/2008	<b>Extends</b> the Chignik Bay, Central, and Eastern districts for an additional 72 hours from 11:00 PM Wednesday, August 6 to 11:00 PM Saturday, August 9.
4-FS-L-18-08	6:30 PM 8/8/2008	11:00 PM 8/9/2008	<b>Extends</b> the Chignik Bay and Central districts to open until further notice. <b>Extends</b> the Eastern District for an additional 72 hours from 11:00 PM Saturday, August 9 to 11:00 PM Wednesday, August 12. <b>Opens</b> the Western and Perryville districts for 72 hours from 11:00 PM Saturday, August 9 to 11:00 PM Wednesday, August 12.
4-FS-L-19-08	6:15 PM 8/11/2008	11:00 PM 8/12/2008	<b>Extends</b> the Eastern District from 11:00 PM Tuesday, August 12 to 11:00 PM Tuesday, August 19. <b>Extends</b> the Western and Perryville districts for an additional 72 hours from 11:00 PM Tuesday, August 12 to 11:00 PM Friday, August 15.
4-FS-L-20-08	6:15 PM 8/14/2008	11:00 PM 8/15/2008	<b>Extends</b> the Western and Perryville districts for an additional 72 hours from 11:00 PM Friday, August 15 to 11:00 PM Monday, August 18. <b>Extends</b> the Eastern District to open until further notice.
4-FS-L-21-08	6:15 PM 8/14/2008	1:00 PM 8/16/2008	<b>Closed Waters</b> Effective 1:00 PM Saturday, August 16 until 6:00 PM Sunday, August 17 the closed waters in Lake Bay will be reduced to include only those portions of Lake Bay southwest of a line at 56° 16.790' N. lat.
4-FS-L-22-08	6:15 PM 8/17/2008	11:00 PM 8/18/2008	<b>Extends</b> the Western and Perryville districts for an additional 72 hours from 11:00 PM Monday, August 18 to 11:00 PM Thursday, August 21.
4-FS-L-23-08	6:15 PM 8/20/2008	11:00 PM 8/21/2008	<b>Extends</b> the Western and Perryville districts to open until further notice.
4-FS-L-24-08	12:15 PM 9/12/2008	11:59 PM 9/12/2008	<b>Closes</b> the Chignik Bay, Central, Eastern, Western, and Perryville districts at 11:59 PM Friday, September, 12.
4-FS-L-25-08	12:00 PM 9/13/2008	12:00 PM 9/15/2008	<b>Opens</b> the Chignik Bay and Central districts for 48 hours from 12:00 PM Monday, September 15 to 12:00 PM Wednesday, September 17. <b>Closed Waters</b> Effective 12:00 PM September 15 the Chignik Lagoon markers will be located at Mensis Point.
4-FS-L-26-08	2:30 PM 9/19/2008	8:00 AM 9/22/2008	<b>Opens</b> the Western and Perryville districts, with the exception of the Perryville section (275-60) in the Perryville District, for three 24 hour fishing periods: 8:00 AM September 22 to 8:00 AM September 23; 8:00 AM September 24 to 8:00 AM September 25; and 8:00 AM September 26 to 8:00 AM September 27.



**APPENDIX C. COMMERCIAL SALMON FISHERY CATCH  
AND EFFORT, BY DAY**

Appendix C1.–Commercial salmon fishing effort and harvest (including home pack but not including the department’s test fishery harvest), by day in the Chignik Management Area, 2008.

Date	Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
21-Jun														
22-Jun														
23-Jun														
24-Jun	57	57	18	276	47,615	327,297	0	0	10,342	31,418	1,991	16,854	59,966	375,845
25-Jun	37	37	5	114	13,933	95,671	0	0	623	1,869	222	1,843	14,783	99,497
26-Jun	47	47	39	733	40,913	272,334	1	17	6,441	16,470	1,376	10,815	48,770	300,369
27-Jun	40	40	5	91	34,855	232,995	0	0	50	125	114	910	35,024	234,121
28-Jun	46	46	37	646	27,044	181,762	17	139	11,441	34,500	2,504	21,422	41,043	238,469
29-Jun	45	45	17	425	23,167	156,588	14	116	4,390	12,149	1,028	8,484	28,616	177,762
30-Jun	46	46	29	437	22,576	151,126	46	305	9,125	27,713	1,164	10,145	32,940	189,726
1-Jul	20	20	3	40	7,481	51,813	0	0	149	527	107	840	7,740	53,220
2-Jul														
3-Jul														
4-Jul	55	55	21	324	30,740	212,583	100	675	1,146	3,391	1,165	8,698	33,172	225,671
5-Jul	55	55	15	211	29,722	206,515	46	287	2,765	7,042	2,277	17,975	34,825	232,030
6-Jul	48	48	40	619	20,609	144,517	306	1,943	11,665	32,018	4,924	36,960	37,544	216,057
7-Jul	48	48	42	683	27,624	191,253	697	5,070	16,830	53,649	5,830	43,221	51,023	293,876
8-Jul	45	45	60	912	17,881	123,211	1,119	9,044	11,509	38,287	3,395	26,186	33,964	197,640
9-Jul	36	36	52	693	9,249	66,888	446	3,133	3,784	12,557	1,055	8,506	14,586	91,777
10-Jul	34	34	3	51	5,666	40,659	50	317	1,157	3,955	255	2,105	7,131	47,087
11-Jul														
12-Jul														
13-Jul														
14-Jul														
15-Jul														
16-Jul														
17-Jul														
18-Jul	28	28	23	348	5,932	42,718	210	1,575	19,520	66,968	1,730	12,926	27,415	124,535
19-Jul	50	50	16	283	13,479	97,513	214	1,651	25,782	76,934	7,100	56,470	46,591	232,851
20-Jul	45	45	18	173	9,354	67,625	153	1,280	34,584	115,647	1,909	13,903	46,018	198,628
21-Jul	53	53	37	733	13,474	95,523	12,969	95,083	111,463	383,175	10,020	82,244	147,963	656,758
22-Jul	47	47	28	430	14,062	102,278	5,432	37,620	42,029	145,860	5,454	49,735	67,005	335,923

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Date	Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
23-Jul	51	51	19	305	16,320	116,930	8,241	60,986	108,467	345,576	9,406	76,693	142,453	600,490
24-Jul	43	43	21	332	13,503	93,325	7,558	56,902	71,480	236,907	7,261	60,632	99,823	448,098
25-Jul														
26-Jul														
27-Jul														
28-Jul														
29-Jul	71	71	46	742	14,885	100,065	9,778	76,483	174,858	635,087	13,116	113,796	212,683	926,173
30-Jul	43	43	24	333	9,041	59,893	3,612	27,299	74,288	250,778	8,661	75,238	95,626	413,541
31-Jul	50	50	32	395	10,493	72,877	5,421	42,145	158,150	503,446	8,492	71,064	182,588	689,927
1-Aug	54	54	25	390	8,750	57,008	2,910	21,955	137,180	497,557	12,703	110,916	161,568	687,826
2-Aug	47	47	17	304	7,024	46,188	3,520	26,267	167,451	533,004	8,247	72,076	186,259	677,839
3-Aug	50	50	8	148	9,431	56,540	4,881	36,844	147,511	505,056	5,580	44,016	167,411	642,604
4-Aug	38	38	4	54	8,951	55,162	1,967	14,828	85,842	314,019	13,273	107,874	110,037	491,937
5-Aug	47	47	18	321	11,727	75,614	5,419	41,337	151,517	570,595	10,626	97,988	179,307	785,855
6-Aug	51	51	22	388	11,178	72,896	7,702	59,276	145,901	496,777	8,193	68,368	172,996	697,705
7-Aug	30	30	2	26	4,727	32,387	688	5,045	38,272	139,239	2,576	22,914	46,265	199,611
8-Aug	33	33	18	225	4,395	30,919	939	7,115	64,656	225,296	5,806	48,331	75,814	311,886
9-Aug	29	29	8	106	2,702	19,156	634	4,709	41,356	147,299	5,833	50,655	50,533	221,925
10-Aug	38	38	20	242	5,499	36,728	3,972	31,623	122,661	443,536	7,790	67,097	139,942	579,226
11-Aug	43	43	23	342	3,400	23,069	2,021	15,719	90,992	325,470	6,314	52,314	102,750	416,914
12-Aug	31	31	27	374	4,423	30,655	2,778	19,523	61,617	187,153	2,418	19,178	71,263	256,883
13-Aug	40	40	15	150	4,190	29,724	3,015	23,512	44,264	139,788	8,658	48,428	60,142	241,602
14-Aug	39	39	20	217	6,791	48,475	2,557	20,245	45,635	144,221	1,856	15,780	56,859	228,938
15-Aug	40	40	47	582	8,009	57,243	4,688	38,675	44,463	158,211	2,328	19,837	59,535	274,548
16-Aug	34	34	22	266	6,536	44,693	2,920	22,706	26,315	98,726	1,582	12,212	37,375	178,603
17-Aug	18	18	0	0	4,637	34,088	221	1,960	5,757	21,555	228	1,809	10,843	59,412
18-Aug	20	20	3	64	5,619	40,512	84	598	2,734	10,573	72	529	8,512	52,276
19-Aug	23	23	0	0	4,544	32,647	640	4,562	2,158	8,389	243	1,732	7,585	47,330
20-Aug	24	24	0	0	6,960	48,697	1,907	15,374	22,499	82,754	1,143	8,894	32,509	155,719
21-Aug	33	33	6	120	8,773	64,627	4,074	33,685	9,254	33,784	1,151	10,165	23,258	142,381
22-Aug	20	20	5	49	5,507	39,680	696	5,435	9,607	36,637	560	4,130	16,375	85,931
23-Aug	26	26	3	39	4,602	31,859	2,312	22,128	3,398	12,039	415	3,762	10,730	69,827

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Date	Effort		Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
24-Aug	19	19	0	0	4,612	33,147	1,510	13,313	1,405	5,039	171	1,452	7,698	52,951
25-Aug	13	13	1	18	2,751	19,375	740	5,686	655	2,547	93	667	4,240	28,293
26-Aug	17	17	3	30	4,511	32,022	2,566	24,778	2,066	7,286	238	2,065	9,384	66,181
27-Aug	20	20	0	0	5,562	40,265	1,832	15,168	1,282	4,260	184	1,368	8,860	61,061
28-Aug	20	20	2	14	5,345	39,060	1,491	13,028	655	2,453	101	729	7,594	55,284
29-Aug	16	16	0	0	3,119	22,678	1,149	9,742	349	1,294	42	327	4,659	34,041
30-Aug	17	17	0	0	4,236	31,179	1,457	12,288	205	789	40	312	5,938	44,568
31-Aug	7	7	0	0	1,884	13,866	1,766	15,164	107	351	18	152	3,775	29,533
1-Sep	12	12	0	0	2,373	16,827	1,411	12,265	65	253	17	137	3,866	29,482
2-Sep	15	15	0	0	2,863	20,303	1,611	14,161	34	124	32	233	4,540	34,821
3-Sep	13	13	1	10	2,942	20,583	2,955	25,981	11	56	26	241	5,935	46,871
4-Sep	14	14	0	0	3,392	24,036	4,244	38,914	24	89	29	227	7,689	63,266
5-Sep	12	12	0	0	2,124	15,312	4,361	41,375	22	83	18	123	6,525	56,893
6-Sep	7	7	0	0	716	5,136	872	8,356	0	0	4	32	1,592	13,524
7-Sep	10	10	0	0	1,099	7,793	3,114	28,274	0	0	0	0	4,213	36,067
8-Sep	5	5	0	0	510	3,176	815	6,515	0	0	9	66	1,334	9,757
9-Sep	12	12	0	0	1,902	13,265	4,228	37,593	0	0	125	1,101	6,255	51,959
10-Sep	9	9	0	0	1,227	8,711	2,806	24,364	0	0	3	30	4,036	33,105
11-Sep	10	10	0	0	1,748	11,716	2,862	21,442	0	0	20	143	4,630	33,301
12-Sep	8	8	0	0	762	5,235	1,886	18,910	0	0	0	0	2,648	24,145
13-Sep								Fishery Closed						
14-Sep								Fishery Closed						
15-Sep	3	3	0	0	192	1,302	251	2,147	0	0	2	17	445	3,466
16-Sep	5	5	0	0	241	1,652	634	5,622	0	0	2	16	877	7,290
Total		2,212	970	14,808	682,104	4,699,165	161,536	1,290,277	2,389,958	8,192,350	209,325	1,726,108	3,443,893	15,922,708