

# **Kodiak Management Area Commercial Salmon Fishery Annual Management Report, 2020**

by

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**REVISED**

This report was revised in February 2024 to remove an unnecessary reference in Appendix E1 and restore a missing reference (Fuerst et al. 2019) in Appendix D1.

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September 2023

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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

***FISHERY MANAGEMENT REPORT NO. 23-09***

**KODIAK MANAGEMENT AREA COMMERCIAL SALMON FISHERY  
ANNUAL MANAGEMENT REPORT, 2020**

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# ABSTRACT

This report provides an overview of the 2020 Kodiak Management Area (KMA) salmon resources and stock status, as well as commercial, personal use, and subsistence salmon fisheries.

Sockeye salmon *Oncorhynchus nerka* escapements met or exceeded the established goals for Afognak, Buskin, Pasagshak, Saltery, early-run Karluk, late-run Karluk, early-run Ayakulik, late-run Ayakulik, Frazer, early-run Upper Station, and late-run Upper Station, but arial surveys were not able to document any escapement within the Malina River system. The Mainland District and Kodiak Archipelago pink salmon *O. gorbuscha* were exceeded, but the Kodiak Archipelago chum salmon *O. keta* escapement goals was not met in 2020. The Chinook salmon *O. tshawytscha* escapement goal was achieved in Karluk River but not in the Ayakulik River system, while coho salmon *O. kisutch* escapement goals were achieved in the Olds and Pasagshak but not in the Buskin and American River systems.

The 2020 KMA commercial salmon fishery began on June 9, with the last reported landing on October 7. A total of 277 permits were fished, consisting of 149 purse seine permits, 126 set gillnet permits, and 2 beach seine permits. The total commercial salmon harvest in the KMA, including cost-recovery harvest, but excluding test fishery harvest and commercially caught salmon retained for personal use, was 8,324 Chinook, 1,524,845 sockeye, 441,353 coho, 21,555,542 pink, and 368,901 chum salmon. The exvessel value for salmon harvested by all gear types totaled approximately \$28.1 million, which was below average for the KMA.

Keywords: Chinook, sockeye, coho, pink, chum, salmon, *Oncorhynchus*, Alaska Department of Fish and Game, AMR, exvessel value, Kodiak Management Area, KMA, BOF, commercial fisheries, subsistence, management plan, annual management report, purse seine, set gillnet, harvest, personal use

## INTRODUCTION

This report describes the Kodiak Management Area's (KMA) commercial salmon *Oncorhynchus* fisheries and harvest strategies in effect during the 2020 commercial salmon fishing season. A summary is also provided of the 2020 commercial salmon fishing season and historical commercial harvest, effort levels, escapement, subsistence, and commercial harvest retained for personal use. In addition, this report provides a comparison of salmon escapements as they pertain to the condition of salmon stocks within the KMA.

The KMA includes the waters of the western Gulf of Alaska surrounding the Kodiak Archipelago and that portion of the Alaska Peninsula bordering the Shelikof Strait between Cape Douglas and Kilokak Rocks (Figure 1). The archipelago is approximately 150 miles long, extending from northeast to southwest.

General information concerning escapements, harvest, and economic value is contained in the body of this report. More detail is provided in a series of appendices describing the KMA commercial fishing districts (Appendix A), fishing opportunity and management actions taken during the 2020 season (Appendix B), detailed information on specific fisheries (Appendices C–K), commercial salmon harvest by statistical week and management unit (Appendix L), and indexed peak salmon escapements by species and district (Appendix M). More detailed escapement data by stream are published in a separate escapement report (Fuerst 2021).

## SALMON RESOURCES

### SALMON PRODUCING STREAMS

Salmon migration or spawning has been documented in approximately 1,200 streams within the KMA (Johnson and Blossom 2019), but only 493 streams have been documented by Alaska Department of Fish and Game (ADF&G) to support yearly spawning populations of salmon (Table 1). There are Chinook salmon *O. tshawytscha* in 6 streams, sockeye salmon *O. nerka* in

60 streams, coho salmon *O. kisutch* in 254 streams, pink salmon *O. gorbuscha* in approximately 441 streams, and chum salmon *O. keta* in 215 streams. The majority of pink salmon streams in the KMA are located in the Kodiak Archipelago (Afognak, Northwest Kodiak, Southwest Kodiak, Alitak, Eastside Kodiak, and Northeast Kodiak Districts; Appendix A1), with 101 pink salmon streams located in the Mainland District (on the Alaska Peninsula). In years with very large returns, additional small streams are used by pink salmon.

## SUPPLEMENTAL PRODUCTION

There are 2 hatcheries located in the KMA that currently produce salmon to supplement natural salmon production. The Kodiak Regional Aquaculture Association (KRAA) operates both hatcheries: the Kitoi Bay Hatchery on the southeast side of Afognak Island, and Pillar Creek Hatchery (Figure 2). The Kitoi Bay Hatchery primarily produces pink salmon but also cultures sockeye, chum, and coho salmon.<sup>1</sup> KRAA outstocks (placing juvenile salmon in sites other than the hatchery) juvenile coho and sockeye salmon fry from the Kitoi Bay Hatchery, but the majority of hatchery returns are to be harvested in either the common property or cost-recovery fisheries, or to be used as broodstock. Pillar Creek Hatchery is located north of the City of Kodiak at Pillar Creek, which drains into Monashka Bay, and is used primarily as an incubation facility for sockeye salmon outstocking projects. Chinook and coho salmon are also reared at the Pillar Creek Hatchery for outstocking.<sup>2</sup>

The Kodiak Regional Planning Team (KRPT), a group consisting of representatives from ADF&G, KRAA, and the public, is mandated by law (AS 16.10.375–470) to develop and periodically update comprehensive plans for salmon production in the KMA. KRPT identified sockeye salmon as the priority species for supplemental production (KRPT 1992). The priority status given to sockeye salmon production resulted in remote egg takes, hatchery incubation, and juvenile outstocking by KRAA to enhance harvests, develop broodstocks, and restore depleted runs (Honold and Schrof 2001). Current enhancement efforts include “put-and-take” projects that involve placement of juvenile salmon at nursery sites where they will return as harvestable adults to systems with no spawning habitat or impassable stream access to spawning habitat.

KRPT summarized its production goals in an update to the Kodiak Regional Comprehensive Management Plan (KRPT 2011). The long-term goal of the plan is to increase the annual harvest of salmon (over and above KMA wild salmon harvest) by an additional 6,000 Chinook, 2,500,000 sockeye, 600,000 coho, 15,000,000 pink, and 1,500,000 chum salmon. The recent 10-year (2010–2019) average supplemental production has included an undetermined number of Chinook salmon and an estimated 316,179 sockeye, 78,499 coho, 4,219,666 pink, and 135,263 chum salmon (Table 2).

In 2020, sockeye salmon were outstocked in salt water at Telrod Cove and Ouzinkie Harbor as well as the freshwater systems of Spiridon, Ruth, and Jennifer Lakes to produce harvest opportunities in terminal fisheries near the outlets of these systems. Sockeye salmon were also outstocked in 2020 in Little Kitoi Lake and Bay for broodstock development. Coho salmon were outstocked into Crescent Lake (near the community of Port Lions), Katmai Lake (on Spruce Island

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<sup>1</sup> 2020 Annual Management Plan Kitoi Bay Hatchery. Unpublished. Available from Kodiak Regional Aquaculture Association, Kodiak, Alaska.

<sup>2</sup> 2020 Annual Management Plan Pillar Creek Hatchery. Unpublished. Available from Kodiak Regional Aquaculture Association, Kodiak, Alaska.

near the community of Ouzinkie), Jennifer Lake, Ruth Lake, and Kitoi Bay to provide subsistence and commercial harvest opportunities.

## **ESCAPEMENT GOALS AND MONITORING**

### **ESCAPEMENT GOALS**

In 2019, ADF&G staff reviewed previously established escapement goals within the KMA for each system and salmon species and recommended no change to 21 goals, modified 1 goal, and a change in designation from biological escapement to sustainable escapement goal for 3 goals (McKinley et al. 2019). Directors of Divisions of Commercial Fisheries and Sport Fish accepted these recommended changes to the escapement goals. In 2020, the KMA commercial salmon fisheries were managed to achieve escapement levels that were within the established ranges or, in some cases, exceeded lower-bound escapement goals. Established goals in the KMA include 2 for Chinook salmon, 12 for sockeye salmon, 4 for coho salmon, 2 for pink salmon, and 1 for chum salmon (Table 3).

### **ESCAPEMENT MONITORING**

In 2020, weirs were operated on the major systems of the KMA (Table 4, Figure 2; Fuerst 2021). The 4 largest systems with weirs are the Karluk River, Ayakulik River, South Olga Lakes (Upper Station), and Dog Salmon Creek. There are 5 smaller systems with weirs: Afognak River (Litnik), Sallery Lake, Pasagshak River, and Buskin River. On Dog Salmon Creek, a fish pass is operated upstream near the outlet of Frazer Lake. To avoid duplicates when summing escapement totals, the Dog Salmon weir counts are considered the total escapement for all species in this system except sockeye salmon. In some years, an appreciable number of sockeye salmon that pass the Dog Salmon weir do not ascend the fish pass to Frazer Lake. Sockeye salmon that do not ascend the fish pass to Frazer Lake are not likely to spawn successfully; therefore, the cumulative sockeye salmon count through the fish pass is considered the spawning escapement for the drainage.

The majority of sockeye salmon and Chinook salmon ascending rivers in the KMA were counted through weirs (Tables 3–5; Fuerst 2021). The timely nature of these data allowed for inseason stock-specific management. The remaining KMA sockeye salmon systems were monitored by aerial observation using small fixed-wing aircraft.

Most pink, chum, and coho salmon escapement estimates were collected from fixed-wing aircraft surveys of bays and streams. Coho salmon escapement estimates were incomplete due to poor weather conditions for conducting surveys and limited budgets. Foot surveys were also conducted on a few streams, primarily along the Kodiak road system. Aerial and foot survey counts are considered an index of the actual escapement and are utilized inseason to aid fishery management.

Peak indexed escapements were calculated postseason for all systems surveyed and, together with weir escapement data, were used to estimate an areawide escapement (Table 5). Peak indexed escapement for sockeye, chum, and coho salmon were defined as the highest daily aerial or foot survey count for each system for each year. For pink salmon, peak indexed escapement of each stream surveyed was estimated as the larger of either the highest daily survey count or the sum of 2 counts that were 30 or more days apart. This was done to compensate for the shorter stream life and more varied spawning dates of pink salmon. For Chinook salmon, peak indexed escapements were defined as the cumulative weir counts minus an estimate of upriver sport fishery harvest. Indexed peak salmon escapement estimates by species and district are listed in Appendix M1. Peak

escapement estimates by species for individual streams are published in a separate escapement report (Fuerst 2021).

## **STOCK STATUS**

### **Chinook Salmon**

In recent years, there has been concern regarding the low returns of Chinook salmon escapement in the Karluk and Ayakulik Rivers. In an attempt to increase escapement, regulation 5 AAC 18.395 provides ADF&G emergency order authority to prohibit retention of Chinook salmon 28 inches or greater in length by seine gear during fisheries in the Inner Karluk, Outer Karluk, Inner Ayakulik, and Outer Ayakulik Sections, and that portion of the Central Section south of the latitude of Cape Kuliuk when weir counts indicate inadequate escapement. Additionally, the Board of Fisheries (BOF) has required nonretention of Chinook salmon 28 inches or greater in length for the entire KMA from June 1 to July 5.

The 2020 Karluk River Chinook salmon season total weir count of 3,344 fish (Table 4; Fuerst 2021) was within the biological escapement goal (BEG) range of 3,000–6,000 fish (Table 3; McKinley et al. 2019). The inriver Chinook salmon sport fishery was closed on the Karluk River for the entire 2020 season; therefore, the estimated total escapement is the same as the weir count.

In 2020, a total of 2,402 Chinook salmon were counted through the Ayakulik River weir (Table 4; Fuerst 2021) which was below the escapement goal range of 4,800–8,400 fish (Table 3; McKinley et al. 2019). The inriver Chinook salmon sport fishery was closed on the Ayakulik River for the entire 2020 season; therefore, the estimated total escapement is the same as the weir count.

Dog Salmon Creek has a run of Chinook salmon originally introduced in 1970. A total of 43 were counted through the Dog Salmon weir in 2020 (Table 4; Fuerst 2021). There is no escapement goal established for this system, but the average cumulative weir count during the previous decade (2009–2019) was 106 fish (Fuerst 2021). Beginning in 2020, from January 1–July 25, a sport fishery is allowed on Dog Salmon Creek Chinook salmon. The bag and possession limit for Dog Salmon Chinook salmon 20 inches or greater in length is 2 per day, 2 in possession; Chinook salmon less than 20 inches in length is 10 per day, 10 in possession.

### **Sockeye Salmon**

Sockeye salmon counted through weirs accounted for about 97% (1,246,223 fish) of all documented sockeye salmon escapements in 2020 (Table 4). Additional escapements of 35,780 sockeye salmon were estimated by aerial and foot surveys in other systems such as Malina Creek, Ocean Beach, Kafia Lake, Uganik Lake, Little River Lake, Thorsheim Lake, Pauls Lake, and Swikshak Lagoon (Fuerst 2021). With the exception of Malina Creek, sockeye salmon escapements met or exceeded the escapement goals in river systems with established escapement goals within the KMA during the 2020 season (Table 3).

### **Coho Salmon**

Estimating coho salmon escapements to the KMA streams is difficult because of survey conditions and cost. Coho salmon often do not migrate into streams until late fall. Typically, during this time, heavy rains will cause reduced water clarity, which creates difficult survey conditions. Coho salmon escapement goals were reevaluated in 2019 (McKinley et al. 2019). Information adequate to establish escapement goals was only available for the American, Pasagshak, Buskin, and Olds



Rivers (Table 3). Escapements were estimated using a weir on the Buskin River and foot surveys on the American, Olds, and Pasagshak Rivers. In 2020, coho salmon escapement goals were achieved in the Olds and Pasagshak River systems while the Buskin and American Rivers did not meet their respective escapement goals (Table 3).

All salmon weirs were removed before the peak of the coho salmon run due to high water conditions and budget constraints.

### **Pink Salmon**

The majority of pink salmon streams were monitored by aerial surveys, although in 2020 approximately 44% (4,798,976 fish) of all KMA pink salmon escapement was counted through salmon weirs (Tables 4 and 5). The 2020 indexed pink salmon escapement of 9,429,396 fish in the Kodiak Island Archipelago was above the escapement goal range of 3,000,000–7,000,000 fish (Table 3; Schaberg et al. 2019). The Mainland District indexed pink salmon escapement of 1,484,000 fish was also above the escapement goal range of 250,000–1,000,000 fish (Table 3; McKinley et al. 2019). Districtwide peak escapements are shown in Appendix M1.

### **Chum Salmon**

The majority of the 2020 chum salmon escapement was estimated from aerial surveys, with approximately 2% (1,426 fish) counted through weirs (Tables 4 and 5). Estimating chum salmon escapements using aerial observations is more difficult than estimating escapements of other species of salmon. Chum salmon migrate into small sloughs and side creeks as well as into major river systems, and may also occupy more turbid systems, making observations difficult. Due to the remoteness of these systems, limited aerial surveys were conducted on several major KMA chum salmon systems along Kodiak Island’s west side and in the Mainland District. Pink salmon, usually in greater numbers, are often present in chum salmon systems and make counting the less numerous chum salmon difficult. Estimates based on aerial surveys are considered minimum estimates of actual escapement.

The chum salmon escapement for the Kodiak Archipelago of 72,100 did not meet the escapement goal of 101,000 fish (Table 3; McKinley et al. 2019). In 2020, aerial surveys were not conducted during the peak of chum salmon escapement in the majority of the KMA.

## **COMMERCIAL SALMON FISHING**

### **BACKGROUND**

Commercial salmon harvest records for the KMA date back to 1882 (Table 6; Roppel 1986). In 1974, a limited entry system was adopted by the State of Alaska that restricted the number of individuals allowed to participate in the commercial salmon fisheries (Rickey et al. 1975). In 2020, there were 587 commercial salmon fishing permits available in the KMA, of which 277 were fished (Table 7; CFEC 2020). This was well below the recent 10-year average (2010–2019) of 322 permits fished annually.

Inseason management of the KMA commercial salmon fishery is structured around 7 districts that are subdivided into 56 sections (Appendices A1–A8). These sections are occasionally subdivided further during the season to adjust fishing effort in response to unexpected salmon surpluses or deficits. Each section defines a traditional geographic harvest area managed for specific stocks or traditional fishing patterns. Divisions of sections, groups of sections, or districts that are opened

or closed together are referred to as management units. The BOF has also designated 5 special harvest areas (SHAs; 5 AAC 40.085) and 1 terminal harvest area (THA; 5 AAC 18.378) within the KMA to provide harvest opportunity of enhanced salmon runs (Jackson 2020).

## **GEAR TYPES**

In the KMA, there are restrictions on the types of gear that can be used in specific areas based on historical gear use patterns (5 AAC 18.330). The majority of the KMA is open to seine gear only. Both purse and beach seine gear are allowed to operate in the entire management area. Prior to statehood, the Alitak Bay, Moser Bay, and Olga Bay Sections of the Alitak District were designated as set gillnet only areas. In 1970, this regulation was amended such that the Alitak Bay, Moser Bay, and Olga Bay Sections remained set gillnet fisheries only through September 4, after which seine gear is legal in the entire Alitak District (5 AAC 18.330(d)(2)). At the January 2017 BOF meeting, a proposal was adopted that now allows set gillnet gear to be fished in the Humpy-Deadman and Cape Alitak Sections north of a line from Cape Trinity to Cape Alitak, after September 4. At the January 2020 BOF meeting, a proposal was adopted allowing the use of set gillnet gear in a small portion of Cape Hepburn in the Humpy-Deadman Section if the set gillnet sections of the Alitak District are closed and the Humpy-Deadman Section is open to commercial fishing.

Set gillnet and seine gear are allowed in the Central Section of the Northwest Kodiak District, making this the only section where all gear types may operate simultaneously for the entire season (5 AAC 18.330(b)).

## **BOARD OF FISHERIES—APPROVED REGULATORY MANAGEMENT PLANS**

To regulate Kodiak commercial salmon fisheries, ADF&G staff are guided by 10 KMA salmon management plans that describe biological and allocative constraints and were adopted into regulation by the BOF (5 AAC 18.360–369; Table 8). These plans reflect traditional fishing opportunities and the subsequent harvest allocations that have resulted between and within gear types participating in specific fisheries, and they were all in effect during the 2020 season. These plans are the *Alitak District Salmon Management Plan* (Appendix D), *Westside Kodiak Salmon Management Plan* (Appendix E), *Eastside Afognak Salmon Management Plan* (Appendix G), *Eastside Kodiak Salmon Management Plan* (Appendix I), *Mainland District Salmon Management Plan* (Appendix K), and the *North Afognak/Shuyak Island Salmon Management Plan* (Appendix J). The *Cape Igvak Salmon Management Plan* (Appendix C) and *North Shelikof Strait Sockeye Salmon Management Plan* (Appendix F) affect Kodiak purse seine permit holders' opportunity to target salmon migrating through the KMA to spawning systems in the Chignik and Cook Inlet management areas. The *Crescent Lake Coho Salmon Management Plan* and *Spiridon Bay Sockeye Salmon Management Plan* (Appendix H) provide for full utilization of enhanced stocks while protecting local wild stocks.

## **SALMON FORECASTS**

ADF&G forecasts salmon runs to inform industry and management staff of the likely magnitude of salmon returns. In addition, the length of the initial fishing periods for pink salmon are determined preseason based on the magnitude of the pink salmon forecast (Jackson 2020). Chinook, coho, pink, and chum salmon harvests are projected by broad geographic area, whereas forecasts are made for major individual sockeye salmon stocks. Projected harvests are summarized by fishery and geographic area (Table 9; Brenner et al. 2020).

The 2020 commercial Chinook salmon projected harvest was 6,700 fish (Table 9). The sockeye salmon harvest was forecasted to be 1,812,000 fish (Table 9). This projection included formal forecasts for the major sockeye salmon systems of Karluk, Ayakulik, Upper Station, and Dog Salmon, plus projected harvests from minor sockeye salmon systems, supplemental production (from enhancement projects), and the Cape Igvak Section. The 2020 projected KMA harvest also included 437,900 coho, 12,249,000 pink, and 809,600 chum salmon (Table 9). These projections included expected supplemental production of salmon from Kitoi Bay Hatchery and the Spiridon Bay enhancement projects.

## **2020 HARVEST STRATEGY**

### **Seasonal Abundance and Management Consideration**

Fluctuations in the abundance of each species of salmon within the KMA follow a general chronology (Figure 3). Generally, early-run sockeye salmon are present throughout June to mid-July, and late-run sockeye salmon are present from mid-July through September. Pink and chum salmon are present in July and August. Coho salmon are generally present from August through October. Commercial salmon fisheries are structured around the seasonal abundance of specific salmon species.

The *Kodiak Management Area Harvest Strategy for the 2020 Commercial Salmon Fishery*, published in May 2020, outlined the approaching fishing season (Jackson 2020). This document contains a synopsis of the expected chronology of the 2020 commercial salmon fisheries by species, expected escapements and harvests, an overview of pertinent regulations, and a summary of the management plans that guide management throughout the season.

Sockeye salmon are the primary target species by which fishing periods are scheduled from June through early July. However, some early-run chum salmon stocks may influence management in localized areas. Pink salmon are the primary species managed from early July through mid-August, with some areas managed specifically for local sockeye salmon or chum salmon stocks. Late-run sockeye, coho, and late-run chum salmon are the primary targeted species from mid-August through early September. Coho salmon are the primary species managed after early September.

### **Anticipated Commercial Fishery Openings**

The 2020 harvest strategy listed June 9 as the initial opening date of the early-run sockeye salmon fishery, although the fishery may open as early as June 1 if Karluk River escapement is strong (Figure 3; Jackson 2020). The areas expected to be opened included the Central and North Cape Sections of the Northwest Kodiak District. Results of the initial opening would be used to evaluate the actual run strength of the Karluk and Ayakulik early-run sockeye salmon stocks. The Foul Bay and Waterfall Bay SHAs and the Inner Kitoi Bay, Outer Kitoi Bay, Duck Bay, and Izhut Bay Sections were scheduled to open to continuous fishing on June 9. A commercial salmon fishing period was not likely to be announced for June 9 in the Alitak District due to the expected weak early-run sockeye salmon forecast for Dog Salmon and Upper Station. The first fishing period could occur as early as June 1 in the Cape Igvak Section if the Chignik River sockeye salmon early run is stronger than expected and run timing is normal.

An initial 33-hour opening was scheduled to start June 9 in the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, Zachar Bay, and Uyak Bay Sections of the Northwest Kodiak District to test run strength of the local chum and sockeye salmon returns. A second fishing period was scheduled for June 14, but it was to be concurrent with open fishing

periods in the Central and North Cape Sections. Additionally, more areas could be opened during the second period if sockeye salmon escapements to local minor systems were of sufficient strength. From June 16 to July 5, additional fishing time in Westside Kodiak fisheries was based solely on the strength of the sockeye and early chum salmon runs, as determined by escapements.

Initial fishing periods in the Inner and Outer Ayakulik Sections of the Southwest Kodiak District were solely dependent on sockeye salmon escapement into Ayakulik River. The preseason forecast (Brenner et al. 2020) projected a harvestable surplus which could be utilized during openings throughout the sockeye salmon run. Initial periods in the Southeast Afognak Section of the Afognak District were solely dependent on the sockeye salmon escapement into Afognak River.

Additional 33-hour fishing periods were scheduled for June 14 and June 21 for select systems with minor sockeye salmon returns. These included the Eastside Kodiak District; the Northwest Afognak, Pauls Bay, and Perenosa Bay Sections of the Afognak District; and the Big River and Outer Kukak Bay Sections of the Mainland District. These periods were intended to target sockeye salmon runs to Saltery, Ocean Beach, Thorsheim, Long Lagoon, Pauls, Portage, Swikshak, and Kafia Lake systems.

The initial fishing period targeting pink salmon was scheduled to begin July 6, and subsequent weekly fishing periods were projected for July and August (Jackson 2020). Based on the forecasted pink salmon run strength, the initial pink salmon opening was set at 81 hours in length, with the 3 subsequent fishing periods following in July also set at 81 hours per week. Adjustments in fishing time during late July and August in most areas is to be determined by the run strength of local pink and chum salmon runs and the strength of coho salmon runs in September.

## **2020 COMMERCIAL SALMON FISHERY SUMMARY**

The 2020 Kodiak commercial salmon fishery began on June 9 with a 57-hour fishing period in the Northwest Kodiak District and an indefinite period in terminal fisheries at Foul and Waterfall Bays and in the Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay Sections (Appendices B1 and B2). There was only one 57-hour fishing period allowed in the Outer Ayakulik Section in June targeting early-run sockeye salmon. The two 33-hour openings scheduled for June 14 and June 21 occurred as scheduled in the Eastside Kodiak District, the Northwest Afognak, Pauls Bay, and Perenosa Bay Sections of the Afognak District, and the Outer Kukak Bay and Big River sections of the Mainland District (Appendices B1 and B2). After the second 33-hour opener in June, the majority of the Northwest Kodiak District and Outer Karluk Section of the Southwest District remained closed until July 6. The only fishing period in June within the Alitak District began on June 27 due to low escapements of Upper Station early-run sockeye. There was no commercial fishing allowed in the Cape Igvak Section in June because the Chignik early sockeye salmon run was well below the forecast. In total, the Central and North Cape Sections of the Northwest Kodiak District were open for only 5 days in June.

The pink salmon fishery started as scheduled with an 81-hour weekly fishing period on July 6. The subsequent fishing period in July took place as scheduled, but the 4th weekly period was extended for an extra 24 hours on the Westside of Kodiak because it became apparent the pink salmon run was at or above the preseason forecast. The majority of the Mainland District opened as scheduled for four 57-hour fishing periods in July, except the Cape Igvak and Wide Bay Sections remained closed for the final 57-hour fishing period due to low observed pink and chum salmon escapements.

Beyond the anticipated fishery openings in the harvest strategy, additional fishing opportunities were provided by emergency order to facilitate the harvest of salmon determined to be in excess of escapement needs based on inseason analysis of abundance. A narrative of the management actions is detailed separately for each plan in Appendices C through K.

In 2020, the KMA commercial salmon harvest occurred over a 121-day period, with the last reported landing occurring on October 7 (Figure 3). A total of 14 buyer/locations purchased salmon within the KMA in 2020 (Table 10).

## **PERMIT HOLDER PARTICIPATION**

A total of 277 KMA commercial salmon fishing permit holders reported harvests in the common property fishery in 2020. This was 50 less permits than during the 2019 season and well below the recent 10-year average (2010–2019) of 322 permits (Table 7). Purse seine participation during the 2020 season (149 permits) was 27 permits less than the 2019 season and below the previous 10-year average (2010–2019) of 169 permits. Two beach seine permit holders were active during the 2020 season, which was slightly below the 10-year average (2010–2019) of 3 permits. Set gillnet participation in the 2020 KMA commercial salmon fishing season was made up of 126 permits, 22 less than the 2019 season and below the recent 10-year average (2010–2019) of 150 permits (Table 7).

Set gillnet permit participation statistics from 2008 to 2010 are not comparable to other years because from 2008 to 2010, individual set gillnet permit holders were allowed to own 2 permits and operate 2 sets of gear. During the years in which this regulation (5 AAC 18.331(j)) was in effect, ADF&G could not collect accurate effort statistics from the fish ticket data in the KMA set gillnet fishery because fish tickets did not document the number of dual permit holders fishing both sets of gear.

## **HARVEST**

A total of 23,898,965 salmon were harvested in the 2020 KMA commercial fisheries (common property and cost recovery combined), which was above the recent 10-year (2010–2019) average of 21,785,538 salmon (Table 6).

Not including cost recovery, purse seine permit holders caught 92% (21,919,897 fish) of the total number of salmon harvested, which included 7,847 Chinook, 1,217,579 sockeye, 389,397 coho, 19,988,817 pink, and 316,257 chum salmon in the common property fishery (Table 11). Set gillnet permit holders caught 8% (1,975,629 fish) of the salmon harvested, which included 477 Chinook, 304,267 sockeye, 51,956 coho, 1,566,342 pink, and 52,587 chum salmon in the common property fishery (Table 11). Beach seine permit holders harvest was confidential in 2020 due to only 2 permits fished (Table 11).

## **CHINOOK SALMON**

The Chinook salmon harvest of 8,324 fish was well below the 10-year average (2010–2019) of 12,413 fish (Table 6) and above the projected harvest of 6,700 fish (Table 9). The average weight of Chinook salmon sold in the common property fishery was 5.60 lb (Table 11). The majority of the Chinook salmon were harvested in the Eastside and Northwest Kodiak Districts in June and July. Chinook salmon harvests ranged from a low of 4 harvested in Northeast Kodiak District to a high of 2,699 fish harvested in the Northwest Kodiak District.

## **SOCKEYE SALMON**

The sockeye salmon harvest of 1,524,845 fish (Table 6) was below both the forecast of 1,812,000 fish (Table 9) and 10-year average (2010–2019) catch of 2,340,265 fish (Table 6). The average weight of sockeye salmon sold in the common property fishery was 4.60 lb (Table 11). Approximately 41% of the sockeye salmon harvest (630,368 fish) came from the Westside Kodiak fisheries<sup>3</sup> (Table 9). Approximately 17% of the sockeye salmon harvest (255,678 fish) came from the Alitak District (Table 9). Approximately 9% of the sockeye salmon harvest (133,580 fish) came from the Spiridon Bay sockeye salmon project fishery (Table 9). Approximately 16% of the sockeye salmon harvest (247,229 fish) came from the Ayakulik fishery (Table 9). There was no sockeye salmon harvest from the Cape Igvak fishery in 2020 (Table 9). The area near the Kitoi Bay Hatchery accounted for a sockeye salmon harvest of 18,008 fish, although an unknown portion of these fish were likely not of hatchery origin.

## **COHO SALMON**

The coho salmon harvest of 441,353 fish (Table 6) was similar to the forecast of 437,900 fish (Table 9) and above the 10-year average (2010–2019) of 320,521 fish (Table 6). The average weight of coho salmon sold in the common property fishery was 7.11 lb (Table 11). Westside Kodiak fisheries (excluding the Southwest Afognak Section) harvested approximately 150,664 coho salmon, similar to the forecast of 156,000 fish (Table 9). The Eastside/Northend Kodiak coho salmon harvest<sup>4</sup> of 73,852 fish was above the forecast of 67,000 fish (Table 9). The Afognak nonhatchery harvest of 32,799 coho salmon was below the forecast of 37,000 fish (Table 9). The coho salmon harvest attributed to the Kitoi Bay Hatchery was 124,092 fish, which was similar to the hatchery forecast of 129,900 fish (Table 9).

## **PINK SALMON**

The pink salmon harvest of 21,555,542 fish (Table 6) was well above the harvest forecast of 12,249,000 fish (Table 9) and above the recent 5 even-year average (2010–2018) of 9,111,896 fish (Table 6). The average pink salmon weight of 3.44 lb (Table 11) was above the 2019 average weight of 3.20 lb. The Afognak nonhatchery (wild stock) pink salmon harvest of 1,274,008 fish was well below the harvest projection of 2,222,000 fish. The Westside Kodiak fisheries harvest of 12,314,115 fish accounted for approximately 72% of the total wild KMA pink salmon harvest and was well above the Westside Kodiak forecast of 5,326,000 fish (Table 9). Pink salmon harvests in the Mainland District were also well above forecast with 973,486 fish harvested (forecast 231,000; Table 9). The fishery associated with the Kitoi Bay Hatchery accounted for 4,815,412 pink salmon, which was above the forecast of 2,325,000 fish (Table 9). There was no Kitoi Bay Hatchery cost-recovery fishery; therefore, all harvest of salmon within the vicinity of the hatchery was in the common property fishery for the 2020 season. Additional hatchery-bound pink salmon were likely harvested along the west side and east side of Kodiak and Afognak Islands; however, ADF&G does not have a stock separation program for pink salmon and is unable to differentiate stocks.

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<sup>3</sup> From the Southwest Afognak Section (251-10 & -20) and the Northwest Kodiak District (except the Spiridon and Settler Cove Special Harvest Areas), Inner and Outer Karluk sections, plus 50% of the Halibut Bay Section from June 21 to July 15 and 100% after July 31, minus the estimated contribution bound for the Spiridon SHA.

<sup>4</sup> From the Eastside Kodiak District (all 258s and 259-40 to 259-42), Northeast Kodiak District (259-21 to 259-25), and the North Cape, Anton Larsen Bay, Sharatin Bay, and Kizhuyak sections, plus part of the Central Section (259-35 to 259-39).

## **CHUM SALMON**

The chum salmon harvest of 368,901 fish (Table 6) was well below the forecast of 809,600 fish (Table 9) and well below the 10-year average (2010–2019) of 763,708 fish (Table 6). The average weight of the chum salmon harvested in the common property fishery was 6.80 lb (Table 11). Westside Kodiak fisheries harvested 113,820 chum salmon, which was well below the forecast of 275,000 fish (Table 9). The Eastside/Northend Kodiak fishery total harvest of 190,749 chum salmon was below the forecast of 254,000 fish. The Mainland District total harvest of 20,413 chum salmon was below the forecast of 120,000 fish (Table 9). The chum salmon harvest attributed to the Kitoi Bay Hatchery of 20,852 fish was well below the forecast of 86,600 fish (Table 9).

## **EXVESSEL VALUE**

The estimated total exvessel value of the 2020 KMA commercial salmon fishery (not including cost recovery) was \$28,104,638 (Table 11), which was well below the 10-year (2010–2019) average exvessel value of \$39,243,185 (Table 12). This exvessel value was based on inseason price estimates and does not reflect additional payments made to commercial fishers for dock deliveries, refrigerated or iced fish, or postseason adjustments. The average price per pound, by gear and species, can be found in Table 11.

Purse seine permit holders' gross earnings averaged \$168,662 in 2020 (2010–2019 average \$194,557; Table 12). Gillnet permit holders' gross earnings averaged \$23,493 (2010–2019 average \$42,187; Table 12). Beach seine permit holders' gross earnings were confidential in 2020 because less than 3 permits participated.

## **TEST FISHERY AND COST RECOVERY**

The ADF&G test fishery program harvested salmon in 2020 to help cover the cost of managing the commercial salmon fishery. A total of 5 Chinook, 11,312 sockeye, 1,168 coho, 92,891 pink, and 738 chum salmon were harvested under the ADF&G test fishery program with the department collecting \$103,894.

KRAA has conducted a cost-recovery program to pay for operational costs at the Kitoi Bay Hatchery from 1987 to 1989 and 2003 to 2019. In 2020, KRAA did not conduct a cost recovery program.

## **NONCOMMERCIAL SALMON HARVESTS**

### **SUBSISTENCE SALMON FISHERY**

Subsistence salmon permits are available to Alaska residents and are issued annually to obtain harvest data. Since 1989, Kodiak staff have mailed out permits, regulations, and a map showing closed-water areas to all permit holders who returned their harvest report from the previous year. Subsistence fishers are required to return their permits to ADF&G after the salmon season, listing areas fished by date and salmon harvest by species. With few restrictions, the entire KMA was open to subsistence salmon fishing in recent years. Only the freshwater systems of Afognak Island (which are relatively small, easily accessible, and at risk of overexploitation) and some areas near heavily exploited salmon systems were closed to subsistence salmon fishing by regulation (5 AAC 01.525).

Historically, the most utilized subsistence fishery areas are on the north end of Kodiak Island, the saltwater areas in proximity to the Buskin and Pasagshak Rivers, and the southeast side of Afognak Island in Afognak Bay targeting Afognak River fish. In 2020, 1,129 permit holders returned subsistence permits and reported a harvest of 20,089 salmon, including 111 Chinook, 16,303 sockeye, 2,789 coho, 736 pink, and 150 chum salmon (Table 13). Reported subsistence salmon harvests averaged 25,522 fish annually for the 10-year period 2010–2019 (Table 13). Sockeye salmon accounted for 84% of the recent 10-year average harvest (21,425 fish), followed by coho salmon at 11% (2,887 fish), pink salmon at 3% (874 fish), and both Chinook salmon (124 fish) and chum salmon (212 fish) at about 1% (Table 13).

## **RETENTION OF SALMON TAKEN IN COMMERCIAL FISHERIES**

In the KMA, commercial fishers are required to report the number of salmon taken but not sold on an ADF&G fish ticket at the time of landing (5 AAC 18.355(b)). Additionally, under *General Provisions* (5 AAC 39.010), “A person engaged in commercial fishing may retain finfish from lawfully taken commercial catch for that person’s own use, including for the use as bait in a commercial fishery. Finfish retained under this section may not be sold or bartered.”

In 2020, 61 permit holders reported retaining 13,011 salmon from their commercial harvest for “home pack” or personal use. This included 377 Chinook, 3,439 sockeye, 3,660 coho, 4,760 pink, and 775 chum salmon (Table 14).



## REFERENCES CITED

- ADF&G (Alaska Department of Fish and Game). 2020. Regulations of the Alaska Board of Fisheries for commercial salmon fishing in the Kodiak Area, 2020–2022. Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau.
- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage.
- CFEC (Commercial Fisheries Entry Commission). 2020. 2020 permit status, all fisheries. <https://www.cfec.state.ak.us/pstatus/14052020.htm> (Accessed March 1, 2021).
- Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21-04, Kodiak.
- Honnold, S. G., and S. T. Schrof. 2001. A summary of salmon enhancement and restoration in the Kodiak Management Area through 2001, a report to the Alaska Board of Fisheries. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K01-65, Kodiak.
- Jackson, J. 2020. Kodiak management area harvest strategy for the 2020 commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K20-08, Kodiak.
- Johnson, J., and B. Blossom. 2019. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Southwestern Region, effective June 1, 2019. Alaska Department of Fish and Game, Special Publication No. 19-05, Anchorage.
- KRPT (Kodiak Regional Planning Team). 1992. Kodiak regional comprehensive salmon plan, 1982–2002; Phase II, 2010–2030. Kodiak Regional Aquaculture association, Kodiak, Alaska.
- KRPT (Kodiak Regional Planning Team). 2011. Kodiak regional comprehensive salmon plan, Phase III Revision. Alaska Department of Fish and Game, Office of the Commissioner, Juneau.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.
- Rickey, R. A., C. J. Stovall, and H. Z. Hansen. 1975. Annual report Commercial Fisheries Entry Commission. Alaska Commercial Entry Commission, Juneau.
- Roppel, P. 1986. Salmon from Kodiak: a history of the salmon fishery of Kodiak Island, Alaska. Alaska Historic Commission, Studies in History No. 216, Anchorage.



## **TABLES AND FIGURES**

Table 1.—Estimated number of streams with documented salmon production by district, and species, in the Kodiak Management Area.

Management district	Number of streams <sup>a</sup>	Number of streams with each species <sup>b</sup>				
		Chinook	Sockeye	Coho	Pink	Chum
Afognak	125	0	25	96	104	16
Northwest Kodiak	70	0	5	33	69	29
Southwest Kodiak	11	2	4	6	11	6
Alitak	34	1	8	16	31	22
Eastside Kodiak	107	1	9	48	93	58
Northeast Kodiak	43	2	5	34	33	15
Mainland	103	0	7	21	101	70
Total	493	6	60	254	441	215

<sup>a</sup> The State of Alaska's Division of Sport Fish identifies over 1,200 streams in the Kodiak Management Area that have documented use by anadromous fish (Johnson and Blossom 2019). Many of these streams are very small and may only be used by pink salmon in years with very large returns.

<sup>b</sup> These estimates are based on current knowledge and are expected to change as more system-specific data are collected.

Table 2.—Estimated commercial harvest of salmon from Kodiak Regional Aquaculture Association projects in the Kodiak Management Area, 1994–2020.

Year	Number of salmon				
	Sockeye	Coho	Pink	Chum	Total
1994	277,884	46,984	2,051,375	10,799	2,387,042
1995	186,371	42,235	4,519,885	215,351	4,963,842
1996	487,900	57,200	979,143	14,189	1,538,432
1997	248,336	110,334	1,213,615	11,029	1,583,314
1998	315,109	148,333	6,272,029	38,118	6,773,589
1999	582,218	116,513	4,057,093	140,896	4,896,720
2000	287,387	133,238	3,659,698	303,783	4,384,106
2001	244,761	151,732	13,126,761	216,266	13,739,520
2002	565,422	209,259	6,696,774	88,724	7,560,179
2003	796,359	144,389	5,533,522	466,205	6,940,475
2004	266,150	128,291	3,962,421	239,610	4,596,472
2005	206,860	151,729	13,603,742	91,814	14,054,145
2006	113,869	168,205	4,158,109	177,548	4,617,731
2007	207,309	125,781	7,884,867	210,699	8,428,656
2008	316,197	120,366	2,118,392	93,025	2,647,980
2009	248,339	154,473	9,080,346	94,905	9,578,063
2010	311,323	116,647	3,292,029	191,998	3,911,997
2011	491,670	70,335	2,174,975	320,578	3,057,558
2012	324,108	49,791	2,971,123	218,794	3,563,816
2013	457,039	53,533	11,772,629	96,909	12,380,110
2014	377,800	231,987	5,779,624	45,621	6,435,032
2015	308,948	49,556	4,957,615	55,266	5,371,385
2016	231,588	12,282	1,122,800	72,890	1,439,560
2017	378,897	34,456	2,003,651	166,915	2,583,919
2018	180,339	131,068	3,199,981	166,324	3,677,712
2019	100,080	35,338	4,922,233	17,335	5,074,986
2020	152,971	126,682	4,852,761	20,862	5,153,276
Average 2010–2019	316,179	78,499	4,219,666	135,263	4,749,608

Source: ADF&G fish ticket summaries.

Note: Includes harvest from the Kitoi Bay Hatchery (Izhut Bay, Duck Bay, and Kitoi Bay Sections [statistical areas 252-30 to 252-32, and 252-35]). Special harvest area (SHA) harvests are from the returns to the Spiridon Lake project (in the Spiridon SHA, 254-50, and adjacent sections), the Foul Bay SHA (251-41), the Waterfall Bay SHA (251-84), and the Settler Cove SHA (259-35). Includes fish set aside for personal use and cost-recovery harvests.

Table 3.—Comparison of 2020 salmon peak escapements and escapement goals of index streams or districts, by species, in the Kodiak Management Area.

Species	System (or group of systems)	Stream number	Escapement goal		Escapement estimate <sup>a</sup>
			Lower	Upper	
Chinook					
	Karluk <sup>b</sup>	255-101	3,000	6,000	3,344
	Ayakulik <sup>b</sup>	256-201	4,800	8,400	2,402
Sockeye					
	Malina	251-105	1,000	10,000	0
	Afognak	252-342	20,000	50,000	24,614
	Karluk	255-101			
	Early run		150,000	250,000	157,411
	Late run		200,000	450,000	294,552
	Ayakulik	256-201			
	Early run		140,000	280,000	220,935
	Late run		60,000	120,000	81,660
	Upper Station	257-304			
	Early run		43,000	93,000	56,190
	Late run		120,000	265,000	195,147
	Frazer	257-403	75,000	170,000	181,384
	Buskin	259-211	5,000	8,000	7,741
	Pasagshak <sup>c</sup>	259-411	3,000		1,000
	Saltery	259-415	15,000	35,000	22,637
Coho					
	Buskin	259-211	4,700	9,600	630
	American	259-231	400		279
	Olds (Sid Olds)	259-242	500		794
	Pasagshak	259-411	1,200		1,939
Pink					
	Mainland District		250,000	1,000,000	1,484,000
	Kodiak Archipelago		3,000,000	7,000,000	9,429,396
Chum					
	Kodiak Archipelago		101,000		72,100

<sup>a</sup> Escapement estimates in this table are based on the best available information. Some estimates are weir counts. If weir counts are not available, either peak aerial or foot survey counts are depicted. In some cases (such as Malina), the escapement estimate available is a minimal count based on limited information.

<sup>b</sup> Escapement of Chinook salmon includes weir counts minus an estimate of sport fish harvest, if any, above the weir.

<sup>c</sup> Escapement estimated from aerial survey. Pasagshak River sockeye salmon weir count was 3,922 fish.

Table 4.—Fish weir installation and removal dates and cumulative salmon weir counts for systems with weirs in the Kodiak Management Area, 2020.

Weir location	2020 dates		Salmon species enumerated				
	Installed	Removed	Chinook	Sockeye	Coho	Pink	Chum
Karluk River <sup>a</sup>	24-May	16-Sep	3,344	451,993	15,365	3,141,952	154
Ayakulik River	29-May	20-Aug	2,402	302,595	1,035	1,102,753	70
Dog Salmon Creek <sup>b</sup>	24-May	11-Aug	43	181,384	544	399,802	1,166
Frazer Lake Fish Pass <sup>b</sup>	3-Jun	31-Aug	26	137,570	0	6,144	0
Upper Station (Olga Creek) <sup>c</sup>	21-May	10-Sep	1	251,337	11,139	8,064	0
Litnik (Afognak River) <sup>d</sup>	14-May	7-Aug	1	24,614	388	415	0
Buskin River	18-May	22-Sep	0	7,741	630	141,627	23
Lake Louise <sup>e</sup>	1-Jun	11-Sep	0	53	0	139	0
Saltery River <sup>f</sup>	17-Jun	17-Aug	3	22,637	6	4,324	0
Pasagshak River <sup>g</sup>	12-Jun	14-Aug	1	3,922	0	39	13
Totals			5,795	1,246,223	29,107	4,798,976	1,426

<sup>a</sup> Count includes post-weir estimate of 65,000 sockeye and 2,000 coho salmon.

<sup>b</sup> Some sockeye salmon that pass Dog Salmon weir are not counted at Frazer Lake fish pass due to mortality or failure to migrate up the fish pass and are not likely to spawn; the Frazer Lake fish pass count is considered the best escapement estimate of sockeye salmon, and the Dog Salmon sockeye salmon count is omitted from the totals. Dog Salmon total included a post-weir estimate of 5,500 sockeye, 500 coho, 310,000 pink, and 500 chum salmon.

<sup>c</sup> Upper Station total includes a post-weir estimate of 20,000 sockeye and 2,000 coho salmon.

<sup>d</sup> Litnik sockeye salmon total reflects 769 fish removed for Kodiak Regional Aquaculture Association (KRAA) hatchery broodstock.

<sup>e</sup> All species of salmon, with the exception of sockeye salmon, were already counted at the lower Buskin River weir and are not included in totals.

<sup>f</sup> Saltery system sockeye salmon total reflects 2,350 fish removed for KRAA hatchery broodstock.

<sup>g</sup> Pasagshak sockeye total includes post-weir estimate of 40 fish.

Table 5.—Indexed salmon escapements by species in the Kodiak Management Area, 1979–2020.

Year	Number of salmon					
	Chinook	Sockeye	Coho	Pink	Chum	Total
1979	14,445	1,417,055	94,155	3,063,724	613,325	5,202,704
1980	5,853	1,816,487	27,300	6,401,258	829,070	9,079,968
1981	15,657	1,391,588	61,150	3,190,677	741,978	5,401,050
1982	10,929	1,604,026	86,497	5,370,249	1,023,923	8,095,624
1983	27,447	1,296,118	100,913	2,095,104	825,564	4,345,146
1984	14,411	1,470,230	119,811	4,519,966	604,441	6,728,859
1985	13,891	2,557,363	193,224	3,209,450	723,402	6,697,330
1986	11,025	2,020,773	160,505	3,926,175	688,705	6,807,183
1987	23,669	1,544,688	169,554	3,018,455	514,763	5,271,129
1988	35,015	1,666,319	92,652	3,773,072	614,332	6,181,390
1989 <sup>a</sup>	26,131	3,021,252	165,387	14,645,387	1,432,609	19,290,766
1990	25,996	1,978,885	163,717	6,074,372	474,618	8,717,588
1991	27,306	2,416,005	259,850	4,317,610	887,736	7,908,507
1992	19,013	1,947,247	287,746	3,512,074	530,128	6,296,208
1993	22,122	1,679,319	159,998	4,291,581	234,381	6,387,401
1994	21,591	1,985,432	201,033	3,637,615	521,691	6,367,362
1995	30,843	1,814,290	231,205	10,498,232	469,856	13,044,426
1996	21,089	1,803,929	193,074	3,349,738	394,784	5,762,614
1997	28,534	1,725,309	235,039	3,260,029	459,293	5,708,204
1998	24,652	1,769,131	234,734	7,088,985	374,381	9,491,883
1999	26,872	2,112,665	133,398	4,081,686	882,257	7,236,878
2000	31,362	1,742,208	136,423	4,508,174	888,592	7,306,759
2001	18,753	1,417,344	250,552	3,390,773	557,925	5,635,347
2002	20,115	1,604,130	171,471	8,399,602	530,591	10,725,909
2003	25,548	2,159,040	122,824	5,096,762	380,523	7,784,697
2004	32,939	1,730,489	71,456	8,786,518	533,091	11,154,493
2005	13,488	1,515,916	106,363	4,039,674	244,255	5,919,696
2006	7,467	984,658	64,954	5,842,942	787,549	7,687,570
2007	8,441	1,260,920	49,848	2,550,653	294,342	4,164,204
2008	3,916	931,517	66,200	3,174,124	223,907	4,399,664
2009	4,053	1,118,444	109,190	5,138,889	293,145	6,663,721
2010	8,569	1,095,458	108,081	3,644,133	300,285	5,156,526

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Table 5.–Page 2 of 2.

Year	Number of salmon					
	Chinook	Sockeye	Coho	Pink	Chum	Total
2011	7,820	1,014,840	83,812	2,780,214	422,130	4,308,816
2012	8,110	1,302,793	119,672	5,524,374	341,334	7,296,283
2013	4,291	1,326,677	77,310	5,071,191	397,499	6,876,968
2014	2,139	1,641,574	85,000	2,987,932	245,920	4,962,565
2015	5,250	1,515,837	38,356	6,369,131	441,576	8,370,150
2016	8,126	1,285,363	65,837	1,764,586	202,485	3,326,397
2017	6,387	1,522,210	83,708	6,089,116	764,323	8,465,744
2018	5,378	1,501,385	186,696	5,154,742	345,745	7,193,946
2019	5,863	1,287,032	68,838	5,593,088	413,473	7,368,294
2020	5,794	1,282,003	66,836	10,913,396	212,820	12,480,849
<u>Average—previous 10 years:</u>						
2010–2019	6,193	1,349,317	91,731	4,497,851	387,477	6,332,569
Odd years, 2011–2019				5,180,548		
Even years, 2010–2018				3,815,153		
<u>Average—previous decades:</u>						
2000–2009	16,608	1,446,467	114,928	5,092,811	473,392	7,144,206
1990–1999	24,802	1,923,221	209,979	5,011,192	522,913	7,692,107
1980–1989 <sup>a</sup>	18,403	1,838,884	117,699	5,014,979	799,879	7,789,845
<u>Average—overall:</u>						
1979–2019	16,451	1,634,047	132,623	4,859,318	547,559	7,189,999

*Note:* Data include peak counts from aerial and foot surveys, plus end-of-season totals from systems with weirs, except upriver sport harvest of Chinook salmon, which is deducted from weir counts.

<sup>a</sup> Commercial fisheries were severely restricted in 1989 due to the M/V *Exxon Valdez* oil spill. Despite this, 1989 data are included in applicable averages.

Table 6.—Commercial salmon harvest by species in the Kodiak Management Area, 1882–2020.

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

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Table 6.—Page 2 of 4.

Year	Number of salmon <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1926	596	3,015,366	174,475	4,606,694	324,706	8,121,837
1927	4,358	1,155,202	151,548	5,297,305	417,956	7,026,369
1928	2,546	1,592,003	290,645	1,535,313	726,480	4,146,987
1929	3,200	712,126	144,226	6,108,402	1,057,662	8,025,616
1930	4,991	466,409	228,800	1,651,398	419,011	2,770,609
1931	1,541	1,183,074	170,075	6,839,906	183,737	8,378,333
1932	1,873	1,058,446	52,192	4,719,939	237,023	6,069,473
1933	1,140	1,428,373	91,428	6,573,660	536,935	8,631,536
1934	1,300	1,828,953	89,588	7,641,891	661,341	10,223,073
1935	1,393	1,613,519	76,849	10,780,612	381,753	12,854,126
1936	2,548	2,657,195	183,903	5,647,726	328,218	8,819,590
1937	1,257	1,881,304	164,902	16,787,150	346,238	19,180,851
1938	1,232	1,965,943	154,959	8,397,981	640,119	11,160,234
1939	2,272	1,786,445	112,171	11,741,218	641,693	14,283,799
1940	1,233	1,318,233	148,016	9,997,899	673,265	12,138,646
1941	2,571	1,730,201	199,515	7,601,531	444,521	9,978,339
1942	1,329	1,281,529	106,865	6,092,526	564,924	8,047,173
1943	1,133	1,990,557	59,661	12,479,608	454,205	14,985,164
1944	668	1,817,875	51,675	4,955,354	506,703	7,332,275
1945	2,021	2,041,090	60,122	9,044,544	559,332	11,707,109
1946	129	838,863	56,425	9,545,871	298,486	10,739,774
1947	99	993,394	76,230	8,856,666	294,518	10,220,907
1948	1,401	1,260,465	32,364	5,968,487	330,795	7,593,512
1949	851	892,336	53,737	4,927,779	699,548	6,574,251
1950	2,127	920,885	40,653	5,304,701	685,109	6,953,475
1951	2,402	467,875	48,792	2,100,377	483,057	3,102,503
1952	1,081	603,677	51,567	4,576,726	1,243,227	6,476,278
1953	2,991	317,150	41,681	5,174,645	547,574	6,084,041
1954	942	325,157	66,430	8,439,231	1,250,833	10,082,593
1955	2,428	164,482	34,582	10,794,164	482,425	11,478,081
1956	1,123	271,249	52,844	3,318,841	705,047	4,349,104
1957	1,030	234,253	34,995	4,716,482	1,208,472	6,195,232
1958	1,942	288,014	20,555	4,038,938	930,698	5,280,147
1959	1,837	330,087	14,512	1,967,058	733,784	3,047,278
1960	1,238	362,525	54,308	6,737,817	1,300,386	8,456,274
1961	864	407,979	28,579	3,926,023	518,935	4,882,380
1962	1,095	784,664	54,583	14,113,851	794,727	15,748,920
1963	286	407,040	57,011	5,480,158	305,061	6,249,556
1964	1,306	498,488	35,535	12,044,341	1,134,163	13,713,833
1965	786	346,237	26,672	2,886,831	431,340	3,691,866
1966	599	631,646	67,700	10,755,582	762,766	12,218,293
1967	1,753	308,756	10,354	187,813	226,681	735,357
1968	1,936	760,393	56,629	8,768,122	750,428	10,337,508
1969	2,469	591,481	48,759	12,500,823	534,933	13,678,465

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Table 6.–Page 3 of 4.

Year	Number of salmon <sup>a</sup>					Total
	Chinook	Sockeye	Coho	Pink	Chum	
1970	1,089	917,045	66,421	12,035,549	919,102	13,939,206
1971	920	478,479	22,844	4,334,492	1,541,444	6,378,179
1972	1,300	222,408	16,587	2,478,064	1,163,426	3,881,785
1973	800	167,341	3,573	511,708	317,921	1,001,343
1974	545	418,761	13,631	2,647,196	249,294	3,329,427
1975	101	136,418	23,659	294,280	84,431	3,187,410
1976	766	641,484	23,714	11,077,992	740,495	12,484,451
1977	585	623,468	27,920	6,252,405	1,072,313	7,976,691
1978	3,228	1,071,782	48,795	15,004,065	814,345	16,942,215
1979	1,907	630,756	140,629	11,285,809	358,336	12,417,437
1980	529	651,394	139,154	17,290,615	1,075,557	19,157,249
1981	1,418	1,288,949	121,544	10,336,747	1,345,313	13,093,971
1982	1,214	1,203,787	344,823	8,089,780	1,262,587	10,902,191
1983	3,839	1,231,989	157,612	4,603,371	1,085,165	7,081,976
1984	4,657	1,950,439	229,524	10,844,293	649,092	13,678,005
1985	4,970	1,842,731	284,166	7,334,825	430,757	9,897,449
1986	4,381	3,188,046	168,690	11,807,727	1,134,372	16,303,216
1987	4,613	1,794,224	192,433	4,920,365	680,994	7,592,629
1988	22,374	2,698,349	303,267	14,262,355	1,426,400	18,712,745
1989	106	1,289,511	2,599	6,825,124	19,972	8,137,312
1990	18,808	5,247,569	293,819	5,983,812	577,748	12,121,756
1991	22,234	5,702,754	324,860	16,642,836	1,029,057	23,721,741
1992	24,299	4,166,762	280,085	3,310,639	679,540	8,461,325
1993	41,029	4,377,523	313,467	34,019,390	588,328	39,339,737
1994	22,576	2,876,878	296,311	8,162,564	738,851	12,097,180
1995	18,704	4,487,568	307,795	42,849,294	1,522,786	49,186,147
1996	13,071	4,968,954	201,836	3,486,930	543,729	9,214,520
1997	18,728	2,503,423	381,005	11,035,023	520,264	14,458,443
1998	17,341	3,623,031	425,143	22,062,465	316,107	26,444,087
1999	18,299	4,650,738	296,979	11,898,307	913,817	17,778,140
2000	12,293	2,905,403	332,998	9,927,374	1,194,414	14,372,482
2001	23,827	2,657,601	407,977	19,567,052	1,053,691	23,710,148
2002	19,263	1,824,848	496,073	18,327,818	650,144	21,318,146
2003	18,531	4,041,886	339,457	14,065,615	1,151,757	19,617,246
2004	28,899	4,165,880	489,871	21,440,641	1,121,855	27,247,146
2005	14,411	3,047,142	396,030	30,139,434	477,416	34,074,433
2006	20,283	1,583,876	553,524	31,693,347	1,081,989	34,933,019
2007	17,222	2,012,564	356,063	24,809,213	728,912	27,923,974
2008	17,176	1,819,143	300,793	8,788,655	908,035	11,833,802
2009	7,219	1,726,971	288,744	27,648,943	955,808	30,627,685
2010	14,550	1,436,606	266,431	8,864,796	734,806	11,317,189
2011	18,454	2,266,651	188,474	16,642,402	823,202	19,939,183
2012	14,785	2,232,441	208,514	16,873,244	866,381	20,195,365

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Table 6.—Page 4 of 4.

Year	Number of salmon <sup>a</sup>					
	Chinook	Sockeye	Coho	Pink	Chum	Total
2013	34,028	2,573,757	268,799	28,192,164	794,054	31,862,802
2014	8,382	3,259,037	472,035	10,674,898	336,572	14,750,924
2015	8,087	3,097,344	396,145	33,024,992	770,539	37,297,107
2016	7,478	2,063,566	206,542	3,199,648	403,881	5,881,115
2017	7,101	2,476,321	366,397	27,104,625	1,891,381	31,845,825
2018	3,895	1,820,350	438,065	5,946,894	463,834	8,673,038
2019	7,371	2,176,572	393,812	32,962,644	552,431	36,092,830
2020	8,324	1,524,845	441,353	21,555,542	368,901	23,898,965
<u>Averages<sup>b</sup></u>						
2010–2019	12,413	2,340,265	320,521	18,348,631	763,708	21,785,538
Even years, 2010–2018				9,111,896		
Odd years, 2011–2019				27,585,365		
1882–2019	5,868	1,867,728	151,209	9,097,031	633,606	11,235,971
1949–2019	8,695	1,755,220	193,107	12,002,373	806,741	14,766,136
Even years, 1950–2018				10,353,700		
Odd years, 1949–2019				13,651,046		

*Source:* 1882–1947 data are from processors' case pack information. Data during 1948–2020 are from ADF&G fish ticket summaries and are considered more accurate than previous data.

*Note:* En dashes mean no reported harvest.

<sup>a</sup> Harvest numbers include cost-recovery harvest but do not include subsistence or test fishery catches or commercially caught fish retained for personal use.

<sup>b</sup> Averages do not include 1989. Commercial fisheries were severely limited due to the M/V *Exxon Valdez* oil spill.

Table 7.—Summary of limited entry permit activity in the commercial salmon fishery by gear type in the Kodiak Management Area, 1980–2020.

Year	Purse seine		Beach seine		Set gillnet		Total		
	Available	Fished	Available	Fished	Available	Fished	Available	Fished	Percent
1980	387	370	35	33	187	168	609	571	94
1981	387	325	35	30	187	169	609	524	86
1982	386	345	35	30	187	170	608	545	90
1983	383	342	35	27	188	174	606	543	90
1984	384	296	35	25	188	168	607	489	81
1985	384	270	35	21	188	169	607	460	76
1986	385	287	35	14	187	174	607	475	78
1987	386	298	35	18	188	173	609	489	80
1988	387	323	35	21	188	180	610	524	86
1989 <sup>a</sup>	387	5	35	1	189	87	611	93	15
1990	388	354	35	21	189	184	612	559	91
1991	388	348	35	17	189	185	612	550	90
1992	387	335	35	12	189	178	611	525	86
1993	387	324	36	9	190	176	613	509	83
1994	387	285	36	5	190	169	613	459	75
1995	386	312	36	8	189	173	611	493	81
1996	384	261	36	6	189	172	609	439	72
1997	384	261	36	5	188	174	608	440	72
1998	384	217	36	2	188	171	608	390	64
1999	384	220	36	4	188	173	608	397	65
2000	383	223	34	2	188	173	605	398	66
2001	384	182	34	0	188	172	606	354	58
2002	382	149	34	0	188	93	604	242	40
2003	377	143	33	0	188	161	598	304	51
2004	375	140	32	0	188	164	595	304	51
2005	374	135	31	0	188	165	593	300	51
2006	375	130	31	1	188	153	594	284	48
2007	377	140	31	3	188	157	596	300	50
2008 <sup>b</sup>	374	128	31	0	188	148	593	276	47
2009 <sup>b</sup>	374	157	31	1	188	132	593	290	49
2010 <sup>b</sup>	374	155	31	2	188	158	593	315	53
2011	376	175	31	7	188	157	595	339	57
2012	376	168	31	4	188	164	595	336	56
2013	376	170	31	3	188	152	595	325	55
2014	373	184	31	3	188	146	592	333	56

-continued-

Table 7.–Page 2 of 2.

Year	Purse seine		Beach seine		Set gillnet		Total		
	Available	Fished	Available	Fished	Available	Fished	Available	Fished	Percent
2015	372	180	31	1	188	154	591	335	57
2016	374	165	30	3	188	137	592	305	52
2017	375	163	30	3	188	143	593	309	52
2018	375	151	30	2	188	140	593	293	49
2019	372	176	30	3	188	148	590	327	55
2020	370	149	29	2	188	126	587	277	47
<u>Recent 10-year average:</u>									
2010–2019	374	169	31	3	188	150	593	322	54
<u>Average–previous decades:</u>									
2000–2009	378	153	32	1	188	152	598	305	51
1990–1999	386	292	36	9	189	176	611	476	78
1980–1988 <sup>a</sup>	385	317	35	24	188	172	608	513	84
<u>Average<sup>a</sup>–overall:</u>									
1980–2019	381	230	33	9	188	162	602	401	66

Source: Commercial Fisheries Entry Commission Summary Information and Reports (CFEC 2020) and ADF&G fish ticket summaries.

<sup>a</sup> Commercial fisheries were severely restricted in 1989 due to the M/V *Exxon Valdez* oil spill. 1989 data are not included in averages.

<sup>b</sup> From 2008 to 2010, a provision allowing set gillnet permit holders to fish 2 permits has resulted in the second permit not being recorded in the harvest data. This provision was discontinued before the 2011 season.

Table 8.—Alaska Board of Fisheries approved salmon management plans for the Kodiak Management Area, 2020.

Management plan	Year initiated	Management units affected	Dates in effect
Cape Igvak Salmon	1978	Cape Igvak Section Wide Bay Section	6/1–7/5
Alitak District Salmon	1987	Alitak District	6/1–10/31
Westside Kodiak Salmon	1990	NW Kodiak District SW Kodiak District SW Afognak Section	6/1–10/31
Crescent Lake Coho Salmon	1990	Special Harvest Area in the Central Section near Port Lions	7/15–10/31
North Shelikof Strait Sockeye Salmon	1991	SW Afognak Section NW Afognak Section Shuyak Island Section Big River Section Hollo Bay Section Inner and Outer Kukak Bay Sections Dakavak Bay Section Katmai Section Alinchak Bay Section Cape Igvak Section	7/6–8/1
Spiridon Bay Sockeye Salmon	1993	Special Harvest Area in Spiridon Bay Section	6/9–10/31
Eastside Afognak Salmon	1993	Southeast Afognak Section Kitoi Bay Section Izhut Bay Section Duck Bay Section Raspberry Strait Section	6/1–10/31
Eastside Kodiak Salmon	1995	Eastside Kodiak District NE Kodiak District	6/14–10/31
Afognak Shuyak Salmon	1995	Perenosa Bay Section Shuyak Island Section NW Afognak Section	6/1–10/31
Mainland District Salmon	1999	Mainland District	6/14–10/31



Table 9.—Projected versus actual 2020 commercial salmon harvest, by species and fishery, for the Kodiak Management Area.

	Number of salmon					
	Chinook	Sockeye	Coho	Pink	Chum	Total
Projected harvest 2020 <sup>a</sup>	6,700	1,812,000	437,900	12,249,000	809,600	15,315,200
Actual harvest 2020	8,324	1,524,845	441,353	21,823,300	368,901	24,166,723

Fishery	2020 Harvest	
	Projection <sup>b</sup>	Actual <sup>c</sup>
Early sockeye salmon fisheries (6/1–7/15, except Cape Igvak which is 6/1–7/5)		
Kitoi Bay Hatchery <sup>d</sup>	8,000	1,953
Cape Igvak <sup>e</sup>	0	0
Karluk <sup>f</sup>	74,000	73,914
Ayakulik <sup>g</sup>	41,000	72,623
Alitak District	132,000	67,490
Minor enhancement <sup>h</sup>	8,000	1,307
Spiridon <sup>i</sup>	42,000	75,640
Other <sup>j</sup>	190,000	112,577
Subtotal	495,000	405,504
Late sockeye salmon fisheries (7/16–10/31)		
Kitoi Bay Hatchery <sup>d</sup>	10,000	16,055
Karluk <sup>f</sup>	525,000	556,454
Ayakulik <sup>g</sup>	34,000	174,606
Alitak District	231,000	188,188
Spiridon <sup>i</sup>	73,000	57,940
Other <sup>j</sup>	445,000	126,098
Subtotal	1,318,000	1,119,341
Total sockeye	1,812,000	1,524,845
Coho salmon fisheries		
Kitoi Bay Hatchery <sup>d</sup>	129,900	124,092
Afognak (non-hatchery) <sup>k</sup>	37,000	32,799
Westside Kodiak <sup>l</sup>	156,000	150,664
Alitak District	17,000	32,516
Eastside/Northend Kodiak <sup>m</sup>	67,000	73,852
Mainland District	31,000	27,430
Subtotal	437,900	441,353

-continued-

Table 9.–Page 2 of 2.

Fishery	2020 Harvest	
	Projection <sup>b</sup>	Actual <sup>c</sup>
<b>Pink salmon fisheries</b>		
Kitoi Bay Hatchery <sup>d</sup>	2,325,000	4,815,412
Afognak (non-hatchery) <sup>k</sup>	2,222,000	1,274,008
Westside Kodiak <sup>l</sup>	5,326,000	12,314,115
Alitak District	1,276,000	1,289,345
Eastside/Northend Kodiak <sup>m</sup>	869,000	1,156,934
Mainland District	231,000	973,486
Subtotal/Wild stock pink salmon	9,924,000	17,007,888
Subtotal/all pink salmon	12,249,000	21,823,300
<b>Chum salmon fisheries</b>		
Kitoi Bay Hatchery <sup>d</sup>	86,600	20,852
Afognak (non-hatchery) <sup>k</sup>	25,000	14,283
Westside Kodiak <sup>l</sup>	275,000	113,820
Alitak District	49,000	8,784
Eastside/Northend Kodiak <sup>m</sup>	254,000	190,749
Mainland District	120,000	20,413
Subtotal	809,600	368,901
Grand total <sup>n</sup>	15,315,200	24,166,723

<sup>a</sup> Includes commercial harvest, test fisheries, and cost-recovery harvests, but does not include subsistence, sport, or personal use fisheries.

<sup>b</sup> Projected harvests for enhanced and major sockeye salmon systems are based on formal forecasts for those individual stocks (total run minus escapement); the projected harvest from minor sockeye salmon systems and other salmon species are based on less formal escapement-to-return relationships, environmental factors, and interspecies competition (Brenner et al. 2020).

<sup>c</sup> Actual harvest is the number of fish taken in a particular geographic area, not the catch assigned to an individual salmon stock.

<sup>d</sup> From the Duck Bay, Izhut Bay, and Inner and Outer Kitoi Bay Sections only.

<sup>e</sup> From the Cape Igvak Section. Early run is from the beginning of the season through June 26. Late run is from July 8 to July 25.

<sup>f</sup> From the Southwest Afognak Section, Northwest Kodiak District (except for Spiridon and Settler Cove Special Harvest Areas), Inner and Outer Karluk Sections, plus 50% of Halibut Bay Section from June 21 to July 15 and 100% after July 31 minus the estimated contribution from the Spiridon SHA. Includes the majority of Karluk sockeye salmon harvest.

<sup>g</sup> From the Outer and Inner Ayakulik Sections, plus 50% of Halibut Bay Section from June 21 to July 15 and 100% from July 16–31.

<sup>h</sup> From the Foul Bay, Waterfall Bay, and Settler Cove Special Harvest Areas.

<sup>i</sup> From the Spiridon Bay Special Harvest Area (Telrod Cove;254-50) and Spiridon Bay Section (254-41), plus an estimate of the Spiridon-bound sockeye salmon contributing to the Westside Kodiak fishery.

<sup>j</sup> Includes sockeye salmon harvested from minor systems at Inner and Outer Ugak Bay (Saltery), Buskin River, Perenosa Bay (Portage), Northwest Afognak (Thorsheim & Long Lagoon), Big River (Swikshak), and Outer Kukak Bay (Kafliia and Kuliuk) Sections and migrating fish of undetermined origin.

<sup>k</sup> From the Afognak District, except the Duck Bay, Izhut Bay, and Inner and Outer Kitoi Bay Sections.

<sup>l</sup> From the Southwest Kodiak District (all 255s and 256s) and the Northwest Kodiak District (all 253s and 254s), except for the North Cape, Anton Larsen Bay, Sharatin Bay, and Kizhuyak Bay Sections and part of the Central Section (259-30 to 259-39).

<sup>m</sup> From the Eastside Kodiak District (all 258s, and 259-40 to 259-42), Northeast Kodiak District (259-21 to 259-27, 259-10), and the North Cape, Anton Larsen Bay, Sharatin Bay and Kizhuyak Bay Sections, plus part of the Central Section (259-30 to 259-39)

<sup>n</sup> Includes the projected 2020 harvest of 6,700 Chinook salmon and the actual harvest of 8,324 Chinook salmon.

Table 10.—Commercial salmon buyers and processing plants active in the Kodiak Management Area, by geographic area and type, 2020.

Buyers/Processors	Shore-based processors			Floating processors		
	Kodiak City	Kodiak Borough	Other areas	Kodiak City	Kodiak Borough	Other areas
OBI Seafoods Larsen Bay		X				
Alaska Pacific Seafoods	X					
International Seafoods of Alaska	X					
OBI Seafoods Kodiak	X					
OBI Seafoods Alitak		X				
Adelaide Sage Fisheries		X				
Trap Six Setnet Site		X				
Trident Star of Kodiak	X					
Trident Cordova North			X			
Half Moon Bay Fisheries		X				
Kodiak Wildsource		X				
Tollef H Monson		X				
PetersonPlus Wild Alaskan Foods					X	
Kodiak Combos with Petersons Adventures					X	
Totals	5	7	1	0	2	0

Table 11.—Commercial salmon harvest and value, by gear and species, in the Kodiak Management Area, 2020.

	Number of salmon						
	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Purse seine							
Total # <sup>a</sup>	7,847	1,217,579	389,397	19,988,817	316,257	21,919,897	91.7
<u>Average weight (lb)</u>	<u>5.60</u>	<u>4.53</u>	<u>7.12</u>	<u>3.43</u>	<u>6.74</u>		
Total lb <sup>a</sup>	43,922	5,518,917	2,773,067	68,491,867	2,131,622	78,959,395	91.0
<u>Average \$/lb <sup>b</sup></u>	<u>\$0.43</u>	<u>\$1.00</u>	<u>\$0.52</u>	<u>\$0.26</u>	<u>\$0.26</u>		
Exvessel value (\$)	\$18,700.76	\$5,526,323.39	\$1,429,219.32	\$17,607,683.69	\$548,754.11	\$25,130,681.27	89.4
# of Permits =	149						
Average value (\$)	\$125.51	\$37,089.42	\$9,592.08	\$118,172.37	\$3,682.91	\$168,662.29	
Percent (%)	0.1	22.0	5.7	70.1	2.2	100.0	
Beach seine	Confidential in 2020						
Set gillnet							
Total # <sup>a</sup>	477	304,267	51,956	1,566,342	52,587	1,975,629	8.3
<u>Average weight (lb)</u>	<u>8.26</u>	<u>4.85</u>	<u>7.05</u>	<u>3.58</u>	<u>7.16</u>		
Total lb <sup>a</sup>	3,942	1,475,856	366,294	5,605,203	376,464	7,827,759	9.0
<u>Average \$/lb <sup>b</sup></u>	<u>\$1.50</u>	<u>\$0.96</u>	<u>\$0.55</u>	<u>\$0.22</u>	<u>\$0.25</u>		
Exvessel value (\$)	\$5,913.00	\$1,415,520.06	\$201,712.25	\$1,242,897.71	\$94,111.48	\$2,960,154.50	10.5
# of Permits =	126						
Average value (\$)	\$46.93	\$11,234.29	\$1,600.89	\$9,864.27	\$746.92	\$23,493.29	
Percent (%)	0.2	47.8	6.8	42.0	3.2	100.0	
Total all gear							
Total # <sup>a</sup>	8,324	1,524,845	441,353	21,555,542	368,901	23,898,965	100.0
<u>Average weight (lb)</u>	<u>5.75</u>	<u>4.60</u>	<u>7.11</u>	<u>3.44</u>	<u>6.80</u>		
Total lb <sup>a</sup>	47,864	7,008,142	3,139,361	74,098,310	2,508,461	86,802,138	100.0
<u>Average \$/lb <sup>b</sup></u>	<u>\$0.51</u>	<u>\$0.99</u>	<u>\$0.52</u>	<u>\$0.25</u>	<u>\$0.26</u>		
Exvessel value (\$)	\$24,613.76	\$6,955,230.38	\$1,630,931.57	\$18,850,900.18	\$642,962.00	\$28,104,637.88	100.0
% of Total value	0.1	24.7	5.8	67.1	2.3	100.0	

<sup>a</sup> Numbers and pounds of fish are derived from ADF&G fish ticket summaries. There were 7,467 fish tickets generated in 2020; each ticket represents a landing. Each gear type had the following landings: purse seine = 3,826; beach seine = 22; set gillnet = 3,619. Numbers do not include commercially harvested salmon retained for personal use or subsistence, sport fishery, or cost-recovery harvests.

<sup>b</sup> Figures for average price per pound are based on fish ticket information. Some fish tickets may not show price per pound figures. These average prices may not reflect payments made to fishermen for refrigerated or iced fish, dock deliveries, or postseason settlements.

Table 12.—Commercial salmon harvest, in numbers of fish, exvessel value of the harvest in dollars, and value of average permit holder harvest by gear type, in the Kodiak Management Area, 2006–2020.

Year	Total catch <sup>a</sup>	Total value <sup>b</sup>	Average exvessel value <sup>c</sup>		
			Purse seine	Gillnet	Beach seine
2006	32,595,862	\$24,820,388	\$150,038	\$33,926	<sup>d</sup>
2007	26,239,484	\$28,174,695	\$148,504	\$41,404	\$3,484
2008	10,127,638	\$25,806,691	\$143,819	\$43,202	\$0
2009	28,338,446	\$33,698,297	\$174,566	\$44,918	<sup>d</sup>
2010	10,291,590	\$24,269,085	\$130,009	\$25,728	<sup>d</sup>
2011	18,228,922	\$44,247,720	\$225,633	\$31,155	\$13,750
2012	19,032,409	\$44,988,487	\$219,164	\$52,084	\$16,367
2013	30,145,552	\$59,391,598	\$304,526	\$55,673	\$24,487
2014	13,995,803	\$42,806,102	\$183,451	\$61,504	\$23,796
2015	34,353,663	\$34,381,769	\$163,566	\$29,953	<sup>d</sup>
2016	5,031,781	\$14,509,665	\$66,243	\$25,972	\$7,111
2017	29,978,602	\$54,750,472	\$277,675	\$65,957	\$19,216
2018	8,618,297	\$27,263,475	\$147,748	\$35,118	<sup>d</sup>
2019	34,361,257	\$45,823,478	\$227,552	\$38,725	\$1,461
2020	23,898,965	\$28,104,638	\$168,662	\$23,493	<sup>d</sup>

Recent 10-year average

2010–2019	20,403,788	\$39,243,185	\$194,557	\$42,187	\$16,244
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<sup>a</sup> Number of fish. Does not include fish retained for personal use, ADF&G test fishery, or cost-recovery harvests.

<sup>b</sup> Exvessel value is based on inseason price estimates and do not include postseason adjustments or adjustments for inflation.

<sup>c</sup> Exvessel values are based on fish ticket information. These average values may not reflect payments made to harvesters for iced fish or dock deliveries and do not include any postseason adjustments or adjustments due to inflation.

<sup>d</sup> Confidential data.

Table 13.—Subsistence salmon fishery harvest from ADF&G permit reports, by species, for the Kodiak Management Area, 1991–2020.

Year	Permits issued	Permits returned	Percent returned	Number of salmon					
				Chinook	Sockeye	Coho	Pink	Chum	Total
1991	<sup>a</sup>	2,660	—	177	21,835	8,208	1,743	714	32,677
1992	<sup>a</sup>	2,614	—	318	20,684	8,643	1,646	643	31,934
1993	<sup>a</sup>	1,774	—	243	19,471	7,176	2,696	838	30,424
1994 <sup>b</sup>	2,550	1,518	60	205	17,962	7,491	1,758	440	27,856
1995 <sup>b</sup>	1,950	1,218	62	175	19,416	5,603	1,548	293	27,035
1996 <sup>b</sup>	1,567	1,413	90	253	28,287	5,117	1,125	381	35,163
1997 <sup>b</sup>	2,098	1,596	76	383	33,293	6,369	1,458	234	41,737
1998 <sup>b</sup>	1,845	1,048	57	350	20,459	5,348	1,412	214	27,783
1999 <sup>b</sup>	1,422	1,239	87	397	26,534	4,974	1,229	388	33,522
2000 <sup>b</sup>	1,710	1,442	84	351	31,667	6,383	977	375	39,753
2001 <sup>b</sup>	2,376	1,975	83	273	33,878	5,920	1,158	427	41,656
2002 <sup>b</sup>	2,276	2,051	90	588	33,844	6,175	1,665	350	42,622
2003 <sup>b</sup>	2,268	2,042	90	510	32,193	6,098	1,509	388	40,698
2004 <sup>b</sup>	2,239	2,050	92	379	30,503	5,857	1,403	261	38,403
2005 <sup>b</sup>	2,290	1,949	85	434	27,664	7,703	2,350	592	38,743
2006 <sup>b</sup>	2,096	1,911	91	280	22,985	6,640	1,827	441	32,173
2007 <sup>b</sup>	2,096	1,927	92	207	25,656	4,715	1,585	266	32,429
2008 <sup>b</sup>	2,037	1,738	85	159	21,852	4,570	1,180	186	27,947
2009 <sup>b</sup>	1,926	1,777	92	176	23,018	4,125	1,919	342	29,580
2010 <sup>b</sup>	2,022	1,890	93	158	22,037	4,188	1,263	273	27,919
2011 <sup>b</sup>	2,211	1,999	90	112	33,958	2,344	1,154	166	37,734
2012 <sup>b</sup>	2,121	1,871	88	54	24,074	2,920	1,154	166	28,368
2013 <sup>b</sup>	2,080	1,701	82	119	27,950	2,528	826	175	31,598
2014 <sup>b</sup>	1,996	1,686	84	184	22,845	3,916	572	185	27,702
2015 <sup>b</sup>	1,798	1,594	89	195	16,259	3,249	1,218	271	21,192
2016 <sup>b</sup>	1,782	1,579	89	135	21,257	2,267	727	160	24,546
2017 <sup>b</sup>	1,729	1,511	87	80	22,660	1,919	446	278	25,383
2018 <sup>b</sup>	1,573	1,319	84	97	13,787	3,174	449	190	17,697
2019 <sup>b</sup>	1,391	1,208	87	104	9,425	2,366	927	257	13,079
2020 <sup>b</sup>	1,324	1,129	85	111	16,303	2,789	736	150	20,089
<u>Recent 10-year average</u>									
2010–2019	1,870	1,636	87	124	21,425	2,887	874	212	25,522
Species composition by percent				0%	84%	11%	3%	1%	100%
<u>Averages - previous decades:</u>									
2000–2009	2,131	1,886	88	336	28,326	5,819	1,557	363	36,400
1990–1999	1,905	1,742	91	263	22,590	6,756	1,622	480	31,448
1980–1988	1,259	1,076	85	119	14,481	6,038	2,450	707	23,677
1970–1979	973	618	64	81	8,808	3,770	3,024	453	16,053
<u>Average - overall:</u>									
1978–2019	1,763	1,550	81	206	21,253	5,280	1,674	435	28,848

Source: 1991 to 2020 data is from the ADF&G Kodiak Office subsistence permit database.

<sup>a</sup> Permits were mailed to all previous applicants, totaling approximately 2,800. Many were returned as undeliverable. Those names were removed from subsequent mailing lists. Accurate counts of the number of permits issued were not kept.

<sup>b</sup> In 1994, the salmon and shellfish subsistence permitting programs were merged. Since then, the total number of permits includes permits mailed to all previous permit holders and permits issued by ADF&G staff in the City of Kodiak and Kodiak Island villages.

Table 14.—Retention of salmon taken in commercial salmon fisheries but not sold, by species, for the Kodiak Management Area, 1997–2020.

Year	Permits	Landings	Number of salmon <sup>a</sup>					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1997	10	10	7	678	91	6	2	784
1998	4	5	8	26	9	0	0	43
1999 <sup>b</sup>								
2000 <sup>b</sup>								
2001	9	14	16	465	1,215	0	33	1,729
2002	33	56	57	5,447	7,542	566	0	13,612
2003 <sup>c</sup>	36	87	72	11,025	12,310	1,492	86	24,985
2004	13	39	8	3,052	290	253	10	3,613
2005	16	37	54	4,432	811	4,385	11	9,693
2006	31	52	100	1,442	2,786	1,140	128	5,596
2007	13	25	26	1,577	520	2,246	8	4,377
2008	19	40	76	2,513	681	0	0	3,270
2009	23	38	49	1,393	936	1,002	6	3,386
2010	42	75	160	2,330	2,976	6,267	15	11,748
2011	57	117	161	1,314	2,009	6,390	67	9,941
2012	57	137	195	4,116	1,971	1,413	31	7,726
2013	64	152	592	3,032	1,164	5,721	1,067	11,576
2014	77	159	189	3,371	2,230	3,035	18	8,843
2015	70	155	293	3,231	1,551	4,008	740	9,823
2016	63	133	239	3,270	1,175	571	172	5,427
2017	71	180	313	3,928	4,125	4,902	100	13,368
2018	75	165	92	3,802	2,630	214	36	6,774
2019	80	170	369	2,897	2,985	7,910	280	14,441
2020	61	112	377	3,439	3,660	4,760	775	13,011
10-year Average								
2010–2019	66	144	260	3,129	2,282	4,043	253	9,967

Source: ADF&G fish ticket database.

<sup>a</sup> This is the number of salmon taken by Commercial Fisheries Entry Commission (CFEC) permit holders with commercial gear during commercial fishing periods that was not sold but instead was kept for the crew's own use. Prior to 1997 this data was not recorded on ADF&G fish tickets.

<sup>b</sup> Confidential data.

<sup>c</sup> In 2003, there was concern that salmon taken as home pack were being custom-processed for later sale for consumptive use. In response, the Alaska Board of Fisheries adopted a regulation clearly stating that these fish were not to be sold or bartered (5 AAC 39.010).

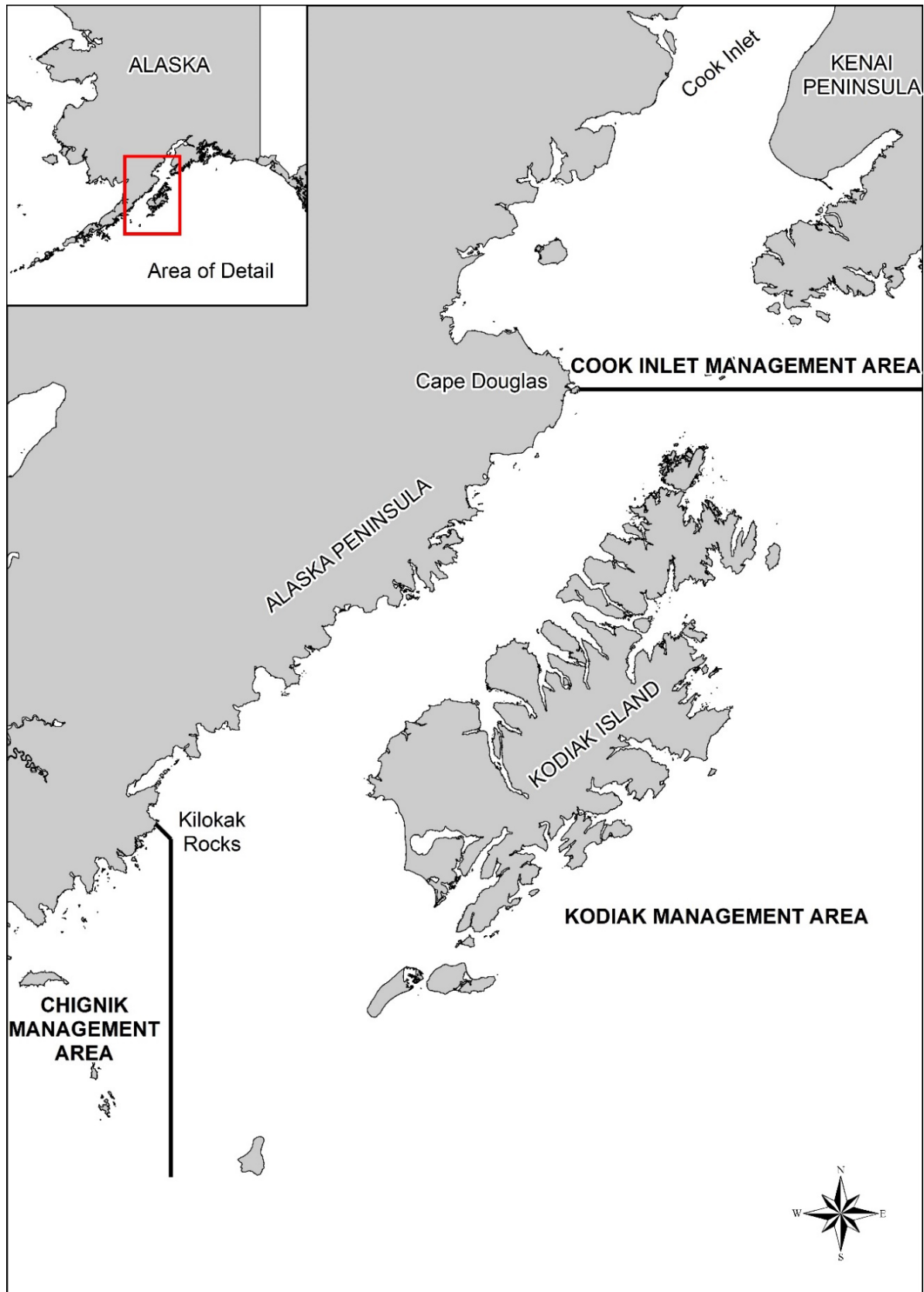


Figure 1.—Map of the Kodiak Management Area and neighboring management areas, 2020.



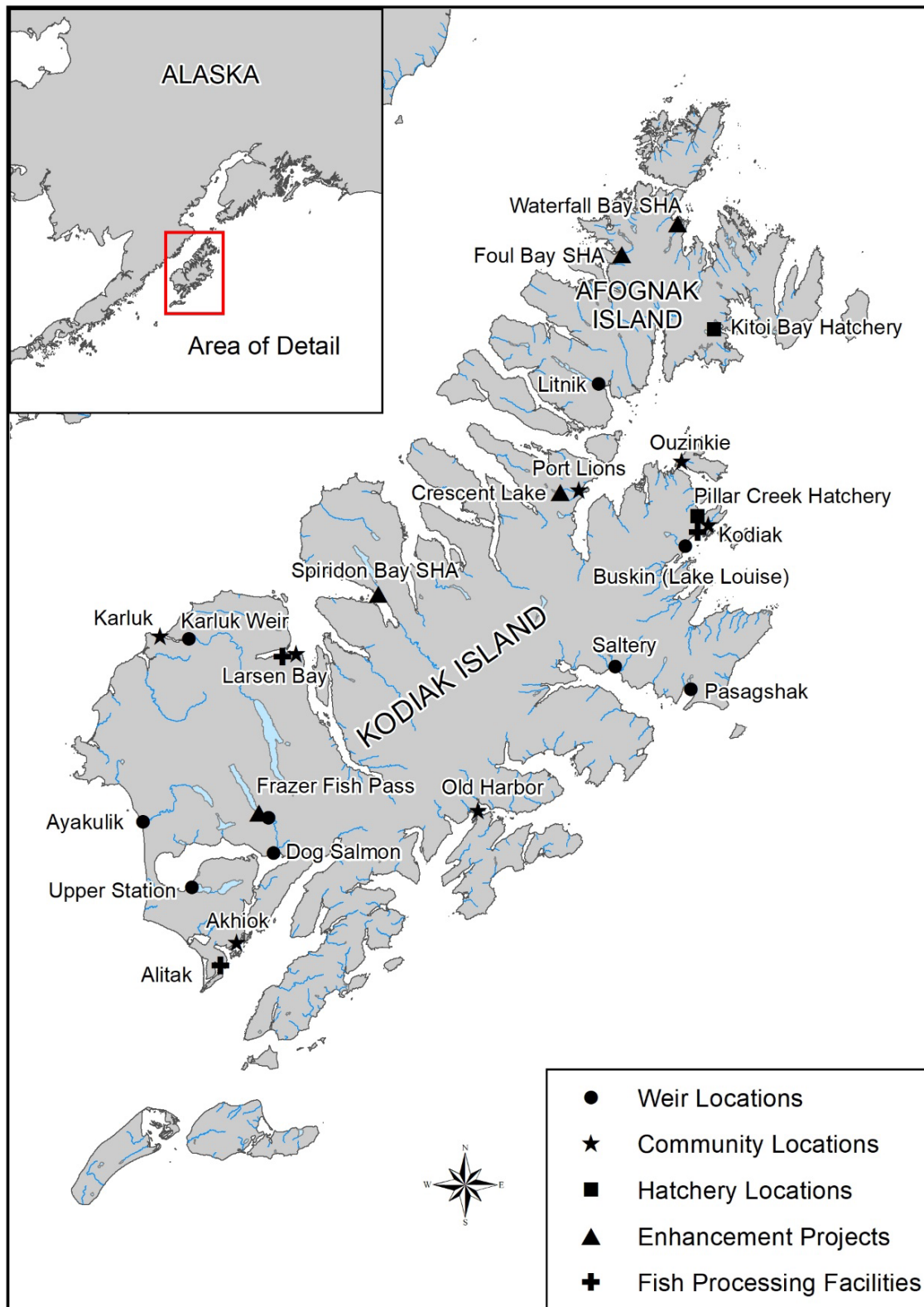


Figure 2.—Map of the Kodiak Archipelago showing communities, fish processing facilities, sockeye salmon enhancement projects, and weir and hatchery locations in the Kodiak Management Area, 2020.

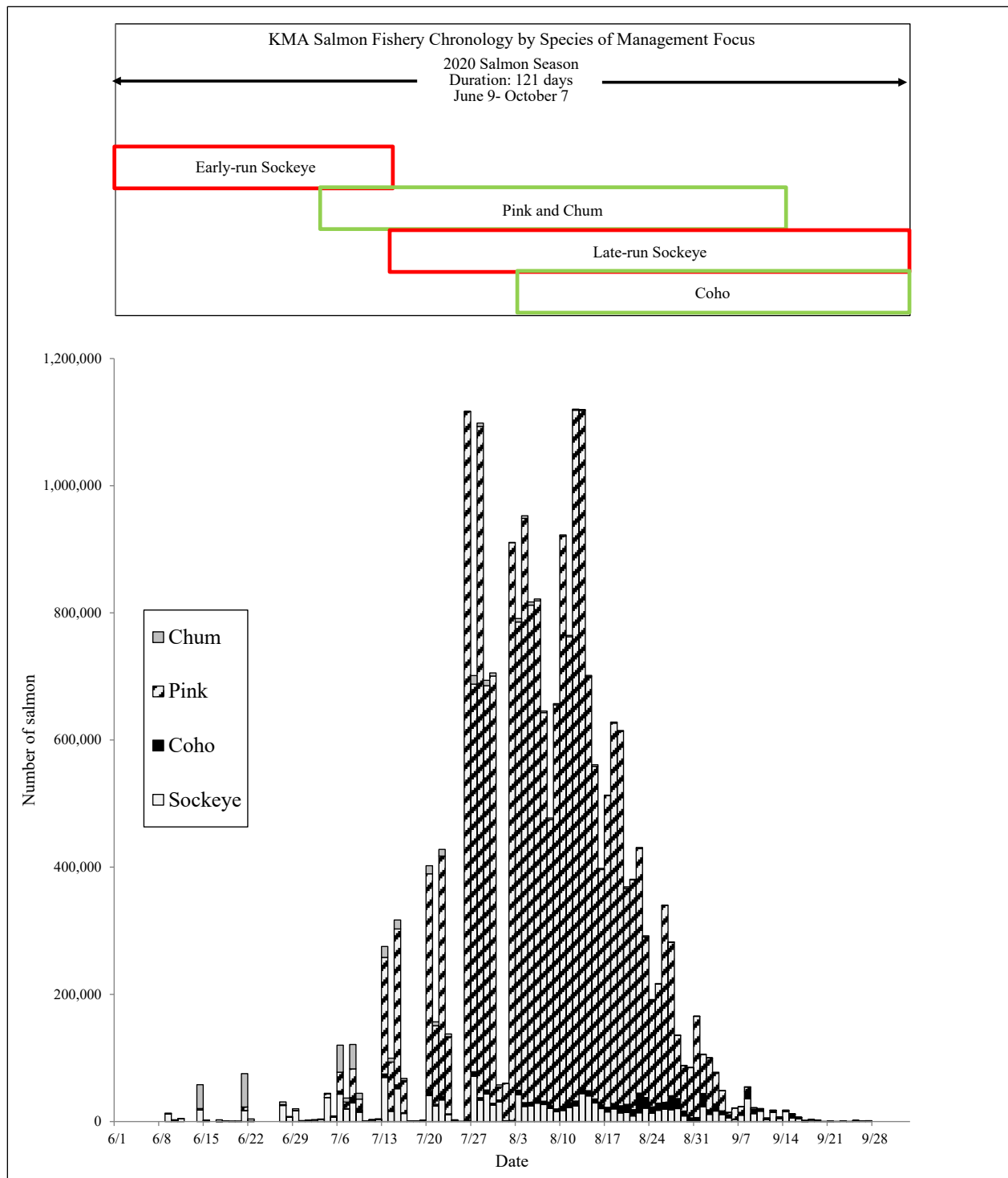
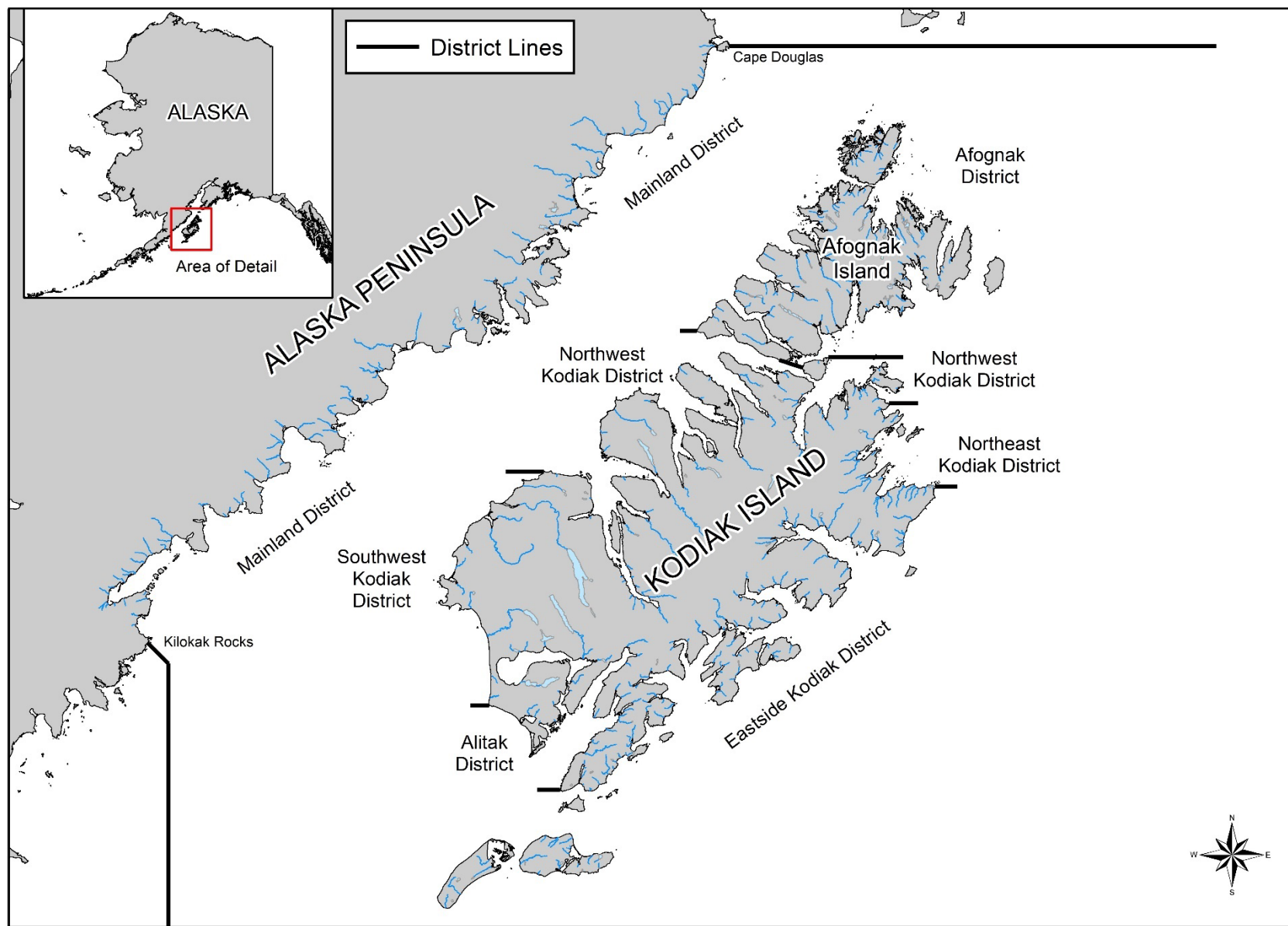


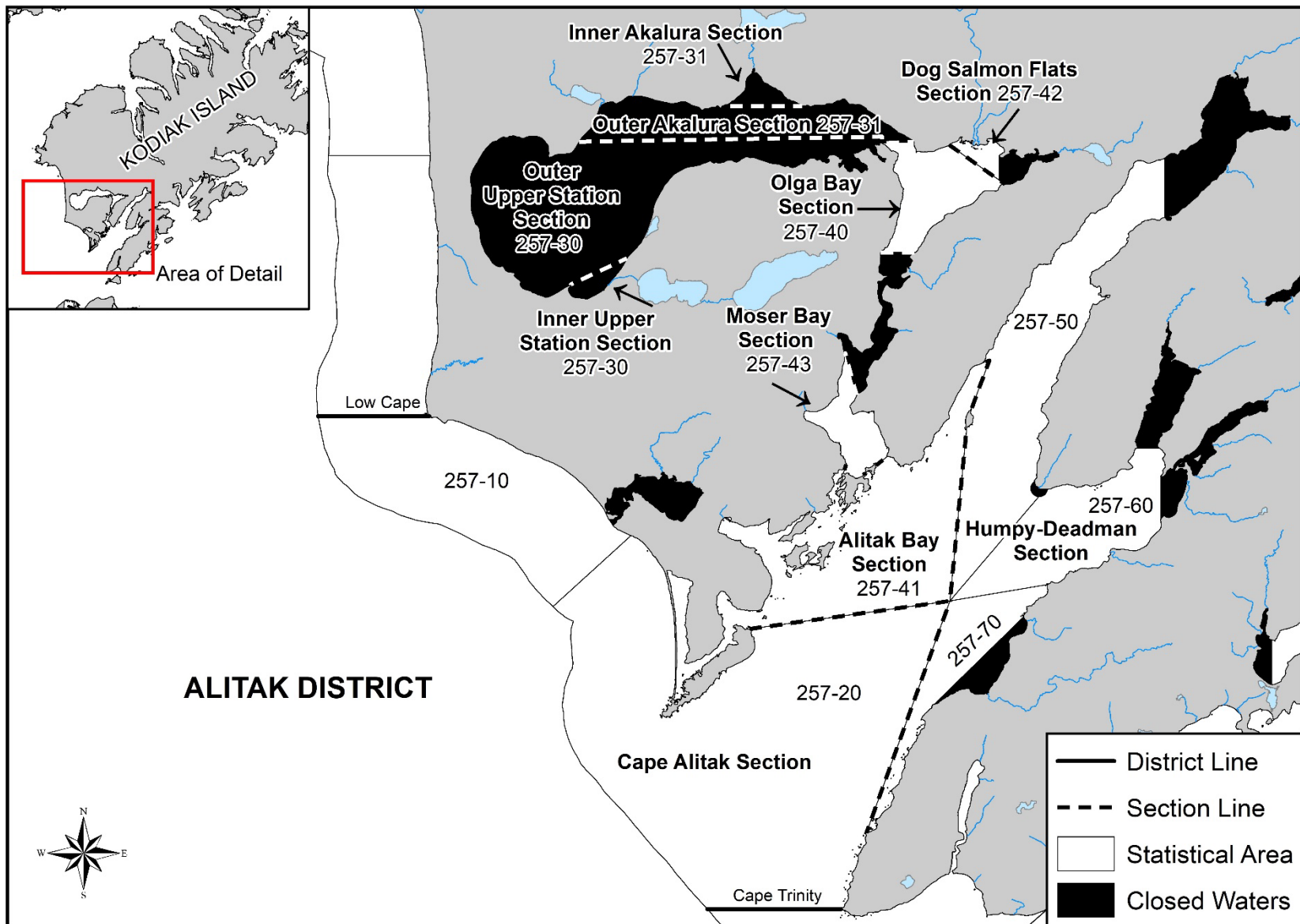
Figure 3.—Commercial salmon fishery chronology and daily harvest by date and species of management focus, Kodiak Management Area, 2020.

## **APPENDIX A. MAPS OF FISHING DISTRICTS**

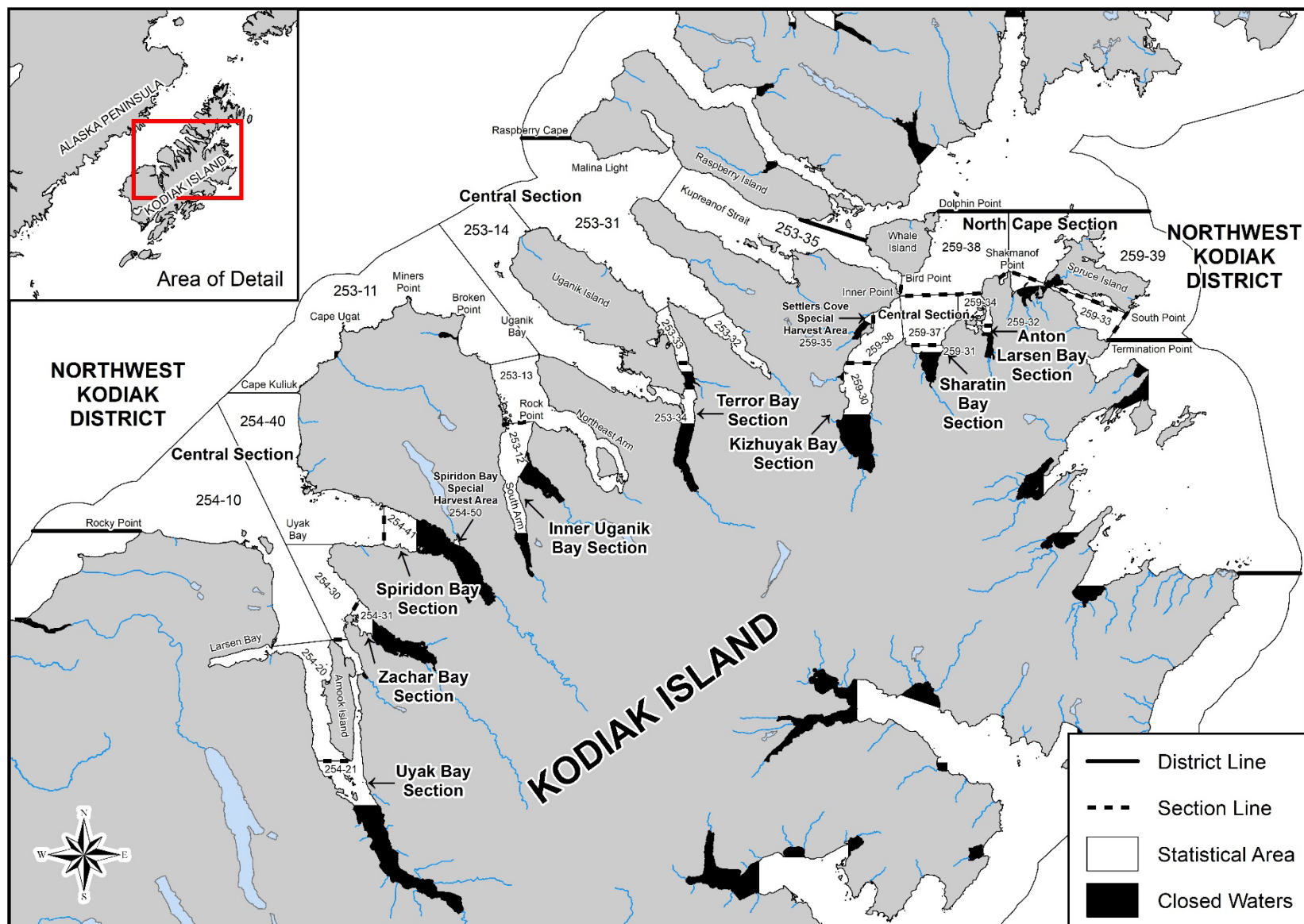
Appendix A1.—Map of the Kodiak Management Area commercial salmon fishing districts.



Appendix A2.—Map of the Alitak District commercial salmon fishing sections and statistical areas.

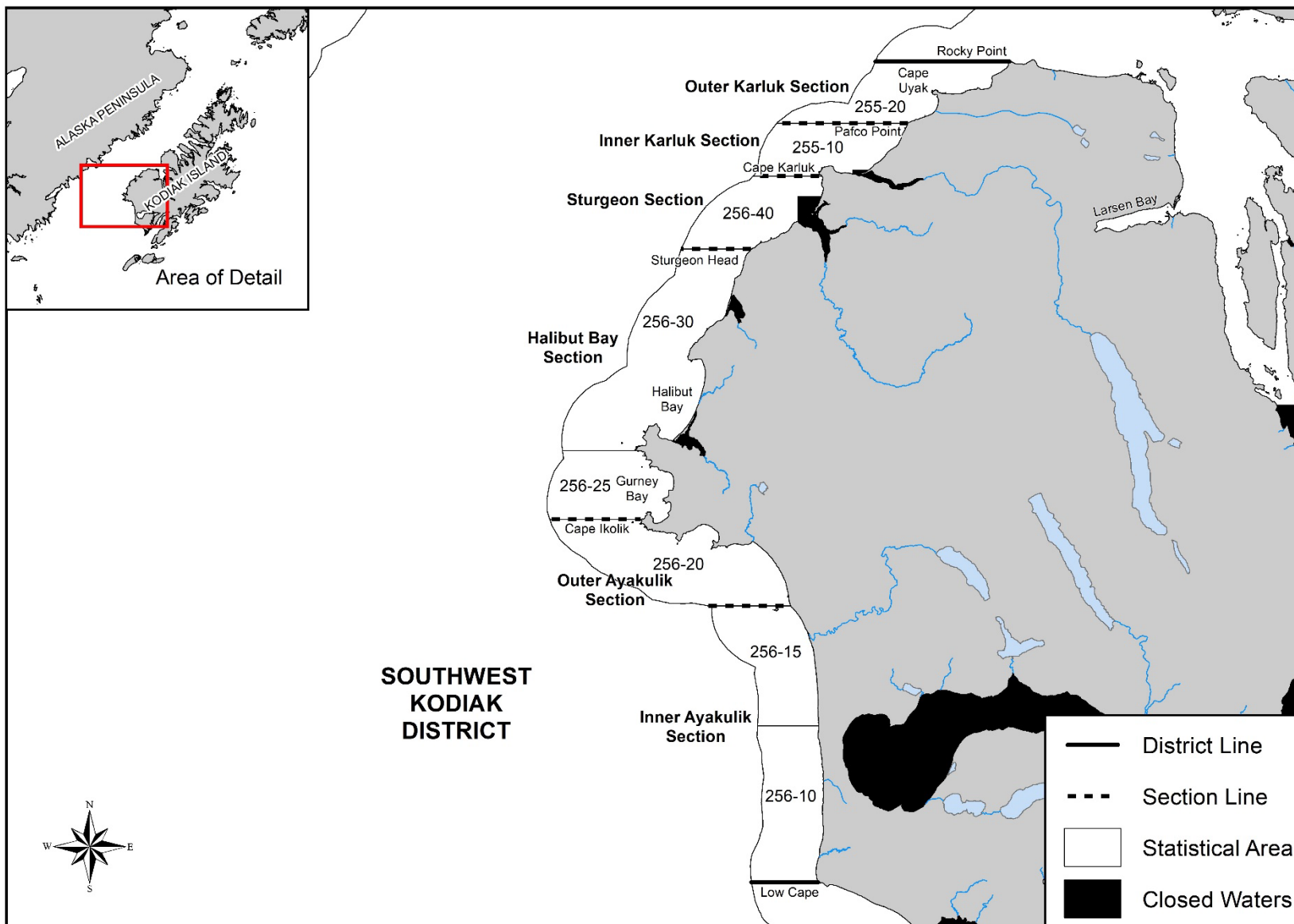


Appendix A3.—Map of the Northwest Kodiak District commercial salmon fishing sections and statistical areas.

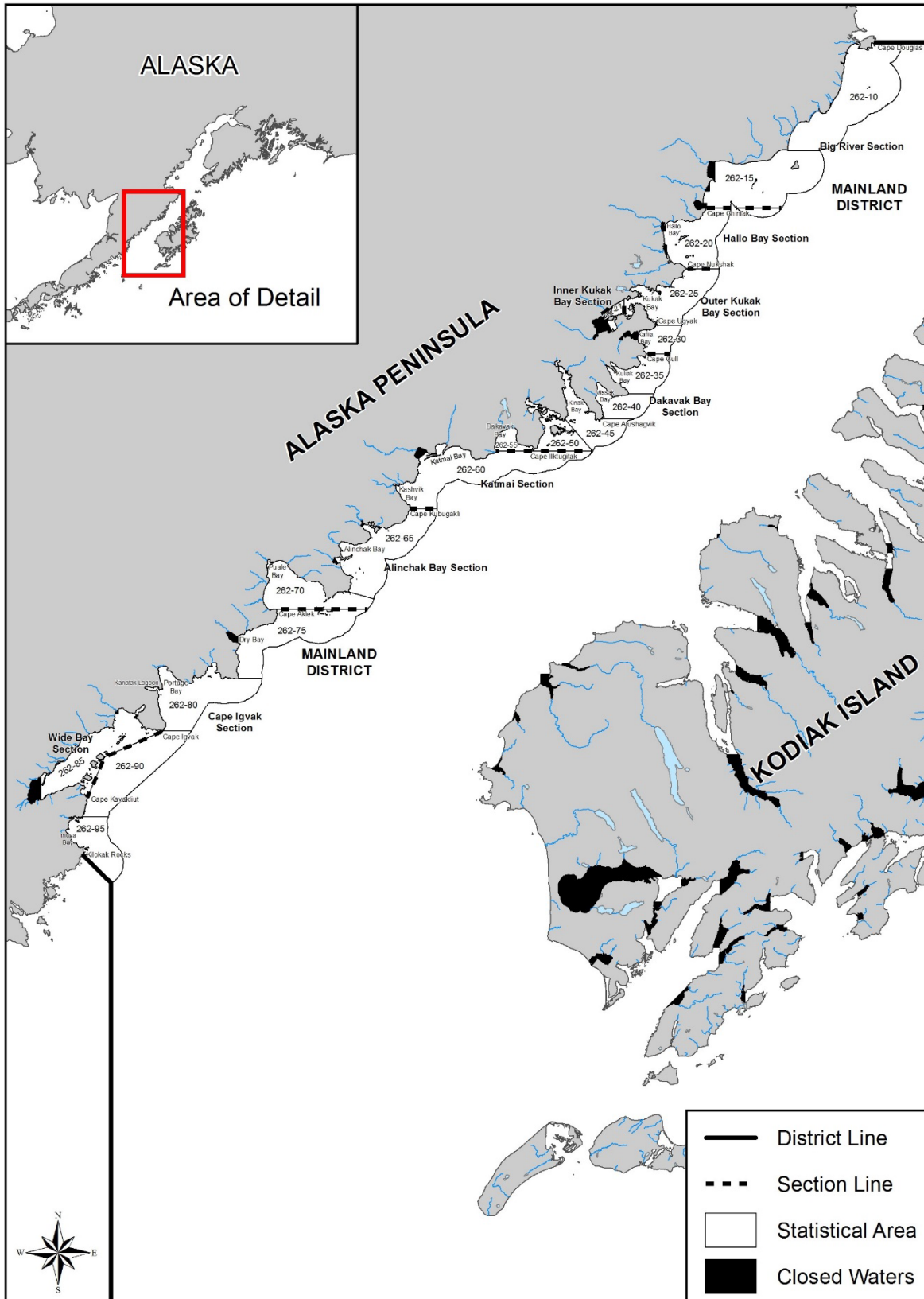




Appendix A4.—Map of the Southwest Kodiak District commercial salmon fishing sections and statistical areas.

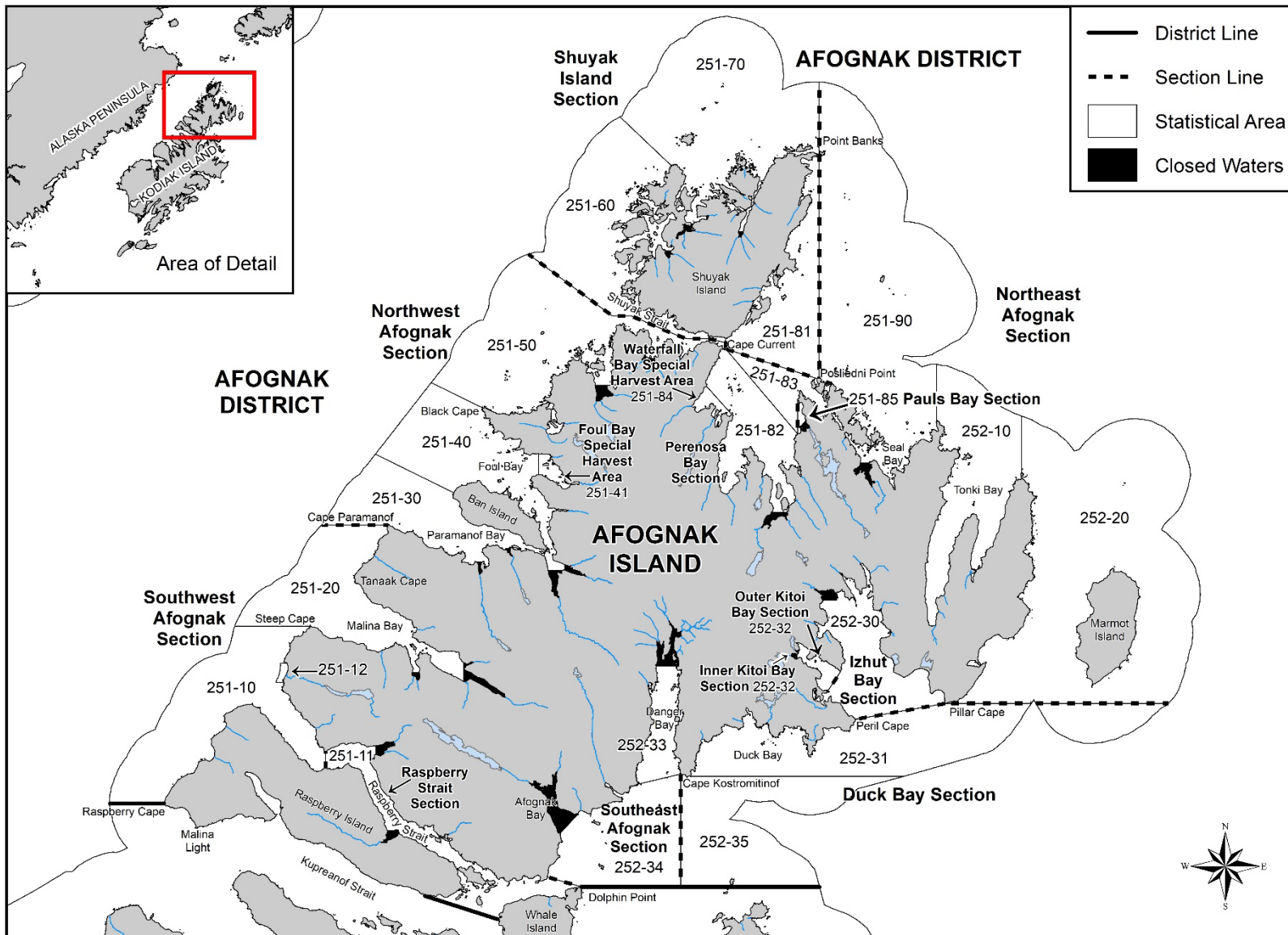


Appendix A5.—Map of the Mainland District commercial salmon fishing sections and statistical areas.

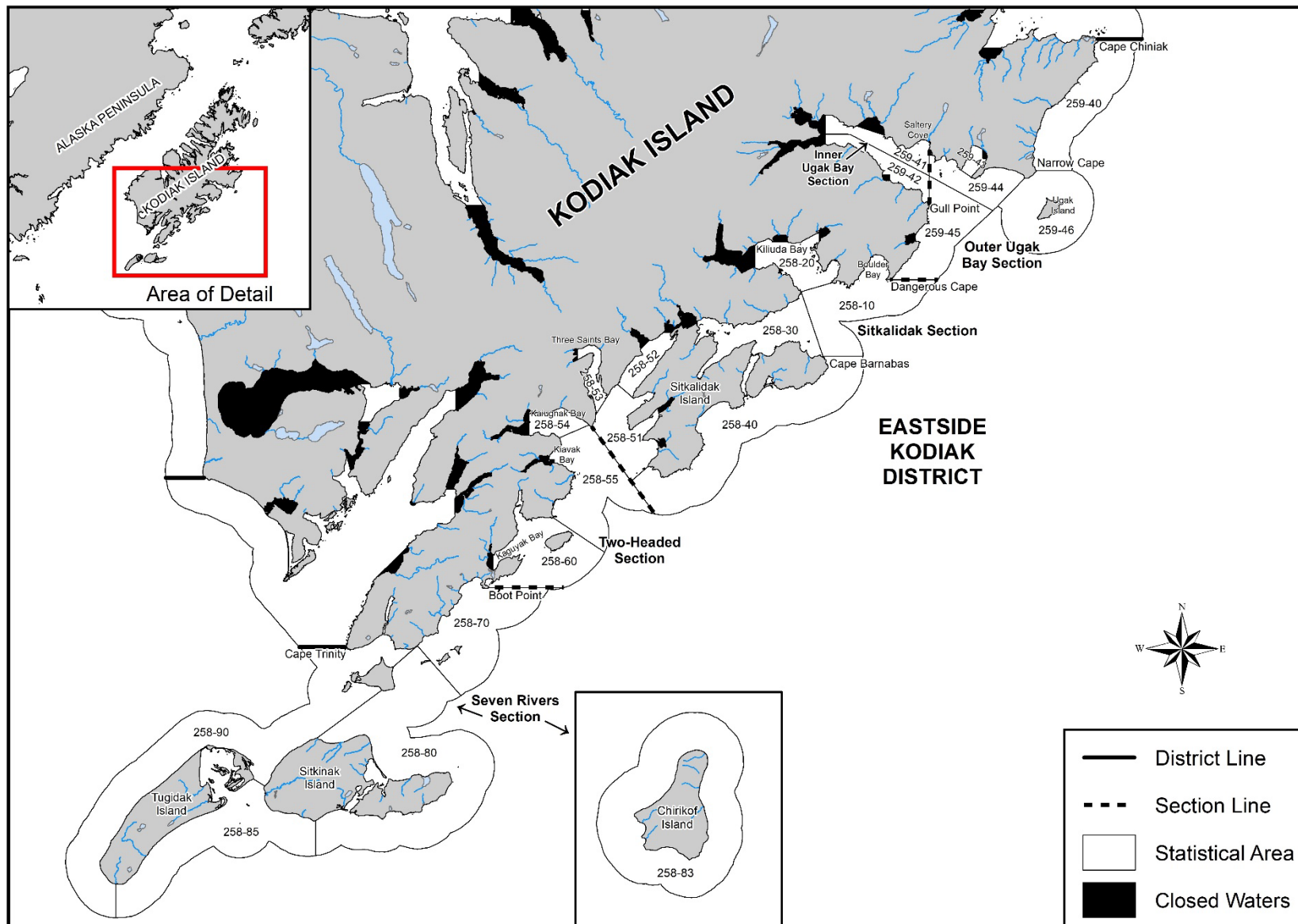




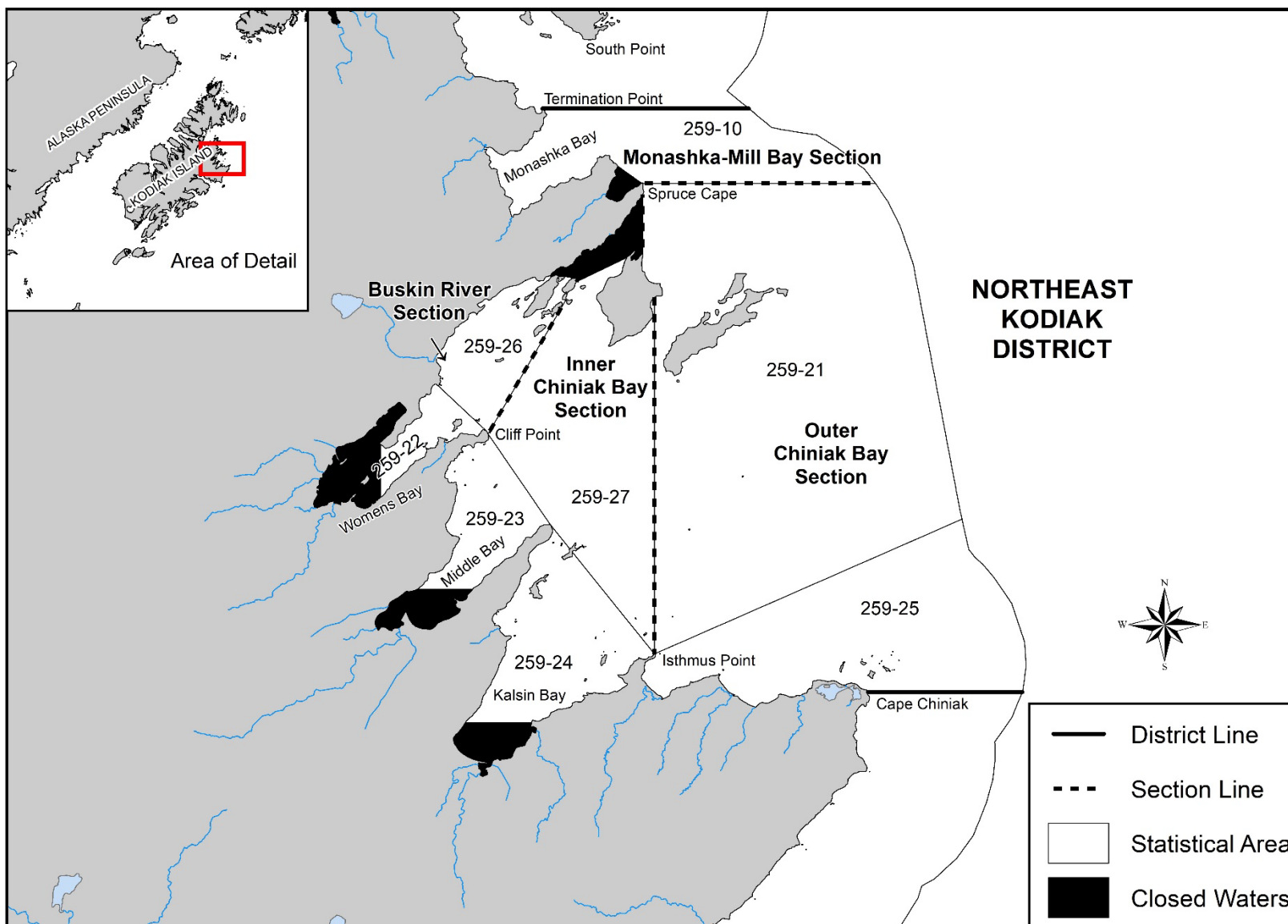
Appendix A6.—Map of the Afognak District commercial salmon fishing sections and statistical areas.



Appendix A7.—Map of the Eastside Kodiak District commercial salmon fishing sections and statistical areas.



Appendix A8.—Map of the Northeast Kodiak District commercial salmon fishing sections and statistical areas.





## **APPENDIX B. INSEASON MANAGEMENT ACTIONS**

Appendix B1.—Commercial salmon fishing time, by district and section, in the Kodiak Management Area, 2020.

<i>Districts/Sections</i>		6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
Northwest Kodiak	Central																														
	North Cape																														
	Anton Larson																														
	Sharatin																														
	Kizhuyak																														
	Terror Bay																														
	Inner Uganik Bay																														
	Spiridon SHA																														
	Spiridon Bay																														
	Zachar Bay																														
	Uyak Bay																														
		6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
Southwest Kodiak	Outer Karluk																														
	Inner Karluk																														
	Sturgeon																														
	Halibut Bay																														
	Outer Ayakulik																														
	Inner Ayakulik																														
		6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
Alitak	Olga Bay																														
	Moser																														
	Alitak Bay																														
	Cape Alitak																														
	Humpy - Deadman																														
	Dog Salmon Flats																														
	Outer Akalura																														
	Inner Akalura																														
	Outer Upper Station																														
	Inner Upper Station																														
		6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
Eastside Kodiak	Seven Rivers																														
	Two Headed																														
	Sitkalidak																														
	Outer Ugak Bay																														
	Inner Ugak Bay																														

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Appendix B1.-Page 2 of 8.

<i>Districts/Sections</i>		6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
Northeast Kodiak	Outer Chiniak																														
	Inner Chiniak																														
	Buskin River																														
	Monashka-Mill Bay																														
Afognak	Southeast Afognak																														
	Duck Bay																														
	Izhut Bay																														
	Inner Kitoi Bay																														
	Outer Kitoi Bay																														
	Northeast Afognak																														
	Pauls Bay																														
	Perenosa																														
	Waterfall Bay SHA																														
	Shuyak Island																														
	Northwest Afognak																														
	Foul Bay SHA																														
	Southwest Afognak																														
	Malina THA																														
	Raspberry Strait																														
Mainland	Big River																														
	Hallo Bay																														
	Outer Kukak Bay																														
	Inner Kukak Bay																														
	Dakavak Bay																														
	Katmai																														
	Alinchak																														
	Cape Igvak																														
	Wide Bay																														
fishing time in entire section																															
fishing time in partial section																															

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Appendix B1.–Page 3 of 8.

Districts/Sections		7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/30	7/31
Northwestern Kodiak	Central																															
	North Cape																															
	Anton Larson																															
	Sharatin																															
	Kizhuyak																															
	Terror Bay																															
	Inner Uganik Bay																															
	Spiridon SHA																															
	Spiridon Bay																															
	Zachar Bay																															
	Uyak Bay																															
Southwest Kodiak	Outer Karluk																															
	Inner Karluk																															
	Sturgeon																															
	Halibut Bay																															
	Outer Ayakulik																															
	Inner Ayakulik																															
Alitak	Olga Bay																															
	Moser																															
	Alitak Bay																															
	Cape Alitak																															
	Humpy - Deadman																															
	Dog Salmon Flats																															
	Outer Akalura																															
	Inner Akalura																															
	Outer Upper Station																															
	Inner Upper Station																															
Eastside Kodiak	Seven Rivers																															
	Two Headed																															
	Sitkalidak																															
	Outer Ugak Bay																															
	Inner Ugak Bay																															
fishing time in entire section																																
fishing time in partial section																																

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Appendix B1.–Page 4 of 8.

<i>Districts/Sections</i>		7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/30	7/31
<b>Northeast Kodiak</b>	Outer Chiniak																															
	Inner Chiniak																															
	Buskin River																															
	Monashka-Mill Bay																															
<b>Afognak</b>	Southeast Afognak																															
	Duck Bay																															
	Izhut Bay																															
	Inner Kitoi Bay																															
	Outer Kitoi Bay																															
	Northeast Afognak																															
	Pauls Bay																															
	Perenosa																															
	Waterfall Bay SHA																															
	Shuyak Island																															
	Northwest Afognak																															
	Foul Bay SHA																															
	Southwest Afognak																															
	Malina THA																															
	Raspberry Strait																															
<b>Mainland</b>	Big River																															
	Hallo Bay																															
	Outer Kukak Bay																															
	Inner Kukak Bay																															
	Dakavak Bay																															
	Katmai																															
	Alinchak																															
	Cape Igvak																															
	Wide Bay																															

fishing time in entire section

fishing time in partial section

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Appendix B1.–Page 5 of 8.

Districts/Sections		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
Northwest Kodiak	Central																															
	North Cape																															
	Anton Larsen																															
	Sharatin																															
	Kizhuyak																															
	Terror Bay																															
	Inner Uganik Bay																															
	Spiridon SHA																															
	Spiridon Bay																															
	Zachar Bay																															
	Uyak Bay																															
		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
Southwest Kodiak	Outer Karluk																															
	Inner Karluk																															
	Sturgeon																															
	Halibut Bay																															
	Outer Ayakulik																															
	Inner Ayakulik																															
		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
Alitak	Olga Bay																															
	Moser																															
	Alitak Bay																															
	Cape Alitak																															
	Humpy - Deadman																															
	Dog Salmon Flats																															
	Outer Akalura																															
	Inner Akalura																															
	Outer Upper Station																															
	Inner Upper Station																															
		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
Eastside Kodiak	Seven Rivers																															
	Two Headed																															
	Sitkalidak																															
	Outer Ugak Bay																															
	Inner Ugak Bay																															
fishing time in entire section																																
fishing time in partial section																																

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Appendix B1.–Page 6 of 8.

<i>Districts/Sections</i>		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
Northeast Kodiak	Outer Chiniak																															
	Inner Chiniak																															
	Buskin River																															
	Monashka-Mill Bay																															
Afognak		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
	Southeast Afognak																															
	Duck Bay																															
	Izhut Bay																															
	Inner Kitoi Bay																															
	Outer Kitoi Bay																															
	Northeast Afognak																															
	Pauls Bay																															
	Perenosia																															
	Waterfall Bay SHA																															
	Shuyak Island																															
	Northwest Afognak																															
	Foul Bay SHA																															
	Southwest Afognak																															
	Malina THA																															
	Raspberry Strait																															
Mainland		8/1	8/2	8/3	8/4	8/5	8/6	8/7	8/8	8/9	8/10	8/11	8/12	8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26	8/27	8/28	8/29	8/30	8/31
	Big River																															
	Hallo Bay																															
	Outer Kukak Bay																															
	Inner Kukak Bay																															
	Dakavak Bay																															
	Katmai																															
	Alinchak																															
	Cape Igvak																															
	Wide Bay																															

fishing time in  
entire section



fishing time in  
partial section



-continued-

Appendix B1.-Page 7 of 8.

Districts/Sections		9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
Northwest Kodiak	Central																														
	North Cape																														
	Anton Larson																														
	Sharatin																														
	Kizhuyak																														
	Terror Bay																														
	Inner Uganik Bay																														
	Spiridon SHA																														
	Spiridon Bay																														
	Zachar Bay																														
	Uyak Bay																														
Southwest Kodiak		9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
	Outer Karluk																														
	Inner Karluk																														
	Sturgeon																														
	Halibut Bay																														
	Outer Ayakulik																														
Alitak	Inner Ayakulik																														
		9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
	Olga Bay																														
	Moser																														
	Alitak Bay																														
	Cape Alitak																														
	Humpy - Deadman																														
	Dog Salmon Flats																														
	Outer Akalura																														
	Inner Akalura																														
	Outer Upper Station																														
	Inner Upper Station																														
Eastside Kodiak		9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
	Seven Rivers																														
	Two Headed																														
	Sitkalidak																														
	Outer Ugak Bay																														
	Inner Ugak Bay																														
	fishing time in entire section																														
	fishing time in partial section																														

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Appendix B1.–Page 8 of 8.

Districts/Sections		9/1	9/2	9/3	9/4	9/5	9/6	9/7	9/8	9/9	9/10	9/11	9/12	9/13	9/14	9/15	9/16	9/17	9/18	9/19	9/20	9/21	9/22	9/23	9/24	9/25	9/26	9/27	9/28	9/29	9/30
Northeast Koodiak	Outer Chiniak																														
	Inner Chiniak																														
	Buskin River																														
	Monashka-Mill Bay																														
Afognak	Southeast Afognak																														
	Duck Bay																														
	Izhut Bay																														
	Inner Kitoi Bay																														
	Outer Kitoi Bay																														
	Northeast Afognak																														
	Pauls Bay																														
	Perenosa																														
	Waterfall Bay SHA																														
	Shuyak Island																														
	Northwest Afognak																														
	Foul Bay SHA																														
	Southwest Afognak																														
	Malina THA																														
	Raspberry Strait																														
Mainland	Big River																														
	Hallo Bay																														
	Outer Kukak Bay																														
	Inner Kukak Bay																														
	Dakavak Bay																														
	Katmai																														
	Alinchak																														
	Cape Igvak																														
	Wide Bay																														
fishing time in entire section																															
fishing time in partial section																															

Appendix B2.—Summary of emergency orders issued in the Kodiak Management Area, 2020.

E.O. #	Issued	Effective	Action in Effect
1	10:00 AM 6/6/2020	Noon 6/9/2020	<p><u>Opening</u> for 57 hours, until 9:00 PM 6/11:</p> <ul style="list-style-type: none"> <li>Northwest Kodiak District</li> </ul> <p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>Inner Kitoi Bay, Outer Kitoi Bay, Duck Bay, and Izhut Bay Sections</li> <li>Foul Bay Special Harvest Area (FBSHA)</li> <li>Waterfall Bay Special Harvest Area (WBSHA)</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced until further notice in Foul Bay, Waterfall Bay, and Kitoi Bay</li> </ul> <p><u>Non-retention</u> of Chinook salmon 28 inches or greater in length until further notice</p>
2	10:00 AM 6/12/2020	Noon 6/14/2020	<p><u>Opening</u> for 33 hours, until 9:00 PM 6/15:</p> <ul style="list-style-type: none"> <li>Northwest Kodiak District</li> <li>Eastside Kodiak District</li> <li>Southwest Afognak, Northwest Afognak, Pauls Bay, and Perenos Bay Sections</li> <li>Big River and Outer Kukak Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced until 9:00 PM 6/15 at Kafli Creek and Saltery Creek</li> </ul>
3	10:00 AM 6/19/2020	Noon 6/21/2020  9:00 PM 6/20/2020	<p><u>Opening</u> for 33 hours, until 9:00 PM 6/22:</p> <ul style="list-style-type: none"> <li>Eastside Kodiak District</li> <li>Northwest Afognak, Pauls Bay, and Perenos Bay Sections</li> <li>Big River and Outer Kukak Bay Sections</li> </ul> <p><u>Closure</u> in the following area:</p> <ul style="list-style-type: none"> <li>Duck Bay, Inner Kitoi Bay, Outer Kitoi Bay, and Izhut Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced until 9:00 PM 6/20 in Kitoi Bay</li> <li>Reduced from noon 6/21 until 9:00 PM 6/22 at Kafli Creek</li> <li>Expanded from noon 6/21 until 9:00 PM 6/22 at Saltery Creek</li> </ul>
4	10:00 AM 6/26/2020	Noon 6/27/2020	<p><u>Opening</u> for 57 hours, until 9:00 PM 6/29:</p> <ul style="list-style-type: none"> <li>Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, Olga Bay, and Dog Salmon Flats Section</li> <li>Outer Ayakulik Section</li> <li>Izhut Bay Section north of a line from Haystack Rock to Pillar Cape</li> </ul> <p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>Spiridon Bay Special Harvest Area</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced until 9:00 PM 6/29 at Dog Salmon Creek</li> <li>Expanded until 9:00 PM 6/29 at Horse Marine Lagoon</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
5	10:30 AM 7/2/2020	Noon 7/4/2020	<p><u>Opening</u> for 81 hours, until 9:00 PM 7/7:</p> <ul style="list-style-type: none"> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, Olga Bay, and Dog Salmon Flats section</li> <li>• Outer Ayakulik Section</li> </ul>
		Noon 7/6/2020	<p><u>Opening</u> for 81 hours, until 9:00 PM 7/9:</p> <ul style="list-style-type: none"> <li>• Outer Karluk Section</li> <li>• Northwest Kodiak District (except the Kizhuyak Bay, Terror Bay, Inner Uganik Bay, and Zachar Bay Sections remain closed)</li> <li>• Afognak District (except the Southeast Afognak, Duck Bay, Izhut Bay, and Inner and Outer Kitoi Bay Sections remain closed)</li> <li>• Northeast Kodiak District</li> <li>• Eastside Kodiak District (except the Inner Ugak Bay Section remains closed)</li> </ul>
		9:00 PM 7/9/2020	<p><u>Opening</u> for 57 hours, until 9:00 PM 7/8:</p> <ul style="list-style-type: none"> <li>• Mainland District</li> </ul> <p><u>Closure</u> in the following areas:</p> <ul style="list-style-type: none"> <li>• Foul Bay Special Harvest Area</li> <li>• Waterfall Bay Special Harvest Area</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced from noon 7/4 until 9:00 PM 6/29 at Dog Salmon Creek</li> <li>• Expanded from noon 7/4 until 9:00 PM 6/29 at Horse Marine Lagoon</li> <li>• Reduced until 9:00 PM 7/9 at Hidden Lake Creek</li> <li>• Reduced until 9:00 PM 7/9 at Little Waterfall Creek and Big Waterfall Creek</li> </ul>
6	10:00 AM 7/7/2020	9:00 PM 7/7/2020	<p><u>Extension</u> for 48 hours, until 9:00 PM 7/9:</p> <ul style="list-style-type: none"> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, Olga Bay, and Dog Salmon Flats section</li> <li>• Outer Ayakulik Section</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced until 9:00 PM 7/9 at Dog Salmon Creek</li> <li>• Expanded until 9:00 PM 7/9 at Horse Marine Lagoon</li> </ul>
7	10:00 AM 7/11/2020	Noon 7/13/2020	<p><u>Opening</u> for 81 hours, until 9:00 PM 7/16:</p> <ul style="list-style-type: none"> <li>• Outer Ayakulik and Outer Karluk Sections</li> <li>• Northwest Kodiak District (except the Kizhuyak Bay, Terror Bay, Inner Uganik Bay, and Zachar Bay Sections remain closed)</li> <li>• Afognak District (except the Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay Sections remain closed)</li> <li>• Northeast Kodiak District</li> <li>• Eastside Kodiak District (except the Inner Ugak Bay Section remains closed)</li> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
7 (continued)		Noon 7/13/2020	<u>Opening</u> for 57 hours, until 9:00 PM 7/15: <ul style="list-style-type: none"> <li>• Mainland District</li> </ul>
8	8:30 PM 7/13/2020	11:30 PM 7/13/2020	<u>Closure</u> in the following areas: <ul style="list-style-type: none"> <li>• The Seward Zones of the Alinchak Bay, Katmai Bay, Outer Kukak Bay, Hallo Bay, and Big River Sections</li> <li>• The Seward Zones of the Northwest Afognak and Shuyak Island Sections</li> </ul>
9	10:00 AM 7/18/2020	Noon 7/20/2020	<u>Opening</u> for 81 hours, until 9:00 PM 7/23: <ul style="list-style-type: none"> <li>• Outer Ayakulik, Halibut Bay, and Outer Karluk Sections</li> <li>• Northwest Kodiak District (except the Kizhuyak Bay, Terror Bay, Inner Uganik Bay, and Zachar Bay Sections remains closed)</li> <li>• Afognak District (except the Kitoi Bay, Outer Kitoi Bay, and Seward Zones of Northwest Afognak and Shuyak Island Sections remain closed)</li> <li>• Northeast Kodiak District</li> <li>• Eastside Kodiak District (except the Inner Ugak Bay Section remains closed)</li> <li>• Humpy-Deadman Section</li> </ul> <u>Opening</u> for 57 hours, until 9:00 PM 7/22: <ul style="list-style-type: none"> <li>• Mainland District (except Seaward Zones of Alinchak Bay, Katmai Bay, Outer Kukak Bay, Hallo Bay, and Big River Sections remain closed)</li> </ul>
10	10:00 AM 7/20/2020	Noon 7/21/2020	<u>Opening</u> for 57 hours, until 9:00 PM 7/23: <ul style="list-style-type: none"> <li>• Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul>
11	10:00 AM 7/26/2020	Noon 7/27/2020	<u>Opening</u> for 81 hours, until 9:00 PM 7/30: <ul style="list-style-type: none"> <li>• Sturgeon, Inner Karluk, and Outer Karluk Sections</li> <li>• Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections remains closed)</li> <li>• Southwest Afognak, Inner Kitoi Bay, Outer Kitoi Bay, Izhut Bay, and Duck Bay Sections</li> </ul> <u>Closed water adjustments:</u> <ul style="list-style-type: none"> <li>• Expanded from noon 7/27 until 9:00 PM 7/30 at Big Kitoi Creek and Little Kitoi Creek Ayakulik and Halibut Bay Sections</li> <li>• Reduced from noon 7/27 until 9:00 PM 7/30 at Karluk Lagoon and Sturgeon Lagoon</li> </ul> Noon 7/27/2020 <u>Opening</u> for 57 hours, until 9:00 PM 7/29: <ul style="list-style-type: none"> <li>• Outer Ayakulik and Halibut Bay Sections</li> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>• Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay, and Katmai Sections (except the Seaward Zones remain closed)</li> <li>• Alinchak Bay Section north of the latitude of Cape Kekernoi (57° 43.50' N lat) (except the Seward Zone remains closed)</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
11 (continued)		Noon 7/27/2020	<p><u>Extension</u> for 96 hours, until 9:00 PM 7/24:</p> <ul style="list-style-type: none"> <li>• Cape Alitak, Alitak Bay, Moser Bay, Olga Bay, and Dog Salmon Flats Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Expanded from 9:00 PM 7/27 until 9:00 PM 7/29 in Deadman Bay north of the latitude of Cape Hepburn (56° 57.5' N lat)</li> </ul>
12	10:00 AM 7/28/2020	Noon 7/29/2020	<p><u>Opening</u> for 33 hours, until 9:00 PM 7/30:</p> <ul style="list-style-type: none"> <li>• Southeast Afognak, Raspberry Strait, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay, and Northeast Afognak Sections</li> </ul>
		9:00 PM 7/29/2020	<p><u>Extension</u> for 24 hours until 9:00 PM 7/30:</p> <ul style="list-style-type: none"> <li>• Outer Ayakulik and Halibut Bay section</li> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• The Seward Zones of the Northwest Afognak and Shuyak Island Sections remain closed</li> <li>• Expanded until 9:00 PM 7/30 in Deadman Bay north of the latitude of Cape Hepburn (56° 57.5' N lat)</li> </ul>
		9:00 PM 7/30/2020	<p><u>Extension</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Inner Kitoi Bay, Outer Kitoi Bay, and Izhut Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Expanded from 9:00 PM 9/30 until further notice at Big Kitoi Creek and Little Kitoi Creek</li> </ul>
13	10:00 AM 7/30/2020	9:00 PM 7/30/2020	<p><u>Extension</u> for 24 hours until 9:00 PM 7/32:</p> <ul style="list-style-type: none"> <li>• Outer Ayakulik, Halibut Bay, Sturgeon, Inner Karluk, and Outer Karluk Sections</li> <li>• Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>• Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Spiridon Bay, and Ugak Bay Sections remain closed)</li> <li>• Southwest Afognak, Southeast Afognak, Raspberry Strait, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay, Northeast Afognak, and Duck Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced until 9:00 PM 7/31 at Karluk Lagoon and Sturgeon Lagoon</li> <li>• Expanded until 9:00 PM 7/31 in Deadman Bay north of a latitude of Cape Hepburn (56° 57.5' N lat)</li> <li>• The Seward Zones of the Northwest Afognak and Shuyak Island Sections remain closed</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
14	10:00 AM 7/31/2020	Noon 8/3/2020	<u>Opening</u> for 105 hours, until 9:00 PM 8/7: <ul style="list-style-type: none"> <li>Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>Southwest Afognak, Southeast Afognak, Raspberry Strait, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay, Northeast Afognak, and Duck Bay Sections</li> <li>The Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul>
15	10:00 AM 8/2/2020	Noon 8/3/2020	<u>Opening</u> for 57 hours, until 9:00 PM 8/5: <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay and Katmai Sections</li> <li>Alinchak Bay Section of the Mainland District north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> </ul>
16	10:00 PM 8/3/2020	Noon 8/5/2020	<u>Opening</u> for 57 hours, until 9:00 PM 8/7: <ul style="list-style-type: none"> <li>Northeast Kodiak District</li> <li>Seven Rivers and Two-Headed Sections of the Eastside Kodiak District south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> </ul>
17	2:00 PM 8/3/2020	5:00 PM 8/3/2020	<u>Closure</u> in the following areas: <ul style="list-style-type: none"> <li>Inner Kitoi Bay and Outer Kitoi Bay Sections</li> </ul>
18	10:00 AM 8/4/2020	Noon 8/5/2020	<u>Opening</u> until further notice: <ul style="list-style-type: none"> <li>Inner Kitoi Bay and Outer Kitoi Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Expanded until further notice at Big Kitoi Creek and Little Kitoi Creek</li> </ul>
		9:00 PM 8/5/2020	<u>Extension</u> for 48 hours, until 9:00 PM 8/7: <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> </ul>
19	10:00 AM 8/9/2020	9:00 PM 8/10/2020	<u>Extension</u> for 72 hours, until 9:00 PM 8/13: <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, and Spiridon Bay Sections will remain closed)</li> <li>Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenosa Bay, Northeast Afognak, and Duck Bay Sections</li> </ul>
	10:00 AM 8/9/2020	Noon 8/11/2020	<u>Opening</u> for 57 hours, until 9:00 PM 8/13: <ul style="list-style-type: none"> <li>Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>Shuyak Island and Pauls Bay Sections</li> <li>Seven Rivers and Two-Headed Sections south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> <li>Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay and Katmai Sections</li> <li>The Alinchak Bay Section north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
20	10:00 AM 8/9/2020	9:00 PM 8/10/2020	<p><u>Extension</u> for 72 hours, until 9:00 PM 9/13:</p> <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenos Bay, Northeast Afognak, and Duck Bay Sections</li> </ul>
		Noon 8/11/2020	<p><u>Opening</u> for 57 hours, until 9:00 PM 8/13:</p> <ul style="list-style-type: none"> <li>Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>Shuyak Island and Pauls Bay Sections</li> <li>Northeast Kodiak District</li> <li>Seven Rivers and Two-Headed Sections south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> <li>Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay and Katmai Sections</li> <li>Alinchak Bay Section of the Mainland District north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> </ul>
21	10:00 AM 8/11/2020	9:00 PM 8/11/2020	<p><u>Closure</u> in the following areas:</p> <ul style="list-style-type: none"> <li>Inner Kitoi Bay and Outer Kitoi Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Expanded until 9:00 PM 8/11 at Big Kitoi Creek and Little Kitoi Creek</li> </ul>
		Noon 8/12/2020	<p><u>Opening</u> for 33 hours, until 9:00 PM 8/13:</p> <ul style="list-style-type: none"> <li>Dog Salmon Flats Section</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Expanded near Horse Marine Lagoon, from noon 8/12 to 9:00 p.m. 8/13 in the Dog Salmon Flats Section east of a line bounded by a point from 57° 07.24' N lat, 154° 00.30' W long, to a point at 57° 06.495' N lat, 154° 00.30' W long, to a point at 57° 06.38' N lat, 154° 00.00' W long</li> </ul>
22	10:00 AM 8/12/2020	Noon 8/13/2020	<p><u>Opening</u> for 33 hours, until 9:00 PM 8/14:</p> <ul style="list-style-type: none"> <li>Inner Ayakulik, Inner Karluk, Sturgeon, and Halibut Bay Sections</li> </ul>
		9:00 PM 8/9/2020	<p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced at Karluk Lagoon, Ayakulik Lagoon, and Sturgeon Lagoon</li> </ul>
	10:00 AM 8/12/2020	9:00 PM 8/13/2020	<p><u>Extension</u> for 24 hours, until 9:00 PM 8/14:</p> <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenos Bay, Northeast Afognak, and Duck Bay Sections</li> <li>Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>Seven Rivers and Two-Headed Sections south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> <li>Northeast Kodiak District</li> <li>Dog Salmon Flats Section</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
22 (continued)	10:00 AM 8/12/2020	9:00 PM 8/13/2020	<p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced from noon 8/12 until 9:00 PM 8/14 at Dog Salmon Creek</li> <li>• Expanded from noon 8/12 until 9:00 PM 8/14 at Horse Marine Lagoon east of a line bounded by a point from 57° 07.24' N lat, 154° 00.30' W long, to a point at 57° 06.495' N lat, 154° 00.30' W long, to a point at 57° 06.38' N lat, 154° 00.00' W long)</li> </ul>
23	10:00 AM 8/13/2020	9:00 PM 8/13/2020	<p><u>Closure</u> in the following area:</p> <ul style="list-style-type: none"> <li>• Izhut Bay Section south of a line from Haystack Rock (at 58° 10.58' N lat, 152° 17.36' W long) to Pillar Cape (at 58° 08.90' N lat, 152° 06.77' W long)</li> </ul> <p>Noon 8/14/2020</p> <p><u>Opening</u> for 57 hours, until 9:00 PM 8/16:</p> <ul style="list-style-type: none"> <li>• Inner Ugak Bay, Outer Ugak Bay, Sitkalidak, and Two-Headed Sections District north of a latitude of Cape Kiavak (57° 00.00' N lat)</li> </ul> <p>9:00 PM 8/14/2020</p> <p><u>Extension</u> for 48 hours, until 9:00 PM 8/16:</p> <ul style="list-style-type: none"> <li>• Outer Karluk and Outer Ayakulik Sections</li> <li>• Northwest Kodiak District (except the Anton Larsen Bay, Sharatin Bay, Kizhuyak Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>• The Cape Alitak, Humpy Deadman, Alitak Bay, Moser Bay, Olga Bay and Dog Salmon Flats Sections</li> <li>• Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenosa Bay, Northeast Afognak, and Duck Bay Sections</li> <li>• The Seven Rivers and Two-Headed Sections of the Eastside Kodiak District south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> <li>• Northeast Kodiak District</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced until 9:00 PM 8/16 at Dog Salmon Creek</li> <li>• Expanded until 9:00 PM 8/16 at Horse Marine Lagoon east of a line bounded by a point from 57° 07.24' N lat, 154° 00.30' W long, to a point at 57° 06.495' N lat, 154° 00.30' W long, to a point at 57° 06.38' N lat, 154° 00.00' W long)</li> </ul>
24	11:00 AM 8/14/2020	9:00 PM 8/14/2020	<p><u>Extension</u> for 24 hours, until 9:00 PM 8/15:</p> <ul style="list-style-type: none"> <li>• The Inner Ayakulik, Inner Karluk, Sturgeon and Halibut Bay Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced until 9:00 PM 8/15 at Karluk Lagoon, Ayakulik River, and Sturgeon Lagoon</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
25	10:00 AM 8/15/2020	9:00 PM 8/15/2020	<p><u>Closure in the following area:</u></p> <ul style="list-style-type: none"> <li>Izhut Bay Section north of a line from Haystack Rock (at 58° 10.58' N lat, 152° 17.36' W long) to Pillar Cape (at 58° 08.90' N lat, 152° 06.77' W long)</li> </ul>
		Noon 8/16/2020	<p><u>Opening</u> for 54 hours, until 6:00 PM 8/18:</p> <ul style="list-style-type: none"> <li>Sharatin Bay and Kizhuyak Bay Sections</li> <li>Shuyak Island and Pauls Bay Sections</li> <li>Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay and Katmai Sections</li> <li>Alinchak Bay Section north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> </ul>
		9:00 PM 8/16/2020	<p><u>Closure in the following areas:</u></p> <ul style="list-style-type: none"> <li>Duck Bay Section</li> <li>Spiridon Bay Special Harvest Area</li> </ul> <p><u>Extension</u> for 45 hours, until 6:00 PM 8/18:</p> <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Northwest Kodiak District (except the Anton Larsen Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>Humpy-Deadman and Dog Salmon Flats Sections</li> <li>Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenosa Bay, and Northeast Afognak Sections</li> <li>Northeast Kodiak District</li> </ul> <p><u>Close water adjustments:</u></p> <ul style="list-style-type: none"> <li>Reduced until 6:00 PM 8/18 at Dog Salmon Creek</li> <li>Reduced from 9:00 PM 8/16 until 6:00 PM 8/18 at Horse Marine Lagoon</li> </ul>
26	10:00 AM 8/16/2020	9:00 PM 8/16/2020	<p><u>Extension</u> for 45 hours, until 6:00 PM 8/18:</p> <ul style="list-style-type: none"> <li>Seven Rivers and Two-Headed Sections south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> </ul>
27	11:00 AM 8/17/2020	Noon 8/18/2020	<p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>Duck Bay Section</li> </ul>
		6:00 PM 8/18/2020	<p><u>Extension</u> for 72 hours until 6:00 PM 8/21:</p> <ul style="list-style-type: none"> <li>Outer Karluk and Outer Ayakulik Sections</li> <li>Northwest Kodiak District (except the Anton Larsen Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>Humpy-Deadman and Dog Salmon Flats Sections</li> <li>Southeast Afognak, Raspberry Strait, Southwest Afognak, Northwest Afognak, Perenosa Bay, and Northeast Afognak Sections</li> <li>Seven Rivers and Two-Headed Sections south of a latitude of Cape Kiavak (57° 00.00' N lat)</li> <li>Northeast Kodiak District</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
28	5:00 PM 8/17/2020	6:00 PM 8/18/2020	<p><u>Extension</u> for 72 hours, until 6:00 PM 8/21:</p> <ul style="list-style-type: none"> <li>• The Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay, and Katmai Sections</li> <li>• Alinchak Bay Section north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced from noon 8/18 until 6:00 PM 8/21 at Bear Bay Creek, West Bear Creek, Big Alinchak Creek, and Little Alinchak Creek</li> </ul>
29	10:30 AM 8/18/2020	Noon 8/19/2020	<p><u>Opening</u> for 54 hours until 6:00 PM 8/21:</p> <ul style="list-style-type: none"> <li>• Inner Ayakulik Section</li> <li>• Inner Ugak Bay, Outer Ugak Bay, Sitkalidak, and Inner Ayakulik Two-Headed Sections north of a latitude of Cape Kiavak (57° 00.00' N lat).</li> </ul> <p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Izhut Bay Section</li> </ul> <p><u>Close water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced from noon 8/19 until 6:00 PM 8/21 at Ayakulik River</li> </ul>
30	10:00 AM 8/19/2020	Noon 8/20/2020	<p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Outer Kitoi Bay Section</li> </ul>
31	10:00 AM 8/21/2020	6:00 PM 8/21/2020	<p><u>Closure</u> in the following:</p> <ul style="list-style-type: none"> <li>• Outer Kitoi Bay Section</li> <li>• Extension for 72 hours, until 6:00 PM 8/24:</li> <li>• Outer Karluk, Inner Ayakulik and Outer Ayakulik Sections</li> <li>• Northwest Kodiak District (except the Anton Larsen Bay, Zachar Bay, Spiridon Bay, and Uyak Bay Sections will remain closed)</li> <li>• Humpy-Deadman and Dog Salmon Flats Sections</li> <li>• The Southwest Afognak, Southeast Afognak, Raspberry Strait, Northwest Afognak, Perenosa Bay, and Northeast Afognak Sections</li> <li>• Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay, Katmai, and Alinchak Bay Sections north of the latitude of Cape Kekernoi (57° 43.50' N lat)</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul>
		Noon 8/22/2020	<p><u>Opening</u> for 54 hours, until 6:00 PM 8/24:</p> <ul style="list-style-type: none"> <li>• Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>• Pauls Bay and Shuyak Island Sections</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced until 6:00 PM 8/24 at Dog Salmon Creek</li> <li>• Reduced until 6:00 PM 8/24 at Horse Marine Lagoon</li> <li>• Reduced until 6:00 PM 8/24 at Bear Bay Creek, West Bear Creek, Big Alinchak Creek, and Little Alinchak River</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
32	10:15 AM 8/24/2020	6:00 PM 8/24/2020	<p><u>Closure</u> in the following areas:</p> <ul style="list-style-type: none"> <li>• Duck Bay Section</li> <li>• Izhut Bay Section south of a line from Haystack Rock (at 58° 10.58' N lat, 152° 17.36' W long) to Pillar Cape (at 58° 08.90' N lat, 152° 06.77' W long)</li> </ul> <p><u>Extension</u> for 48 hours, until 6:00 PM 8/26:</p> <ul style="list-style-type: none"> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>• Outer Karluk Section</li> <li>• Central and North Cape Sections</li> <li>• Southwest Afognak Section</li> </ul>
33	11:00 AM 8/25/2020	<p>Noon 8/26/2020</p> <p>6:00 PM 8/26/2020</p> <p>Noon 8/27/2020</p>	<p><u>Opening</u> for 78 hours, until 6:00 PM 8/29:</p> <ul style="list-style-type: none"> <li>• Duck Bay Section</li> </ul> <p><u>Extension</u> for 72 hours, until 6:00 PM 8/29:</p> <ul style="list-style-type: none"> <li>• Outer Karluk Section</li> <li>• Central and North Cape Sections</li> <li>• Southwest Afognak Section</li> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul> <p><u>Opening</u> for 54 hours, until 6:00 PM 8/29:</p> <ul style="list-style-type: none"> <li>• Inner Ayakulik and Outer Ayakulik Sections</li> <li>• Sheratin Bay, Kizhuyak Bay, Terror Bay, and Uganik Bay Sections</li> <li>• Southeast Afognak, Raspberry Strait, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay, and Northeast Afognak Sections</li> <li>• Big River, Hallo Bay, Outer Kukak Bay, Dakavak Bay, Katmai, and Alinchak Bay Sections north of the latitude of Cape Kekernoi (57° 43.50' N lat);</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul> <p><u>Closed water adjustments:</u></p> <ul style="list-style-type: none"> <li>• Reduced from noon 8/27 until 6:00 PM 8/29 at Ayakulik River</li> </ul>
34	10:00 AM 8/26/2020	Noon 8/27/2020	<p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Izhut Bay Section south of a line from Haystack Rock (at 58° 10.58' N lat, 152° 17.36' W long) to Pillar Cape (at 58° 08.90' N lat, 152° 06.77' W long)</li> </ul>
35	9:30 AM 8/29/2020	Noon 8/30/2020	<p><u>Opening</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Outer Kitoi Bay Section</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
36	4:00 PM 8/31/2020	Noon 9/1/2020	<p><u>Opening</u> for 102 hours, until 6:00 PM 9/5:</p> <ul style="list-style-type: none"> <li>• Central, North Cape, Sheratin Bay, Kizhuyak Bay, Terror Bay, and Inner Uganik Bay Sections</li> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul> <p><u>Opening</u> for 78 hours, until 6:00 PM 9/4:</p> <ul style="list-style-type: none"> <li>• Outer Ayakulik Section</li> <li>• Afognak District (except the Outer Kitoi and Izhut Bay section remain open until further notice, and Inner Kitoi Bay Section remains closed)</li> <li>• Mainland District</li> </ul>
37	Noon 9/3/2020	Noon 9/4/2020  6:00 PM 9/5/2020	<p><u>Opening</u> for 78 hours, until 6:00 PM 9/7:</p> <ul style="list-style-type: none"> <li>• Outer Karluk Section</li> </ul> <p><u>Extension</u> for 48 hours, until 6:00 PM 9/7:</p> <ul style="list-style-type: none"> <li>• Central and North Cape Sections</li> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul>
38	9:30 AM 9/6/2020	6:00 PM 9/7/2020  Noon 9/8/2020	<p><u>Extension</u> for 96 hours, until 6:00 PM 9/11:</p> <ul style="list-style-type: none"> <li>• Outer Karluk Section</li> <li>• Central and North Cape Sections</li> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul> <p><u>Opening</u> for 78 hours, until 6:00 PM 9/11:</p> <ul style="list-style-type: none"> <li>• Outer Ayakulik Section</li> <li>• Afognak District (except the Outer Kitoi Bay and Izhut Bay Sections remain open until further notice, and the Inner Kitoi Bay Section remains closed)</li> <li>• Mainland District</li> <li>• Sharatin Bay, Kizhuyak Bay, Terror Bay, and Inner Uganik Bay Sections</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul>
39	10:00 AM 9/10/2020	6:00 PM 9/11/2020	<p><u>Extension</u> until further notice:</p> <ul style="list-style-type: none"> <li>• Outer Karluk Section</li> <li>• Central and North Cape Sections</li> <li>• Humpy-Deadman, Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections</li> </ul>

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E.O. #	Issued	Effective	Action in Effect
40	10:00 AM 9/14/2020	Noon 9/15/2020	<u>Opening</u> for 78 hours, until 6:00 PM 9/18: <ul style="list-style-type: none"> <li>• Outer Ayakulik Section</li> <li>• Afognak District (except the Outer Kitoi Bay and Izhut Bay Sections remain open until further notice, and the Inner Kitoi Bay Section remains closed)</li> <li>• Mainland District</li> <li>• Sharatin Bay, Kizhuyak Bay, Terror Bay, and Inner Uganik Bay Sections</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul>
41	10:00 AM 9/21/2020	Noon 10/22/2020	<u>Opening</u> for 78 hours, until 6:00 PM 9/25: <ul style="list-style-type: none"> <li>• Outer Ayakulik Section</li> <li>• Afognak District (except the Outer Kitoi Bay and Izhut Bay Sections remain open until further notice, and the Inner Kitoi Bay Section remains closed)</li> <li>• Mainland District</li> <li>• Sharatin Bay, Kizhuyak Bay, Terror Bay, and Inner Uganik Bay Sections</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul>
42	10:00 AM 9/28/2020	Noon 9/29/2020	<u>Opening</u> for 78 hours, until 6:00 PM 10/2: <ul style="list-style-type: none"> <li>• Outer Ayakulik Section</li> <li>• Afognak District (except the Outer Kitoi Bay and Izhut Bay Sections remain open until further notice, and the Inner Kitoi Bay Section remains closed)</li> <li>• Mainland District</li> <li>• Sharatin Bay, Kizhuyak Bay, Terror Bay, and Inner Uganik Bay Sections</li> <li>• Eastside Kodiak District</li> <li>• Northeast Kodiak District</li> </ul>



## **APPENDIX C. CAPE IGVAK FISHERY SUMMARY**

## INTRODUCTION

Beginning in 1964, a purse seine fishery developed along the capes in the Cape Igvak Section of the Mainland District (Appendix C2). Between 1968 and 1969, Alaska Department of Fish and Game (ADF&G) conducted a tagging study at Cape Igvak (ADF&G 1970). In 1968, ADF&G tagged 325 sockeye salmon on June 22. Only 5 recoveries were documented (4 in Chignik and 1 in Cook Inlet). In 1969, ADF&G tagged 791 sockeye salmon in the Cape Igvak area between June 14 and July 6. Tag recoveries ( $n = 161$ ) were primarily made in the Chignik Management Area (CMA; 83.9%), Kodiak Management Area (KMA; 9.3%), Cook Inlet (4.3%), and West of Chignik (2.5%). The issue of interception of Chignik-bound sockeye salmon in the Cape Igvak Section came before the Board of Fisheries (BOF) several times over the next 10 years, and management of this section was modified many times. From 1974 to 1977, this area was managed for “day for day” equal fishing time with the Chignik Bay District of the CMA.

In 1978, a specific management plan for the Cape Igvak Section was adopted by the BOF. The *Cape Igvak Salmon Management Plan* (CISMP; 5 AAC 18.360) covered the time period from the start of the season through July 25 for fishing activity in the Cape Igvak Section of the Mainland District. This management plan stipulated that 80% of the sockeye salmon harvest from the Cape Igvak Section during this period would be considered Chignik bound. In 2002, the BOF modified the CISMP such that 90% of the Cape Igvak Section sockeye salmon catch was now considered to be Chignik bound. In 2019, the BOF modified the plan again from the original 15% to the current 7.5% of the Chignik-bound sockeye salmon harvest allocated to KMA fishers.<sup>1</sup> Additionally, in 2019, the allocation period was changed to June 1 through July 5. Through July 5 in Chignik, a minimum harvest of 600,000 sockeye salmon must be expected and sockeye salmon escapement must be at desired levels for a harvest to be allowed. Commercial fisheries must begin in CMA before fisheries are allowed in the Cape Igvak Section (Jackson 2020).

Since this plan was adopted in 1978, the catch of Chignik-bound sockeye salmon from the Cape Igvak Section has ranged from 0% to 19.2% of the total Chignik sockeye salmon harvest (Appendix C3). In years that the original CISMP allocation fishery was prosecuted, the sockeye salmon harvest averaged 12.0% of the total CMA sockeye salmon harvest (Appendix C4). The Cape Igvak harvest under the original framework met or exceeded its 15% allocation level in 10 of the 40 years (Appendices C3 and C4). Since the adoption of recent changes to the plan, the Cape Igvak Fishery has not opened to commercial salmon fishing.

### 2020 Cape Igvak Fishery

#### Early Run

The 2020 preseason forecast for the Chignik system predicted a return of approximately 501,000 early-run (Black Lake) sockeye salmon. The early-run escapement goal is 350,000 to 450,000 sockeye salmon through late July (McKinley et al. 2019). This left a forecasted harvestable surplus of 101,000 early-run sockeye salmon (Brenner et al. 2020).

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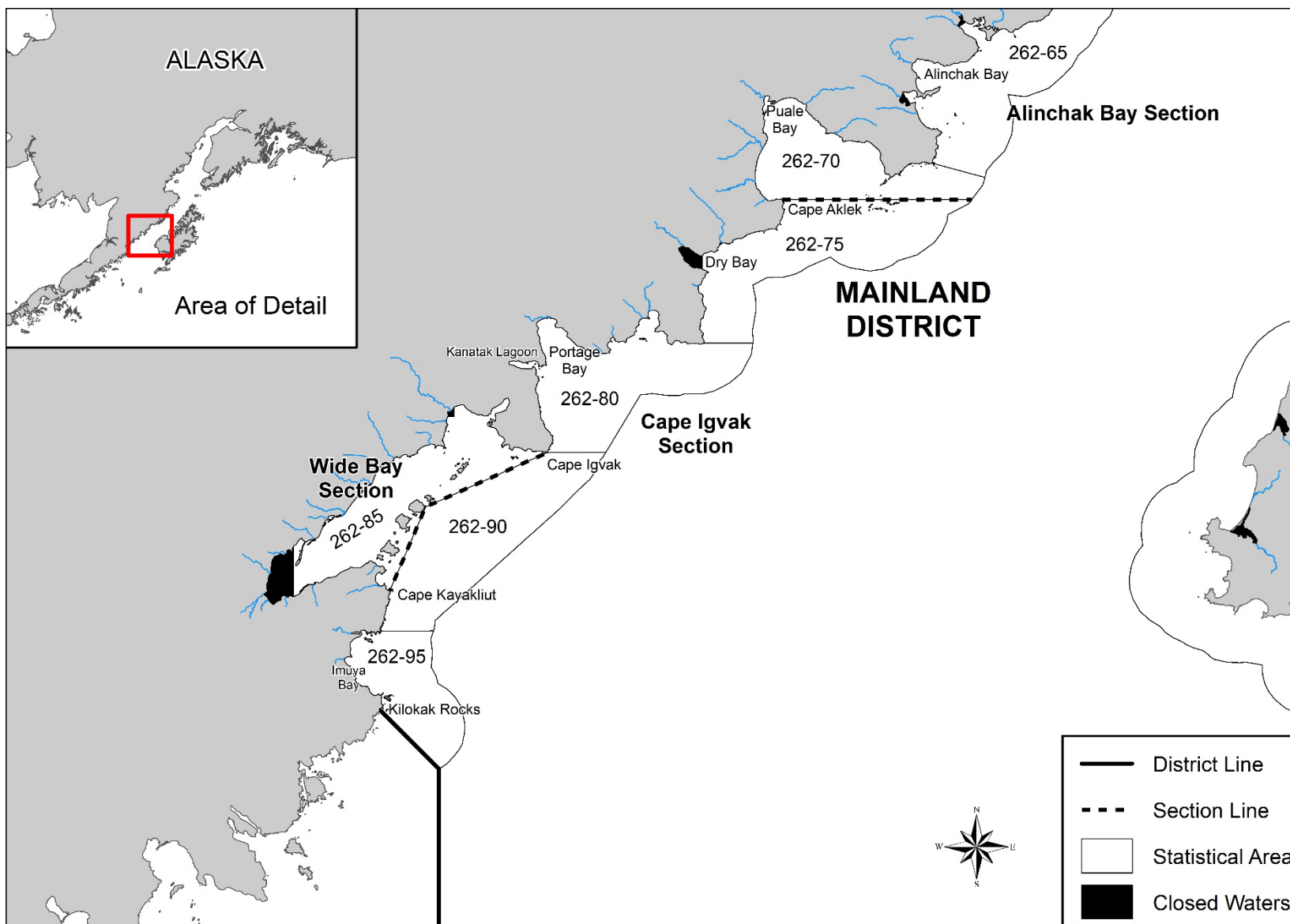
<sup>1</sup> Chignik-bound sockeye salmon are also harvested in the Southeastern Mainland District of the Alaska Peninsula Management Area, in accordance with the regulatory *Southeastern District Mainland Salmon Management Plan*, 5 AAC 09.360.

The early Chignik sockeye salmon return was well below average and the allocative requirements were not met; therefore, the allocation fishery with Cape Igvak was not open to commercial fishing during the early run in 2020.

### REFERENCES CITED

- ADF&G. 1970. Stock identification of commercially-caught red salmon in the vicinity of Cape Igvak, 1968, 1969, 1970. Alaska Department of Fish and Game, Division of Commercial Fisheries Unpublished Region 2 Report, Anchorage.
- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage
- Jackson, J. 2020. Kodiak management area harvest strategy for the 2020 commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K20-08, Kodiak.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.

Appendix C2.—Map of the Cape Igvak Section of the Kodiak Management Area.



Appendix C3.—Harvest of sockeye salmon considered to be Chignik bound in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries through July 25, 1978, to 2020.

Year	Chignik		Cape Igvak <sup>a</sup>		Southeastern District Mainland <sup>a</sup>		Total
	Catch <sup>b</sup>	Percent	Catch <sup>b</sup>	Percent	Catch <sup>b</sup>	Percent	
1978 <sup>c</sup>	1,454,389	86.60	225,078	13.40	N/A	N/A	1,679,467
1979 <sup>d</sup>	794,504	98.27	13,950	1.73	N/A	N/A	808,454
1980	670,001	91.31	32	0.00	63,724	8.68	733,757
1981	1,606,300	79.87	282,727	14.06	122,198	6.08	2,011,225
1982	1,250,768	84.49	166,756	11.26	62,789	4.24	1,480,313
1983	1,450,832	72.68	318,048	15.93	227,392	11.39	1,996,272
1984	2,474,405	73.93	449,372	13.43	423,292	12.65	3,347,069
1985 <sup>e</sup>	690,698	79.78	123,627	14.28	51,421	5.94	865,746
1986	1,456,729	82.64	188,017	10.67	118,006	6.69	1,762,752
1987	1,659,236	77.99	321,506	15.11	146,886	6.90	2,127,628
1988	675,487	95.77	10,520	1.49	19,320	2.74	705,327
1989	496,044	99.10	<sup>f</sup>	0.00	4,485	0.90	500,529
1990	1,205,575	84.29	107,706	7.53	117,065	8.18	1,430,346
1991 <sup>g</sup>	1,962,583	80.45	324,195	13.29	152,714	6.26	2,439,492
1992 <sup>h</sup>	1,054,309	81.19	150,434	11.58	93,845	7.23	1,298,588
1993	1,495,098	77.72	300,055	15.60	128,536	6.68	1,923,689
1994 <sup>i</sup>	1,632,435	80.61	250,230	12.36	142,350	7.03	2,025,015
1995	1,024,785	79.85	169,530	13.21	89,086	6.94	1,283,401
1996 <sup>j</sup>	1,710,249	79.70	308,327	14.37	127,201	5.93	2,145,777
1997	443,892	100.00	<sup>f</sup>	0.00	<sup>f</sup>	0.00	443,892
1998 <sup>k</sup>	786,466	91.22	8,813	1.02	66,893	7.76	862,172
1999	2,326,811	78.70	456,039	15.43	173,621	5.87	2,956,471
2000	1,509,652	80.11	271,344	14.40	103,419	5.49	1,884,415
2001 <sup>l</sup>	1,134,991	79.41	215,214	15.06	79,037	5.53	1,429,242
2002 <sup>m</sup>	849,980	80.99	136,488	13.01	63,026	6.01	1,049,494
2003	854,673	81.67	121,887	11.65	69,935	6.68	1,046,495
2004	681,139	75.94	160,665	17.91	55,123	6.15	896,927
2005	1,098,718	70.84	274,328	17.69	177,906	11.47	1,550,952
2006	741,887	87.72	41,834	4.95	62,010	7.33	845,731
2007 <sup>n</sup>	601,213	91.97	52,527	8.03	<sup>f</sup>	0.00	653,740
2008	455,199	100.00	<sup>f</sup>	0.00	<sup>f</sup>	0.00	455,199
2009	871,890	83.26	126,968	12.12	48,322	5.54	1,047,180
2010	1,125,135	80.62	185,193	13.27	85,267	7.58	1,395,595
2011	2,277,681	77.77	494,538	16.89	156,637	6.88	2,928,856
2012	1,640,517	78.44	324,895	15.53	126,083	7.69	2,091,495
2013	2,253,424	81.16	354,179	12.76	169,029	7.50	2,776,632

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Year	Chignik		Cape Igvak <sup>a</sup>		Southeastern District Mainland <sup>a</sup>		Total
	Catch <sup>b</sup>	Percent	Catch <sup>b</sup>	Percent	Catch <sup>b</sup>	Percent	
2014	330,302	100.00	f	0.00	f	0.00	330,302
2015	1,014,550	90.67	5,936	0.53	98,473	9.71	1,118,959
2016	1,167,326	74.92	298,470	19.13	94,790	8.12	1,560,586
2017	679,410	80.76	118,101	14.04	43,730	6.44	841,241
2018	128	100.00	f	0.00	f	0.00	128
2019	185,567	100.00	f	0.00	f	0.00	185,567
2020 <sup>o</sup>	f	—	f	—	f	—	0

<sup>a</sup> Through 2001, the Cape Igvak and Southeastern District Mainland figures represent 80% of the total sockeye salmon catch for those areas, based on the premise that 80% of the sockeye salmon caught in those areas are destined for Chignik (excluding sockeye salmon caught in the Northwest Stepovak Section from 1964 to 1991 and during July from 1996 to 2009, and Orzinski Bay from 1992 to 1995). In 2002, for the Cape Igvak fishery, the BOF increased the percentage of the sockeye salmon harvest considered to be Chignik bound from 80% to 90%.

<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 Kodiak Management Area fishers.

<sup>c</sup> In 1978, seining prior to July 11 was disallowed in the Southeastern District Mainland. Set gillnet fisheries were allowed for 3 days per week through July 10, after which the fishery was based on local stock abundance.

<sup>d</sup> From 1979 to 1984, fishing in the Southeastern District Mainland was allowed for 5 days per week prior to July 11, with an estimated ceiling of 60,000 Chignik-bound sockeye. If the Chignik Management Area catch was 1,000,000 or more before July 11, then the ceiling was removed.

<sup>e</sup> Beginning in 1985, the Southeastern District Mainland (excluding the Northwest Stepovak Section and Orzinski Bay) was allowed an allocation of 6.2% of the total harvest of Chignik-bound sockeye salmon through July 25. After July 25 the Southeast District Mainland was managed based on local stock abundance. The allocation level changed to 6.0% beginning in 1988, with seining still not allowed prior to July 11.

<sup>f</sup> No fishery.

<sup>g</sup> Includes overescapement of 208,305 sockeye salmon counted through the Chignik weir during a Chignik Area seiners strike (June 23 to July 4).

<sup>h</sup> Beginning in 1992, after a BOF review of historical records, the allocation of Chignik-bound sockeye salmon to the Southeastern District Mainland fishery (excluding Orzinski Bay) was increased to 7.0%, through July 25.

<sup>i</sup> Includes over-escapement of 208,921 sockeye salmon counted through the Chignik weir during a Chignik Area seiners strike (June 2 to June 25).

<sup>j</sup> In January 1996, the BOF increased the area managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section will be managed by allocation based on Chignik sockeye salmon run strength. Beginning July 1, the Northwest Stepovak Section is managed entirely on local stocks. The BOF also decreased the percentage of Chignik-bound sockeye salmon allocated to the Southeastern District Mainland fishery from 7.0% to 6.0%.

<sup>k</sup> Includes 7,714 sockeye salmon caught on June 18 by the Chignik Seiners Association, and an over-escapement of 52,131 sockeye salmon counted through the weir during the Chignik Seiners Association boycott (June 16 to June 29).

<sup>l</sup> Includes 176,605 sockeye salmon caught June 16–29 by the Chignik Seiners Association, and foregone harvest due to over-escapement of 398,887 in the CMA and 27,896 in the Southeastern District Mainland during the fishermen's strike (June 14 to July 2).

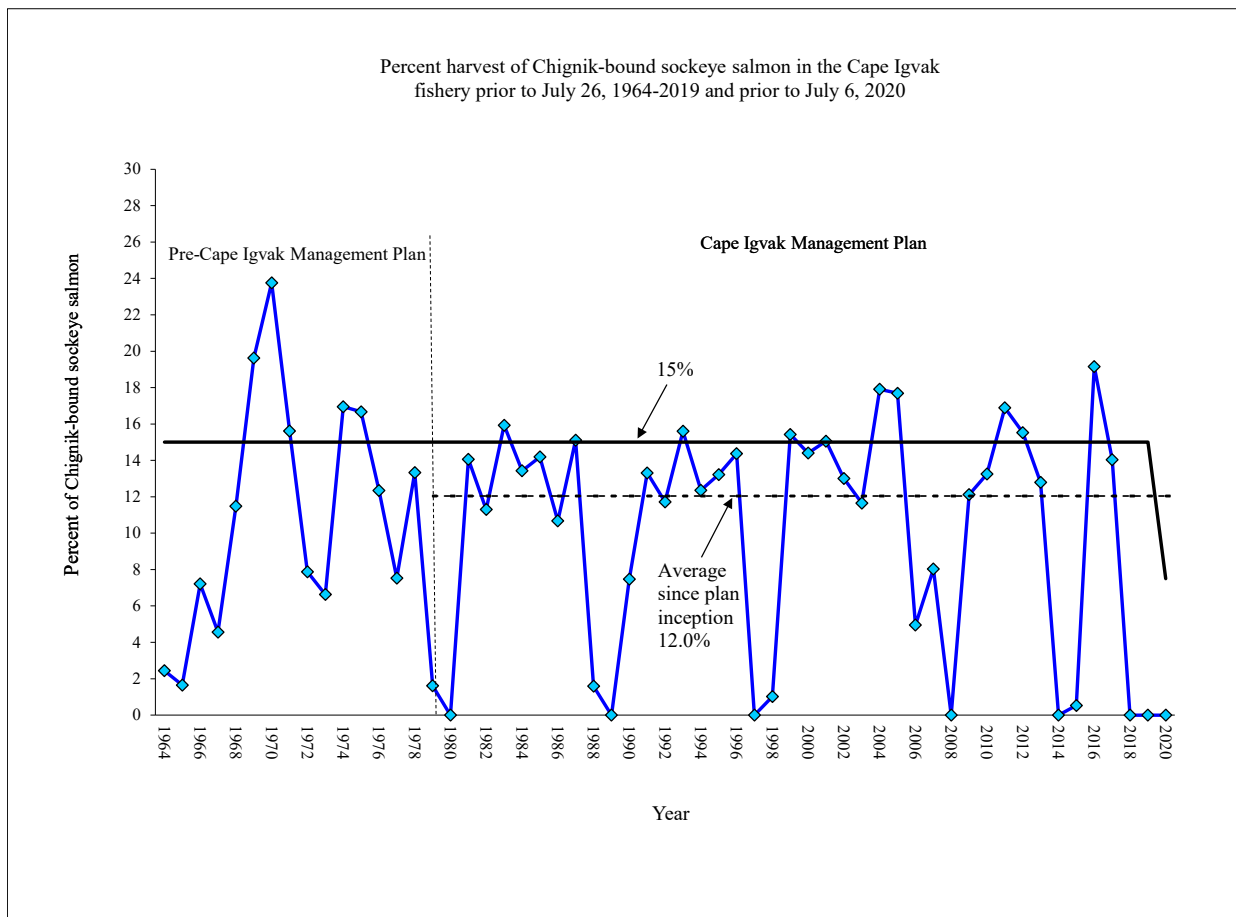
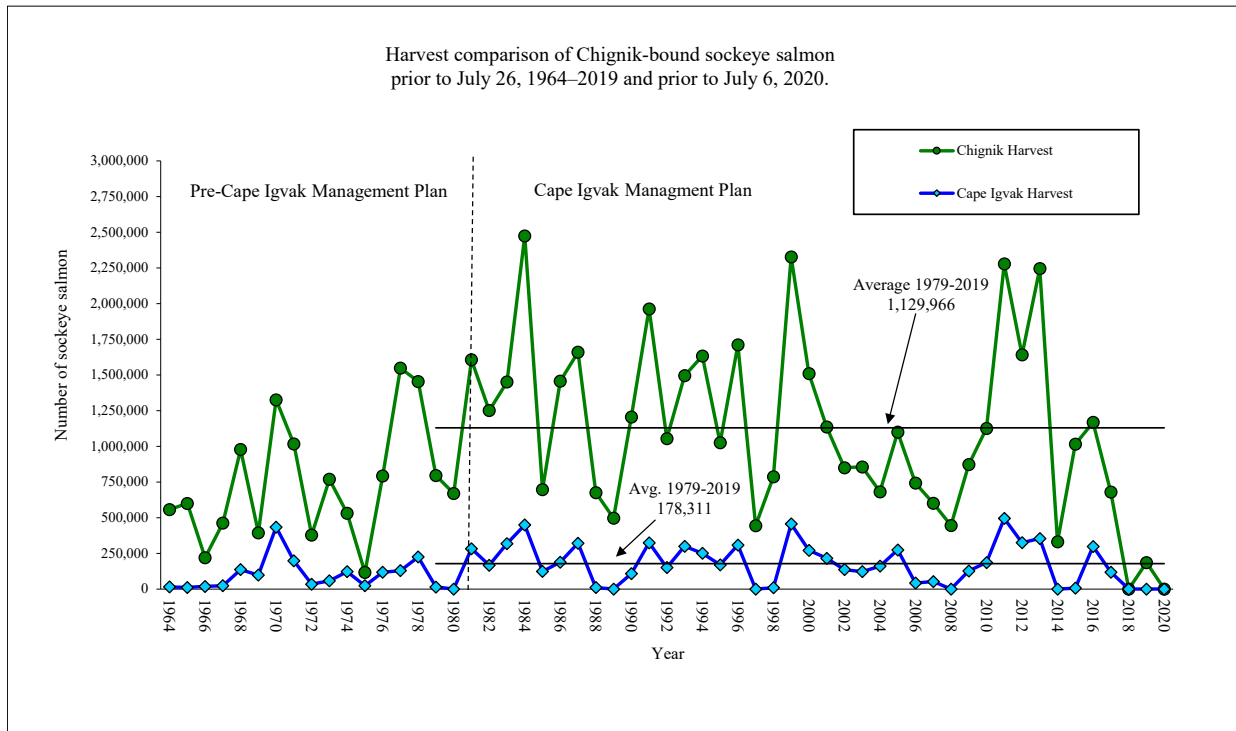
<sup>m</sup> In 2002, the BOF changed the regulations such that 90% (up from 80%) of sockeye salmon harvested in the Cape Igvak Section through July 25 are to be considered Chignik bound.

<sup>n</sup> In 2007, the BOF changed the Southeastern District Mainland allocation from 6.0% of the total Chignik-bound harvest to 7.6% of the total Chignik Area harvest.

<sup>o</sup> In 2019, the BOF changed the Cape Igvak Section allocation from 15% of the total Chignik-bound harvest to 7.5% of the total Chignik-bound harvest and reduced the allocation period from June 1 through July 25 to June 1 through July 5. Additionally, the Cape Igvak Section is only allowed to fish if there is an expected Chignik Area sockeye salmon harvest of at least 600,000 fish by July 6.



## Appendix C4.—Impact of the Cape Igvak Salmon Management Plan.





## **APPENDIX D. ALITAK DISTRICT FISHERY SUMMARY**

## INTRODUCTION

Within the Alitak District fishery set gillnet and seine are legal gear types for commercial salmon fishing. Set gillnets are allowed only in the inside waters of the Alitak Bay, Moser Bay, and Olga Bay Sections, whereas seine gear is limited to the outer waters of the Cape Alitak and Humpy-Deadman Sections until September 5 (5 AAC 18.330(d)(2); Appendix D2). Prior to the mid-1980s, various strategies were applied in the Alitak District to conserve and build sockeye salmon stocks returning to the Frazer, Akalura, and Upper Station systems, while offering some protection to local minor system sockeye, pink, chum, and coho salmon stocks. In the fall of 1987, the existing harvest strategy was formalized into a regulatory management plan and was adopted by the Board of Fisheries (BOF; 5AAC 18.361). This plan details the key species and targeted stocks managed in each section of the district throughout the fishing season (Jackson 2020). This management plan has been in effect since 1988 and was most recently revised by the BOF in 2020.

### **Recent Board of Fisheries Actions:**

Most of the changes to the *Alitak District Salmon Management Plan* are directed at early run sockeye salmon management between June 1 and July 15. The changes are aimed at achieving the Frazer sockeye salmon biological escapement goal (BEG) of 75,000 to 170,000 fish while meeting the smaller Upper Station early-run sockeye salmon BEG of 43,000 to 93,000 fish. These 2 salmon runs have overlapping run timing and Upper Station is located further into Olga Bay than the Frazer system (Appendix D2).

Previous BOF actions directed the department to focus management on the larger Frazer sockeye salmon run by establishing an Upper Station early-run sockeye salmon optimal escapement goal (OEG) of 25,000 fish (Prokopowich 1999). Since the Upper Station early-run OEG was lower than the Upper Station early-run sustainable escapement goal (SEG), management was focused on the larger Frazer sockeye salmon run. As a result, Upper Station early-run often achieved the OEG but failed to meet the SEG.

Beginning in 2014, the BOF eliminated the staggered opening and closing times for the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay Sections. Deleting this allocative language better enabled the department to pulse fish into Olga Bay. The BOF also liberalized the criteria for opening the terminal Dog Salmon Flats Section. Beginning in 2014, the Dog Salmon Flats Section could open prior to exceeding the Frazer sockeye salmon escapement goal.

In 2017, the BOF mandated the department to manage the Upper Station sockeye salmon early-run for the BEG instead of the OEG (5 AAC 18.361(c); Fuerst et al. 2019). The BOF also deleted language directing the department to manage the commercial fishery to the extent possible in the traditional fisheries located in the Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay Sections. Removing this language enables the department to restrict the commercial fishery to the nontraditional terminal Dog Salmon Flats Section. The BOF further removed language directing the department to manage the Frazer sockeye salmon run for maximum sustained yield. All of these changes allow the department more flexibility to manage for the Frazer BEG and the Upper Station BEG.

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## **2020 Alitak Fishery**

The total run forecast for the Upper Station early run was 80,000 sockeye salmon, with an estimated harvestable surplus of approximately 15,000 fish. The 2020 total run forecast for the Frazer Lake system was 407,000 sockeye salmon (Brenner et al. 2020), with an estimated harvestable surplus of approximately 270,000 sockeye salmon. The total run forecast for Upper Station late run was 263,000 sockeye salmon, with an estimated harvestable surplus of approximately 77,000 sockeye salmon (Brenner et al. 2020).

The early-run Upper Station sockeye salmon run has a biological escapement goal (BEG) of 43,000 to 93,000 fish. The 2020 target sockeye salmon escapement for Upper Station early run was based on a maximum sustained yield calculation of 65,000 fish (McKinley et al. 2019). The Frazer Lake sockeye salmon BEG range is 75,000 to 170,000 fish. The 2020 targeted sockeye salmon escapement for Frazer Lake was based on a maximum sustained yield calculation of 117,000 fish (McKinley et al. 2019). Frazer sockeye salmon escapement are first enumerated through a lower weir near the outlet of the Dog Salmon River (Dog Salmon weir) and then enumerated through the fish pass (Frazer Lake fish pass) below the outlet of the lake. Some sockeye salmon that have been enumerated at the Dog Salmon weir do not ascend the Frazer fish pass and remain in Dog Salmon Creek. For the past 5 years the number of sockeye salmon remaining in the river has averaged approximately 16,345 fish. The 2020 targeted Dog Salmon weir sockeye salmon escapement was determined to be 137,000 fish. However, if appropriate, the Dog Salmon weir target escapement goal will also be further increased to account for jack sockeye salmon (jacks). The department defines jack sockeye salmon as sexually mature males that return after only 1 year in the ocean. The Upper Station late run has a BEG of 120,000 to 265,000 fish. The 2020 target sockeye salmon escapement for the Upper Station late run was based on a maximum sustained yield calculation of 186,000 fish (McKinley et al. 2019).

### **Frazer Jack Salmon and Alitak Salmon Management**

In some years, the Frazer Lake sockeye salmon run has included a large number of jacks. In order to increase the absolute number of large adult spawners, the Frazer Lake target sockeye salmon escapement is further increased to account for excess jacks. When the total number of jacks counted through Dog Salmon weir exceeds 10% of the overall cumulative sockeye salmon counted through the weir, then jacks in excess of 10% are not considered toward the inseason management objectives.

### **Olga Bay, Moser Bay, Alitak Bay, and Cape Alitak Salmon Management**

With the exception of the nontraditional gillnet only terminal harvest areas (including the Dog Salmon Flats Section; Appendix D2), the Alitak District is managed from June 1 through June 30 based on sockeye salmon returning to both the Frazer and Upper Station systems. Early-run sockeye salmon escapement through Upper Station weir was relatively weak while Dog Salmon weir experienced several days of strong escapement between June 18 and June 21 (Fuerst 2021).

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On June 27, the department announced a 57-hour commercial salmon fishing period in the traditional fishing areas of the Alitak District (both seine and gillnet) and nontraditional Dog Salmon Flats Section. Sockeye salmon harvest was below average, and the Alitak District closed on June 30 (Appendix B1).

By regulation, the Alitak District is managed from July 1 through July 15 based on sockeye salmon returning to either the Frazer system or the Upper Station system. By July 2, escapement of both Dog Salmon Creek sockeye salmon and Upper Station early-run escapement began to increase (Fuerst 2021), and the department opened the Alitak District (including the Dog Salmon Flats Section) for 81 hours beginning July 4. Dog Salmon Creek sockeye salmon escapement continued to track above the target escapement goal of 140,000 fish, and the fishery was extended for an additional 48 hours. Sockeye salmon harvest continued to be below average, and the fishery closed on July 8 (Appendix B1).

In early July, Dog Salmon Creek sockeye salmon escapement counts indicated that there would be a large amount of jack salmon in 2020 (Fuerst 2021). Because jack salmon are almost always male, to attain a more appropriate sex ratio on large jack sockeye salmon years, the department targets the upper end of the Frazer sockeye salmon escapement goal. Early pink salmon escapement also indicated that the pink salmon run to Dog Salmon Creek would be strong. After a 4-day closure, both the Dog Salmon Creek sockeye and pink salmon escapement was above average, and the lower escapement goal value of the Upper Station early-run sockeye salmon was achieved. The department opened the Alitak District (except the Dog Salmon Flats Section) to commercial salmon fishing for 81 hours on July 13. The final 2020 early-run sockeye salmon escapement at Upper Station weir (through July 15) was 56,190 sockeye salmon which is within the established BEG of 43,000 to 93,000 fish.

By regulation, the traditional sockeye salmon fishing areas of the Alitak District are managed from July 16 through August 9 based on sockeye returning to either the Frazer system or to the Upper Station system. Throughout late July and early August Dog Creek sockeye salmon and Upper Station late-run sockeye salmon runs were average allowing for four commercial salmon fishing periods.

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The final 2020 sockeye salmon escapement at Dog Salmon weir was 181,384 fish (Fuerst 2021). The Dog Salmon Creek weir was removed on August 11. The final 2020 Frazer fish pass escapement was 137,570 sockeye salmon, within the established BEG of 75,000 to 170,000 fish (McKinley et al. 2020; Fuerst 2021). The Frazer fish pass was closed after counts were completed on August 31. A total of 37,209 jacks (20.5% of the Dog Salmon escapement) passed Dog Salmon weir. A total of 23,420 jacks (17.0% of the Frazer escapement) passed the Frazer fish pass, bringing the non-jack adult total sockeye salmon escaped into Frazer Lake to 114,150 fish. A total of 399,802 pink salmon also escaped into Dog Salmon Creek (Table 4).

By regulation, the traditional sockeye salmon fishing areas of the Alitak District are managed from August 10 through August 25 based on late-run sockeye returning to the Upper Station system. Upper Station late-run sockeye escapement was average during the month of August which allowed for several extended fishing periods in the traditional areas of the Alitak District (Fuerst 2021). The commercial salmon fishery remained open for the entire month of September in the traditional sockeye salmon fishing areas of the Alitak District although very little commercial fishing occurred. The final 2020 Upper Station late-run sockeye salmon escapement of 195,147 fish was within the BEG of 120,000 to 265,000 (McKinley et al. 2019; Fuerst 2021). The 2020 Upper Station coho salmon escapement was above average at 11,139 fish (Table 4).

### **Humpy-Deadman Section Salmon Management**

The Humpy-Deadman Section (HDS) is managed from June 1 to July 15 with equal fishing time with the Cape Alitak Section. After July 15, HDS is managed based on the strength of the local salmon returns. The entire Alitak District, including the Humpy-Deadman Section, was open for 81 hours with the second general pink salmon opening. On July 20, the Humpy-Deadman Section reopened with the third general pink salmon commercial fishing period. Early pink salmon escapement to the Deadman system was above average, but pink salmon harvest was below average, and the Humpy-Deadman Section closed as scheduled. After a short closure, on July 27 the Humpy-Deadman Section reopened, although harvest was below average. Aerial surveys in early August indicated that the major systems of the Alitak District had adequate escapement which allowed for an extended commercial salmon fishing period from August 12 through August 24. In total, 632,220 pink salmon were harvested in the HDS, and the Alitak District pink salmon escapement was 1,005,465 fish.

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### **Season Totals**

In 2020, set gillnet harvest in the Olga Bay Section (statistical area 257-40) by 18 permit holders included 20,607 sockeye, 526 coho, 40,855 pink, and 188 chum salmon (Appendix D3). Set gillnet harvest in the Moser Bay Section (statistical area 257-43) by 20 permit holders included 64,873 sockeye, 2,378 coho, 129,633 pink, and 655 chum salmon (Appendix D3). Set gillnet harvest in the Alitak Bay Section (statistical area 257-41) by 17 permit holders included 1 Chinook, 23,827 sockeye, 1,427 coho, 113,894 pink, and 1,558 chum salmon (Appendix D3). Set gillnet harvest in the Dog Salmon Flats Section (statistical area 257-42) by 13 permit holders included 15,505 sockeye, 197 coho, 1,487 pink, and 240 chum salmon (Appendix D3).

In 2020, purse seine harvest in the Cape Alitak Section (statistical areas 257-10 and -20) by 34 permit holders included 58 Chinook, 88,223 sockeye, 19,947 coho, 358,218 pink, and 2,482 chum salmon (Appendix D4). Seine harvest in the HDS (statistical areas 257-50, -60, and -70) by 30 permit holders included 21 Chinook, 37,905 sockeye, 6,391 coho, 627,370 pink and 3,296 chum salmon (Appendix D4). Additional purse seine harvests occurred in the Olga Bay Section (257-40) but are confidential due to less than 3 permits participating.

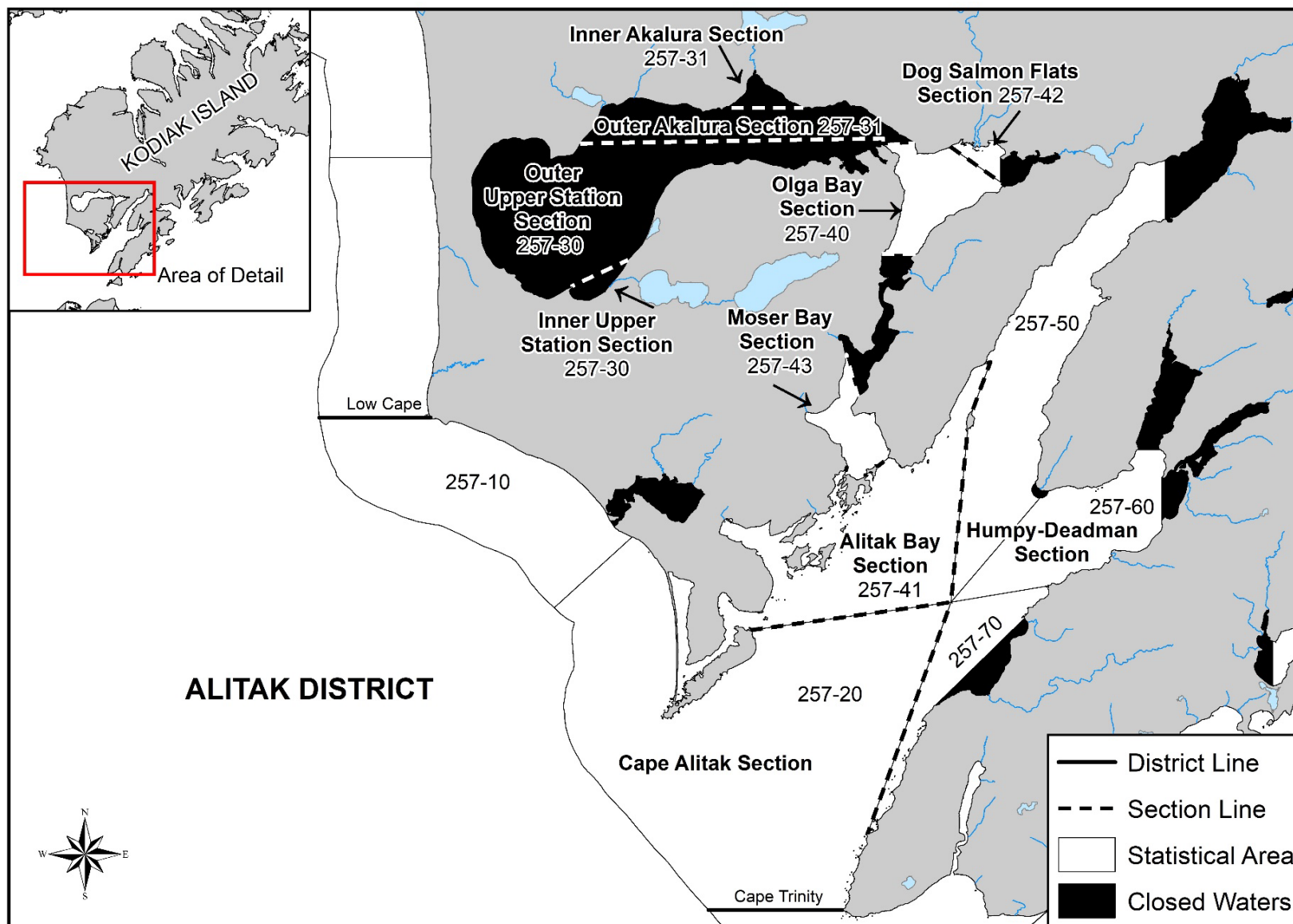
A total of 41 purse seine permit holders fished in the Alitak District in 2020 with a total harvest of 79 Chinook (99% of the total Alitak District Chinook harvest), 129,027 sockeye (50%), 27,892 coho (86%), 989,462 pink (77%), and 6,021 chum salmon (69%; Appendices D4, D5, and D6). A total of 41 gillnet permit holders fished in Alitak District and harvested 1 Chinook (1%), 126,651 sockeye (50%), 4,624 coho (14%), 299,883 pink (23%), and 2,763 chum salmon (31%; Appendices D3, D5, and D6).

### **REFERENCES CITED**

- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage.
- Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21-04, Kodiak.
- Fuerst, B. A., J. Jackson, and A. E. Dorner. 2019. Kodiak management area harvest strategy for the 2019 commercial salmon fishery. Alaska Department of Fish and Game, Regional Information Report No. 4K19-06, Kodiak.
- Jackson, J. 2020. Kodiak management area harvest strategy for the 2020 commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report 4K20-08, Kodiak.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.
- Prokopowich, D. 1999. Kodiak area commercial salmon fishery harvest strategy, 1999. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K99-38, Anchorage.



Appendix D2.—Map of the Alitak District showing sections, statistical areas, and closed waters, 2020.



Appendix D3.—Set gillnet daily salmon harvest, by species and section, for the Alitak District, 2020.

Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Olga Bay	27-Jun	4	5	0	0	2,076	8,641	0	0	1	3	16	137
Section	28-Jun	6	7	0	0	1,279	5,380	0	0	0	0	8	51
257-40	29-Jun	3	3	0	0	406	1,720	0	0	0	0	2	17
	4-Jul	5	5	0	0	900	4,107	0	0	2	6	5	44
	5-Jul	8	8	0	0	481	2,205	0	0	0	0	6	48
	6-Jul	4	4	0	0	403	1,686	0	0	0	0	1	7
	7-Jul	4	4	0	0	180	771	0	0	2	6	3	27
	8-Jul	5	5	0	0	337	1,514	1	8	3	10	1	5
	9-Jul	4	5	0	0	271	1,116	0	0	3	13	1	8
	13-Jul	5	5	0	0	277	1,349	0	0	22	96	15	135
	14-Jul	3	3	0	0	104	447	0	0	5	16	1	10
	15-Jul	4	4	0	0	66	264	0	0	9	37	1	5
	21-Jul	5	5	0	0	439	2,069	0	0	288	1,020	5	36
	22-Jul	5	5	0	0	416	1,998	0	0	294	999	1	7
	23-Jul	6	6	0	0	311	1,384	1	9	186	646	1	9
	27-Jul	5	6	0	0	713	3,454	0	0	1,120	4,295	9	83
	28-Jul	7	9	0	0	628	3,021	0	0	909	3,685	10	74
	29-Jul	8	9	0	0	492	2,307	1	5	929	3,753	4	31
	30-Jul	6	7	0	0	325	1,432	0	0	966	3,858	3	20
	31-Jul	6	7	0	0	194	876	0	0	440	1,763	3	30
	3-Aug	9	15	0	0	887	4,256	4	24	4,478	19,894	9	67
	4-Aug	8	12	0	0	715	3,534	3	17	2,811	12,103	5	35
	5-Aug	6	10	0	0	616	3,005	1	6	3,832	16,290	5	31
	6-Aug	7	12	0	0	475	2,232	0	0	2,846	11,666	2	15
	7-Aug	5	7	0	0	239	1,108	2	16	1,577	6,428	7	51
	11-Aug	5	9	0	0	658	3,311	3	22	1,786	7,402	6	59
	12-Aug	6	9	0	0	788	3,880	15	114	3,138	12,670	2	13
	13-Aug	3	9	0	0	359	1,779	15	102	3,064	12,948	5	36
	14-Aug	5	10	0	0	361	1,727	19	130	2,441	10,616	4	33

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Olga Bay	15-Aug	4	6	0	0	344	1697	15	92	2538	11013	6	43
Section	16-Aug	4	5	0	0	214	1,138	5	40	674	3,039	0	0
257-40	22-Aug	3	4	0	0	444	2,398	20	152	739	3,043	2	14
(continued)	23-Aug	3	4	0	0	315	1,698	33	240	866	3,562	6	41
	24-Aug <sup>a</sup>												
	25-Aug	3	4	0	0	414	2,331	14	124	508	2,266	1	7
	26-Aug	3	7	0	0	776	4,092	44	335	808	3,613	4	30
	27-Aug	4	5	0	0	484	2,615	46	359	619	2,732	2	19
	28-Aug	3	6	0	0	517	2,753	46	394	620	2,774	0	0
	29-Aug <sup>a</sup>												
	1-Sep <sup>a</sup>												
	2-Sep	3	4	0	0	230	1,253	70	560	304	1,295	15	106
	3-Sep	3	7	0	0	260	1,429	25	172	407	1,760	6	40
	4-Sep	3	5	0	0	122	605	34	254	337	1,472	0	0
	5-Sep <sup>a</sup>												
	6-Sep <sup>a</sup>												
	7-Sep <sup>a</sup>												
	8-Sep	3	5	0	0	113	619	4	35	11	40	0	0
Total		18	281	0	0	20,607	98,550	526	4,032	40,855	172,209	188	1,465
Average weight (lb)					0.0		5.20		8.67		4.80		8.18
Moser Bay	27-Jun	5	5	0	0	746	3,146	0	0	1	4	2	10
Section	28-Jun	7	9	0	0	1,082	4,790	0	0	0	0	5	21
(257-43)	29-Jun	6	9	0	0	706	3,125	0	0	1	3	7	36
	4-Jul	5	5	0	0	806	3,611	0	0	10	25	16	114
	5-Jul	5	7	0	0	756	3,436	1	4	3	8	8	50
	6-Jul	6	8	0	0	774	3,489	0	0	4	17	8	53
	7-Jul	6	8	0	0	1,554	7,014	2	9	23	61	17	93
	8-Jul	6	9	0	0	1,435	6,544	0	0	29	91	13	85
	9-Jul	6	10	0	0	1,251	5,622	0	0	35	87	6	39

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Moser Bay	28-Aug	7	12	0	0	2,542	12,710	90	629	1,707	6,586	11	86
Section	29-Aug	4	6	0	0	989	5,007	48	332	696	2,700	11	93
(257-43)	1-Sep	4	4	0	0	731	3,802	135	985	693	2,830	13	109
(continued)	2-Sep	5	8	0	0	1,174	6,011	69	545	719	2,812	13	78
	3-Sep	7	10	0	0	1,041	5,431	39	312	476	1,988	8	60
	4-Sep	7	9	0	0	249	1,248	10	82	169	639	4	33
	5-Sep	3	4	0	0	257	1,293	22	183	81	295	1	5
	6-Sep <sup>a</sup>												
	7-Sep <sup>a</sup>												
Total		20	522	0	0	64,873	310,620	2,378	16,353	129,633	494,950	655	4,590
Average weight (lb)					0.0		5.20		8.67		4.80		8.18
Alitak Bay	27-Jun <sup>a</sup>	1	1	0	0	75	262	0	0	0	0	2	16
Section	28-Jun	6	6	0	0	509	2,103	0	0	3	11	3	17
(257-41)	29-Jun	4	6	1	12	436	1,882	0	0	4	15	10	59
	4-Jul	3	3	0	0	321	1,463	0	0	25	73	11	94
	5-Jul	4	6	0	0	557	2,524	1	4	31	104	23	164
	6-Jul	4	5	0	0	456	2,139	0	0	31	110	24	215
	7-Jul	3	3	0	0	134	602	0	0	7	21	7	59
	8-Jul	3	3	0	0	277	1,312	1	7	51	214	24	198
	9-Jul	5	10	0	0	563	2,612	5	30	204	670	49	345
	13-Jul	6	6	0	0	365	1,752	1	5	370	1,116	23	167
	14-Jul	6	7	0	0	400	1,869	5	30	316	939	21	151
	15-Jul	7	9	0	0	348	1,575	3	17	302	971	10	71
	16-Jul	4	6	0	0	162	754	1	7	46	175	5	35
	21-Jul	5	5	0	0	175	794	4	28	932	3,237	20	140
	22-Jul	7	11	0	0	553	2,575	5	35	2,645	9,346	246	1,182
	23-Jul	7	11	0	0	541	2,464	2	12	3,343	11,756	80	568
	27-Jul	8	12	0	0	600	2,700	6	42	3,798	13,465	27	193
	28-Jul	8	13	0	0	607	2,915	23	135	5,681	22,895	66	470

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alitak Bay Section (257-41)	29-Jul	8	18	0	0	640	3,033	27	163	5,688	20,291	55	381
	30-Jul	6	9	0	0	407	1,870	7	45	4,923	17,368	56	396
	31-Jul	7	11	0	0	411	1,827	13	82	3,079	11,156	22	149
	3-Aug	10	10	0	0	350	1,589	15	92	4,881	17,080	32	226
	4-Aug	9	17	0	0	780	3,631	29	192	8,495	31,293	82	489
	5-Aug	8	14	0	0	900	4,184	14	98	7,794	28,935	49	347
	6-Aug	7	12	0	0	679	3,123	19	151	7,891	33,717	55	444
	7-Aug	6	9	0	0	799	3,631	12	82	7,277	29,311	31	243
	11-Aug	6	9	0	0	534	2,690	22	154	5,218	21,153	22	169
	12-Aug	11	14	0	0	666	3,238	48	344	5,704	22,281	32	240
	13-Aug	9	18	0	0	1,464	7,277	60	404	7,753	32,933	44	346
	14-Aug	10	16	0	0	925	4,658	33	234	5,304	22,772	13	102
	15-Aug	9	13	0	0	1,075	5,400	25	199	4,723	21,261	32	254
	16-Aug	8	10	0	0	664	3,358	22	153	4,135	16,213	18	126
	22-Aug	5	7	0	0	442	2,166	66	447	1,822	7,686	47	376
	23-Aug	7	8	0	0	668	3,435	78	473	2,495	9,379	49	412
	24-Aug	4	6	0	0	612	3,246	129	900	2,150	9,927	67	515
	25-Aug	5	11	0	0	1,012	5,560	203	1,468	2,263	10,172	68	528
	26-Aug	7	10	0	0	700	3,607	122	951	1,499	5,815	38	298
	27-Aug	5	7	0	0	500	2,604	127	940	1,311	4,979	35	272
	28-Aug	4	4	0	0	473	2,447	18	161	394	1,879	2	16
	29-Aug <sup>a</sup>												
	1-Sep <sup>a</sup>												
	2-Sep	5	8	0	0	719	3,682	83	676	567	2,143	21	154
	3-Sep	5	7	0	0	484	2,662	62	490	363	1,380	15	115
	4-Sep	5	7	0	0	256	1,443	30	280	196	746	9	78

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alitak Bay	7-Sep <sup>a</sup>												
Section	8-Sep <sup>a</sup>												
(257-41)	9-Sep <sup>a</sup>												
Total		17	385	1	12	23,827	115,577	1,427	10,364	113,894	445,679	1,558	10,924
Average weight (lb)					0.0		5.20		8.67		4.80		8.18
Dog Salmon	27-Jun	6	8	0	0	1,933	8,414	0	0	0	0	0	0
Flats Section	28-Jun	7	12	0	0	2,742	10,532	0	0	0	0	4	29
(257-42)	29-Jun	4	5	0	0	1,703	6,403	0	0	0	0	5	42
(continued)	4-Jul	6	10	0	0	2,306	8,347	0	0	2	6	4	36
	5-Jul	3	8	0	0	1,065	3,728	0	0	0	0	5	49
	6-Jul	4	7	0	0	933	3,276	0	0	0	0	8	70
	7-Jul <sup>a</sup>												
	8-Jul	3	4	0	0	1,236	4,267	0	0	0	0	7	75
	9-Jul	6	7	0	0	1,878	7,336	0	0	1	4	6	55
	12-Aug <sup>a</sup>												
	13-Aug <sup>a</sup>												
	14-Aug <sup>a</sup>												
	15-Aug <sup>a</sup>												
	16-Aug <sup>a</sup>												
	17-Aug <sup>a</sup>												
	18-Aug <sup>a</sup>												
	19-Aug	3	7	0	0	82	334	20	142	1,374	5,090	10	73
	20-Aug <sup>a</sup>												
	21-Aug	3	5	0	0	89	405	89	732	1,346	5,539	38	289
	22-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
	24-Aug <sup>a</sup>												
Total		13	106	0	0	15,505	58,638	197	1,487	10,009	40,584	240	1,980
Average weight (lb)					0.0		5.20		8.67		4.80		8.18

-continued-

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Humpy- Deadman (257-50)	20-Jul <sup>a</sup>												
	21-Jul <sup>a</sup>												
	18-Aug	3	4	0	0	176	1,049	4	36	665	3,346	10	88
	19-Aug	4	6	0	0	309	1,544	3	20	695	2,935	9	61
	20-Aug	3	7	0	0	491	2,635	43	357	1,130	4,624	37	262
	21-Aug	3	4	0	0	257	1,225	15	90	673	2,554	28	236
	22-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
Total		5	28	0	0	1,695	8,577	96	726	4,850	19,414	121	944
Average weight (lb)					0.00		5.06		7.56		4.00		7.80
Grand total		41	1,322	1	12	126,507	591,962	4,624	32,962	299,241	1,172,836	2,762	19,903
Average weight (lb)					12.00		4.68		7.13		3.92		7.21

<sup>a</sup> Confidential.

Appendix D4.—Purse seine daily salmon harvest, by species and section, for the Alitak District, 2020.

Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Cape Alitak	27-Jun	9	9	1	8	5,224	21,569	0	0	236	653	177	1,261
Section	29-Jun	3	3	0	0	1,965	8,474	0	0	64	177	38	344
(257-10 and 20)	4-Jul	6	6	1	11	3,893	18,361	13	70	345	1,123	115	972
	6-Jul	5	5	0	0	1,901	8,847	9	56	142	426	79	609
	7-Jul <sup>a</sup>												
	9-Jul <sup>a</sup>												
	13-Jul	6	6	22	311	5,647	26,385	20	127	3,733	11,198	152	1,125
	15-Jul	5	5	6	42	3,474	14,951	27	171	6,252	18,753	130	902
	23-Jul <sup>a</sup>												
	27-Jul <sup>a</sup>												
	28-Jul <sup>a</sup>												
	29-Jul <sup>a</sup>												
	30-Jul <sup>a</sup>												
	31-Jul <sup>a</sup>												
	3-Aug	5	5	21	389	2,454	12,265	110	778	40,721	150,691	133	893
	4-Aug <sup>a</sup>												
	5-Aug <sup>a</sup>												
	6-Aug <sup>a</sup>												
	7-Aug	3	3	1	15	1,425	6,416	61	418	25,936	88,359	65	384
	11-Aug	3	3	0	0	806	4,380	373	2,510	17,441	64,004	201	1,412
	13-Aug	3	4	0	0	3,667	18,349	593	3,349	44,110	136,140	159	976
	14-Aug	4	4	0	0	2,380	12,325	123	821	15,973	60,869	72	492
	15-Aug	3	3	0	0	976	4,913	67	521	9,817	37,807	13	98
	16-Aug	3	3	0	0	1,283	6,808	170	1,309	12,749	48,643	108	722
	22-Aug	3	3	0	0	973	5,266	386	2,718	11,463	40,614	62	476
	23-Aug	4	4	0	0	1,578	9,279	926	8,465	12,736	50,247	55	407
	24-Aug	3	3	0	0	697	4,302	1,181	8,025	6,201	26,038	30	205
	25-Aug	3	3	0	0	2,819	16,873	1,721	9,669	15,384	55,785	13	88
	26-Aug	4	4	0	0	3,010	16,623	1,925	16,695	6,656	29,843	62	497

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Cape Alitak	27-Aug <sup>a</sup>												
Section	28-Aug	4	4	0	0	3,818	18,784	1,200	11,601	7,091	30,015	18	149
(257-10 and 20)	29-Aug	5	5	0	0	2,376	12,391	1,010	6,439	10,207	39,641	18	115
(continued)	1-Sep <sup>a</sup>												
	2-Sep <sup>a</sup>												
	3-Sep	6	6	0	0	6,037	30,720	2,280	20,134	7,247	23,674	80	537
	5-Sep <sup>a</sup>												
	6-Sep <sup>a</sup>												
	8-Sep <sup>a</sup>												
	9-Sep <sup>a</sup>												
	10-Sep <sup>a</sup>												
	12-Sep <sup>a</sup>												
	13-Sep <sup>a</sup>												
	15-Sep <sup>a</sup>												
	18-Sep <sup>a</sup>												
	21-Sep <sup>a</sup>												
	23-Sep <sup>a</sup>												
Total		34	127	58	887	88,223	428,819	19,947	156,333	358,218	1,303,888	2,482	17,273
Average weight (lb)					15.29		4.86		7.84		3.64		6.96
Humpy-Deadman	27-Jun	3	3	0	0	1,062	4,991	0	0	6	17	71	492
Section	28-Jun <sup>a</sup>												
(257-50, 60, and 70)	29-Jun <sup>a</sup>												
	4-Jul	4	4	9	80	2,888	12,034	7	44	131	390	159	1,183
	5-Jul <sup>a</sup>												
	6-Jul <sup>a</sup>												
	13-Jul <sup>a</sup>												
	20-Jul	7	7	0	0	2,816	13,086	4	28	18,316	58,024	186	1,266
	22-Jul	3	3	0	0	1,181	5,317	8	45	23,460	76,245	151	1,053
	23-Jul	3	3	0	0	166	745	0	0	8,046	26,152	102	720

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Humpy-Deadman	27-Jul	6	6	0	0	1,423	7,110	0	0	31,966	111,881	113	796
Section	28-Jul	4	4	2	32	878	4,395	32	223	19,649	83,297	84	616
(257-50, 60, and 70)	29-Jul	6	7	1	12	1,076	5,211	15	120	37,235	151,121	80	597
(continued)	30-Jul	3	3	6	90	1,483	7,418	64	355	15,660	78,300	82	661
	31-Jul	4	4	0	0	306	1,536	14	99	9,827	49,136	45	354
	3-Aug	7	7	0	0	510	2,543	15	113	48,658	195,747	200	1,454
	4-Aug	8	8	0	0	1,353	6,637	97	755	32,570	147,353	136	1,026
	5-Aug	5	5	0	0	658	3,335	22	141	39,137	158,460	123	977
	6-Aug	4	4	0	0	292	1,396	26	175	21,665	94,764	94	765
	7-Aug	6	6	0	0	395	1,907	24	179	20,141	78,360	142	920
	11-Aug	8	8	0	0	569	2,809	56	392	40,324	156,698	126	877
	12-Aug	4	5	0	0	485	2,380	27	176	27,223	97,719	96	700
	13-Aug	3	3	0	0	344	1,658	3	22	7,859	34,285	18	141
	14-Aug	3	3	0	0	2,076	10,083	147	748	18,903	78,389	36	245
	15-Aug	6	6	2	36	2,928	16,030	145	1,157	44,741	163,482	127	952
	16-Aug	5	5	0	0	1,417	8,212	110	875	25,092	108,021	64	512
	17-Aug	4	4	0	0	217	1,130	37	239	8,692	33,255	162	1,384
	18-Aug	4	4	0	0	332	1,964	61	503	8,590	42,956	68	557
	19-Aug	5	5	0	0	1,178	5,903	279	2,160	16,930	67,127	71	546
	20-Aug	7	7	0	0	2,436	13,648	610	4,675	36,577	166,768	193	1,448
	21-Aug	4	4	0	0	551	3,245	245	1,975	9,193	45,970	49	397
	22-Aug	5	5	0	0	1,401	7,990	681	5,378	13,978	64,412	94	749
	23-Aug	3	3	0	0	597	3,529	375	3,153	5,323	26,620	28	229
	24-Aug <sup>a</sup>												
	25-Aug	4	4	0	0	949	5,604	660	5,912	9,610	48,057	82	670
	26-Aug	3	3	0	0	1,062	5,714	685	5,549	8,540	36,756	54	404
	27-Aug <sup>a</sup>												

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Statistical area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Humpy-Deadman Section (257-50, 60, and 70) (continued)	1-Sep 2-Sep <sup>a</sup> 3-Sep <sup>a</sup> 4-Sep <sup>a</sup>	4	4	0	0	1,301	7,745	1,200	10,176	9,462	31,767	102	725
Total		30	159	21	255	37,905	192,300	6,391	51,300	627,370	2,547,921	3,296	24,583
Average weight (lb)					12.14		5.07		8.03		4.06		7.46
Olga Bay Section 257-40	7-Sep <sup>a</sup> 8-Sep <sup>a</sup> 10-Sep <sup>a</sup> 12-Sep <sup>a</sup>												
Total <sup>a</sup>													
Average weight (lb) <sup>a</sup>													
Grand total		41	292	79	1,142	129,027	636,881	27,892	221,510	989,462	3,866,073	6,021	43,691
Average weight (lb)					14.46		4.94		7.94		3.91		7.26

<sup>a</sup> Confidential.

Appendix D5.—Salmon harvest by gear type and species for the Alitak District, 2020.

	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Seine														
Total	41	291	79	1,142	129,027	636,881	27,892	221,510	989,462	3,866,073	6,021	43,691	1,152,481	4,769,296
Average weight (lb)				14.46		4.94		7.94		3.91		7.26		
Set Gillnet														
Total	41	1,308	1	12	126,651	592,698	4,624	32,962	299,883	1,175,531	2,763	19,910	433,922	1,821,113
Average weight (lb)				12.00		4.68		7.13		3.92		7.21		
Year total	82	1,534	80	1,154	255,678	1,229,579	32,516	254,472	1,289,345	5,041,604	8,784	63,600	1,586,403	6,590,408
Average weight (lb)				14.43		4.81		7.83		3.91		7.24		

Appendix D6.—Commercial salmon harvest, by species with percent harvest by gear type, in the Alitak District, 1993–2020.

Year	Chinook <sup>a</sup>			Sockeye <sup>a</sup>			Coho <sup>a</sup>			Pink <sup>a</sup>			Chum <sup>a</sup>			Total <sup>a</sup>		
	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%	Number	GN%	PS%
1993	1,828	10	90	998,751	53	47	19,271	40	60	3,465,473	6	94	53,636	27	73	4,538,959	17	83
1994	1,946	8	92	931,328	54	46	32,312	44	56	1,120,832	9	91	112,191	18	82	2,198,609	29	71
1995	848	15	85	1,674,169	47	53	19,000	47	53	7,065,939	6	94	105,224	17	83	8,865,180	14	86
1996	569	18	82	1,458,215	54	46	35,529	47	53	553,424	39	61	65,250	29	71	2,112,987	49	51
1997	291	31	69	685,635	59	41	33,549	41	59	955,253	15	85	85,710	34	66	1,760,438	33	67
1998	1,487	6	94	1,003,245	57	43	32,185	47	53	1,704,581	26	74	40,554	40	60	2,782,052	37	63
1999	271	12	88	633,579	70	30	13,126	74	26	1,353,933	12	88	79,000	16	84	2,079,909	30	70
2000	433	10	90	558,674	57	43	10,131	51	49	243,161	30	70	67,189	17	83	879,588	47	53
2001	651	11	89	461,785	64	36	2,471	24	76	1,439,930	7	93	52,521	21	79	1,957,358	26	74
2002	13	0	100	14,575	0	100	1,060	0	100	1,078,120	0	100	10,164	0	100	1,103,932	0	100
2003	298	3	97	341,402	67	33	10,592	45	55	497,822	18	82	31,866	22	78	881,980	38	62
2004	1,316	4	96	1,156,539	61	39	15,897	54	46	1,420,188	24	76	38,348	40	60	2,632,288	41	59
2005	602	8	92	777,905	60	40	6,977	56	44	4,193,022	4	96	22,839	40	60	5,001,027	87	13
2006	55	7	93	86,286	76	24	4,449	63	37	2,872,970	5	95	46,904	5	95	3,010,664	7	93
2007	23	26	74	85,469	80	20	2,456	62	38	474,016	15	85	47,931	9	91	609,895	24	76
2008	265	3	97	743,052	63	37	15,390	17	83	712,242	22	88	78,694	7	93	1,549,643	41	59
2009	204	4	96	631,312	64	36	7,883	40	60	3,996,164	3	97	72,497	10	90	4,708,060	11	89
2010	158	3	97	116,065	79	21	14,585	25	75	146,363	44	56	18,843	20	80	296,014	55	45
2011	2,633	1	99	318,208	56	44	6,094	21	79	4,896,501	1	99	44,699	17	83	5,268,135	5	95
2012	224	3	97	361,287	54	46	3,044	35	65	1,563,557	10	90	26,896	12	88	1,955,008	18	82
2013	646	1	99	223,126	60	40	4,056	41	59	2,664,435	1	99	34,324	8	92	2,926,587	6	94
2014	194	5	95	254,517	52	48	4,260	28	72	661,789	9	91	13,601	34	66	934,361	22	78
2015	1,554	1	99	364,946	37	63	19,847	17	83	5,812,572	1	99	52,682	17	83	6,251,601	4	96
2016	377	8	92	183,295	47	53	7,686	23	77	182,615	20	80	12,197	45	55	386,170	29	71
2017	223	0	100	214,898	54	46	17,284	33	67	3,415,116	8	92	117,849	12	88	3,765,370	21	79
2018	226	0	100	277,528	62	38	21,403	41	59	780,486	13	87	29,303	16	84	1,108,946	26	74
2019	311	2	98	330,117	48	52	17,866	3	97	2,082,621	6	94	33,571	28	72	2,464,486	17	83
2020	80	1	99	255,678	50	50	32,516	14	86	1,289,345	23	77	8,784	31	69	1,586,403	24	76
Averages <sup>b</sup>																		
1993–2019	412	17	81	482,745	62	38	13,067	44	56	1,552,171	18	82	56,401	24	76	2,104,790	30	70
2010–2019	655	2	98	264,399	55	45	11,613	27	73	2,220,606	11	89	38,397	21	79	2,535,668	20	80

Note: GN% = gillnet percentage; PS% = purse seine percentage.

<sup>a</sup> ADF&G test fish harvest is not included.



## **APPENDIX E. WESTSIDE FISHERY SUMMARY**

## INTRODUCTION

### Westside Kodiak Harvest Strategy

The *Westside Kodiak Salmon Management Plan* is the result of long-term management strategies that were initially implemented in 1971 and placed into regulation in 1990. Placing the management plan in regulation clarified the management strategy and helped maintain the biological integrity of local salmon stocks while alleviating allocative concerns of local fishers (Prokopowich et al. 1991).

The intent of this management plan is to harvest salmon bound to local systems in traditional fisheries. Due to the mixing of various local salmon stocks during inshore migration, the plan is complex, but it provides a predictable framework for the harvest of sockeye, pink, chum, and coho salmon stocks from the west side of Kodiak. The plan is in effect for the entire salmon season and covers the Southwest and Northwest Kodiak Districts, as well as the Southwest Afognak Section (Appendix E2). The management plan guides the prosecution of early- and late-run sockeye salmon fisheries, including those targeting the major systems of Karluk and Ayakulik and other minor sockeye salmon systems, as well as local pink, chum, and coho salmon fisheries.

### The Northwest Kodiak District and Southwest Afognak Section

The Northwest Kodiak District and the Southwest Afognak Section can be broken up into 2 distinct areas: the outer cape areas and the inner bays. The Central, North Cape, and Southwest Afognak Sections consist of the outer capes between Rocky Point in the west, Cape Paramanof in the north, and Monashka Bay in the east. The inner bays consist of 8 bays in the Northwest Kodiak District: Anton Larsen, Sharatin, Kizhuyak, Terror, Inner Uganik, Spiridon, Zachar, and Inner Uyak (Appendix E2).

### The Central, North Cape, and Southwest Afognak Sections

The Central Section is open to seine and set gillnet gear types. The Southwest Afognak and North Cape Sections are only open to seine gear. In June, these areas are opened and closed based on Karluk Lake early-run sockeye salmon escapement. From June 1 through June 15, ADF&G is directed to open 2 mandatory 33-hour fishing periods. The Southwest Afognak Section can only open for one 33-hour fishing period from June 1 through June 15. From June 15 through July 5, openings are based on the early-run sockeye salmon returning to Karluk Lake.

The pink salmon fishery opens on July 6, and the length of the initial weekly fishing periods is based on the current year's (wild stock) pink salmon forecast. During the peak pink salmon harvest period, from late July to mid-August, fishing periods are adjusted to match the actual strength of pink salmon returning to systems within the Northwest Kodiak District. However, the Southwest Afognak Section is also tied to the allocative considerations of the *North Shelikof Strait Sockeye Salmon Management Plan* between July 6 and July 25 and has a harvest cap of 50,000 sockeye salmon.

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From approximately August 16 through August 24, the Central, North Cape, and Southwest Afognak Sections are opened and closed based on both Karluk Lake late-run sockeye and pink salmon returning to the major systems of the Northwest Kodiak District and Southwest Afognak Section. From August 25 to September 5, these areas are managed based on late-run sockeye salmon returning to Karluk. After September 5, the fishery is managed both on late-run sockeye salmon returning to Karluk and coho salmon returning to the major systems of the Northwest Kodiak District and Southwest Afognak Section. This blended management has allowed for the protection of both Northwest Kodiak District and Southwest Afognak Section pink salmon, as well as Karluk Lake sockeye salmon.

### **Northwest Kodiak District Inner Bays**

The inner bays of the Northwest Kodiak District are open to seine gear only. From June 1 through June 15, ADF&G is directed to open 2 mandatory 33-hour fishing periods, which occur at the same time as those in the Central and North Cape Sections. From June 16 to July 5, openings are based on local sockeye and early-run chum salmon returning to each individual section.

From July 6 through July 31, the inner bays are opened to commercial salmon fishing based on local sockeye, pink, and early-run chum salmon returning to each section. The lengths of the initial weekly fishing periods are based on the current year's (wild stock) pink salmon forecast. However, the inner bays may be closed due to weak early-run chum or sockeye salmon escapement. Openings from August 1 through August 24 are based on pink and late-run chum salmon returning to each individual section. From August 25 through September 5 fishery openings are based on local pink, late-run chum, and coho salmon returning to each individual section. After September 5, openings are based only on coho salmon.

### **The Southwest Kodiak District**

The Southwest Kodiak District is a seine gear only area and extends from Low Cape in the south to Rocky Point in the north. The Southwest Kodiak District can be broken down into 3 different areas: Inner and Outer Karluk Sections in the north, Inner and Outer Ayakulik Sections in the south, and the Halibut Bay and Sturgeon Sections between the two. Management decisions within the Inner and Outer Karluk Sections are primarily determined by salmon returning to the Karluk system. The Inner and Outer Ayakulik Sections are managed on salmon returning to the Ayakulik system. The Halibut Bay and Sturgeon Sections are managed based on a mixture of Ayakulik, Karluk, and local salmon stocks. Both the Karluk and Ayakulik systems have very defined even-year-dominant pink salmon runs (Donnelly 1983; Eggers et al. 1991). Differences in system dynamics between even and odd years in July have resulted in different management practices depending on the relative pink salmon run strength within a year.

### **Inner and Outer Karluk Sections**

From June 1 through July 15, the Inner and Outer Karluk Sections are opened based on early-run sockeye salmon returning to Karluk Lake. However, the Inner Karluk Section cannot be opened during this timeframe unless ADF&G determines that the midpoint of the early-run Karluk sockeye salmon escapement goal will be achieved.

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In odd years, from July 16 through August 24, Inner and Outer Karluk Sections' commercial salmon fishing periods are based on late-run sockeye salmon. In even years, openings are based on both late-run sockeye salmon and pink salmon returns. Openings from August 25 through September 5 are based on late-run Karluk Lake sockeye salmon. After September 5, openings are based on both late-run sockeye and coho salmon returning to the Karluk system.

#### **Inner and Outer Ayakulik Sections**

From June 1 through July 15, commercial salmon fishing periods within the Inner and Outer Ayakulik Sections are based on early-run sockeye salmon returning to Red Lake (Ayakulik River). In odd years, from July 16 through August 24, fishing periods are based on late-run sockeye salmon run strength. In even years during this timeframe, Inner and Outer Ayakulik Sections fishing periods are based on late-run sockeye salmon and pink salmon run strengths. After approximately August 24, fishing periods are based on coho salmon returning to the Ayakulik system.

#### **Sturgeon and Halibut Bay Sections**

The Sturgeon and Halibut Bay Sections are closed from June 1 through June 22 because of mixed Karluk, Ayakulik, and Olga Bay sockeye salmon stocks present at this time. From June 23 to July 15, openings are based on early-run sockeye salmon returning to Ayakulik and Karluk Lakes. However, the Sturgeon River has one of the largest documented chum salmon runs in the Kodiak Management Area, and this early-run chum salmon system must also be taken into consideration when opening the Sturgeon Section during this time frame. From July 16 through August 24 in either even or odd years, fishing periods are determined based on Ayakulik or Karluk late-run sockeye salmon or pink salmon. After August 25, fishing periods are based on Karluk and Ayakulik late-run sockeye salmon run strength, as well as local coho salmon stocks.

#### **2020 Westside Kodiak Fisheries**

ADF&G's preseason salmon forecasts predicted a surplus (in excess of escapement needs) of early-run sockeye salmon returning to Karluk Lake (74,000 fish), Frazer Lake (270,000 fish), Ayakulik River (41,000 fish), and early-run Upper Station (15,000 fish; Brenner et al. 2020).

The Karluk early-run sockeye salmon biological escapement goal (BEG) is 150,000 to 250,000 fish. The 2020 targeted sockeye salmon escapement for Karluk Lake early-run was 200,000 fish. The Ayakulik early-run sockeye salmon sustainable escapement goal (SEG) is 140,000 to 280,000 fish. The 2020 targeted sockeye salmon escapement for the Ayakulik early run was 210,000 fish.

The Karluk late-run sockeye salmon BEG is 200,000 to 450,000 fish. The 2020 targeted sockeye salmon escapement of 325,000 fish for Karluk Lake late run was based on a maximum sustained yield calculation (McKinly et al. 2019). The Ayakulik late-run sockeye salmon SEG is 60,000 to 120,000 fish. The 2020 targeted sockeye salmon escapement of 90,000 fish for the Ayakulik late run was based on a maximum sustained yield calculation (McKinley et al. 2019).

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### **Karluk Early Run**

The Karluk River weir was fish tight on May 24 (Fuerst 2021). Due to weak early sockeye salmon escapement, the initial 57-hour commercial test fishing period in the Northwest Kodiak District was delayed until June 9. The resulting harvest indicated a below average amount of sockeye salmon traveling along the Westside fishery, and the fishery closed for several days. Through June 13, 79,139 sockeye salmon had passed the Karluk River weir, which was below average but within the escapement goal range (Fuerst 2021). The Central and North Cape Sections of the Northwest Kodiak District and the Southwest Afognak Section of the Afognak District opened on June 14 for the second commercial salmon test fishing period for 57 hours. The resulting harvest indicated a below average number of sockeye salmon present in the area and the fishery remained closed until the first general pink salmon opener on July 6.

The 2020 Karluk Lake early-run sockeye salmon escapement of 157,441 fish (Fuerst 2021) was within the escapement goal range of 150,000 to 250,000 fish (McKinley et al. 2019). From June 1 to July 15, approximately 73,914 sockeye salmon were harvested in the Westside fishery managed for Karluk early-run sockeye (Table 9). Of the early run harvests, approximately 22,200 fish were estimated to be of Karluk Lake origin.

### **Pink Salmon Run**

On July 6, the majority of the Kodiak Area opened to commercial salmon fishing for 81 hours based on the preseason wild stock pink salmon harvest estimate of 9.9 million fish. The Sturgeon Section of the Southwest Kodiak District remained closed due to weak early chum salmon escapement. Pink salmon harvests for the first pink salmon fishing period were average.

After a three-and-a-half-day closure, the majority of the Westside reopened for 81 hours on July 13. Pink salmon harvests for the second pink salmon fishing period were above average.

The majority of the Westside reopened for 81 hours on July 20. Pink salmon harvests for the third pink salmon fishing period were well above average.

In 2020, most of the pink salmon were harvested on the Westside fisheries (12,314,115), particularly the Southwest Kodiak District. The 3 major systems of Karluk, Sturgeon, and Ayakulik all had extremely large pink salmon runs and record or near-record pink salmon escapement. The 2020 season was the largest pink salmon harvest ever in the Southwest Kodiak District with 7,923,000 pink salmon harvested.

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### **Karluk Late Run**

From August 16 through August 24, the majority of the Westside is managed based on pink salmon returning to the Northwest Kodiak District and on late-run sockeye salmon returning to the Karluk system. Karluk late run sockeye salmon escapement was average allowing for extended fishing time throughout most of August on the Westside including the Outer Karluk Section of the Southwest Kodiak District.

From August 25 through September 5, the majority of the Northwest Kodiak District is managed based on late-run sockeye salmon returning to the Karluk system. By late August, Karluk late-run sockeye salmon escapement was well below average, but an aerial survey on August 24 indicated a very large buildup of salmon in Karluk lagoon with an estimated 1,000,000 pink salmon and over 100,000 sockeye salmon.

The Westside sockeye salmon harvest continued to be average and with sufficient sockeye salmon escapement, the majority of the Westside was extended through the end of the salmon season. The Karluk late-run sockeye salmon escapement of 294,552 fish was within the desired escapement goal range of 200,000 to 450,000 fish (McKinley et al. 2019), and the Westside post-July 15 sockeye salmon harvest was approximately 556,454 sockeye salmon, which included an estimated 422,424 Karluk late-run sockeye salmon.

### **Ayakulik**

The Ayakulik River weir was fish tight on May 29 (Fuerst 2021). The 2020 Ayakulik early-run sockeye salmon run began the season weak but increased as the season progressed allowing for several fishing periods prior to July 15 in the Outer Ayakulik Section of the Southwest Kodiak District. Through July 15, the cumulative Ayakulik early-run sockeye salmon escapement of 220,935 fish (Fuerst 2021) was within the escapement goal range of 140,000 to 280,000 fish (McKinley et al. 2019).

The 2020 Ayakulik late-run sockeye salmon run was strong, and the Outer Ayakulik Section opened along with the general pink salmon fishing periods during July and was open continuously for the majority of August. Additionally, the Halibut Bay Section of the Southwest Kodiak district opened several times during the sockeye salmon late run. The Ayakulik River weir was removed on August 20, and the cumulative late-run Ayakulik sockeye salmon escapement of 81,660 fish was within the escapement goal range of 60,000 to 120,000 fish (McKinley et al. 2019).

The total sockeye salmon escapement through the Ayakulik weir was 302,595 fish (Fuerst 2021) and was within the combined early- and late-run escapement goals (200,000 to 400,000 fish; McKinley et al. 2019). For the season, 247,229 sockeye salmon were harvested in areas managed based on Ayakulik sockeye salmon (Table 9).

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In 2020, there were a total of 4,326 landings made in Westside Kodiak management units (Southwest Afognak to Ayakulik<sup>1</sup>) consisting of a total commercial harvest of 14,475,117 salmon, including 4,326 Chinook, 972,323 sockeye, 177,465 coho, 13,190,471 pink, and 130,418 chum salmon (Appendix E3). There were 133 seine permit holders that made 2,015 landings with a harvest of 3,964 Chinook, 794,707 sockeye, 130,133 coho, 11,924,012 pink, and 80,594 chum salmon (Appendix E4). There were 85 set gillnet permit holders that made 2,311 landings for 476 Chinook, 177,616 sockeye, 47,332 coho, 1,266,459 pink, and 49,824 chum salmon. Commercial salmon harvests, by gear type, for individual Westside Kodiak management units can be found in Appendices E5 and E6.

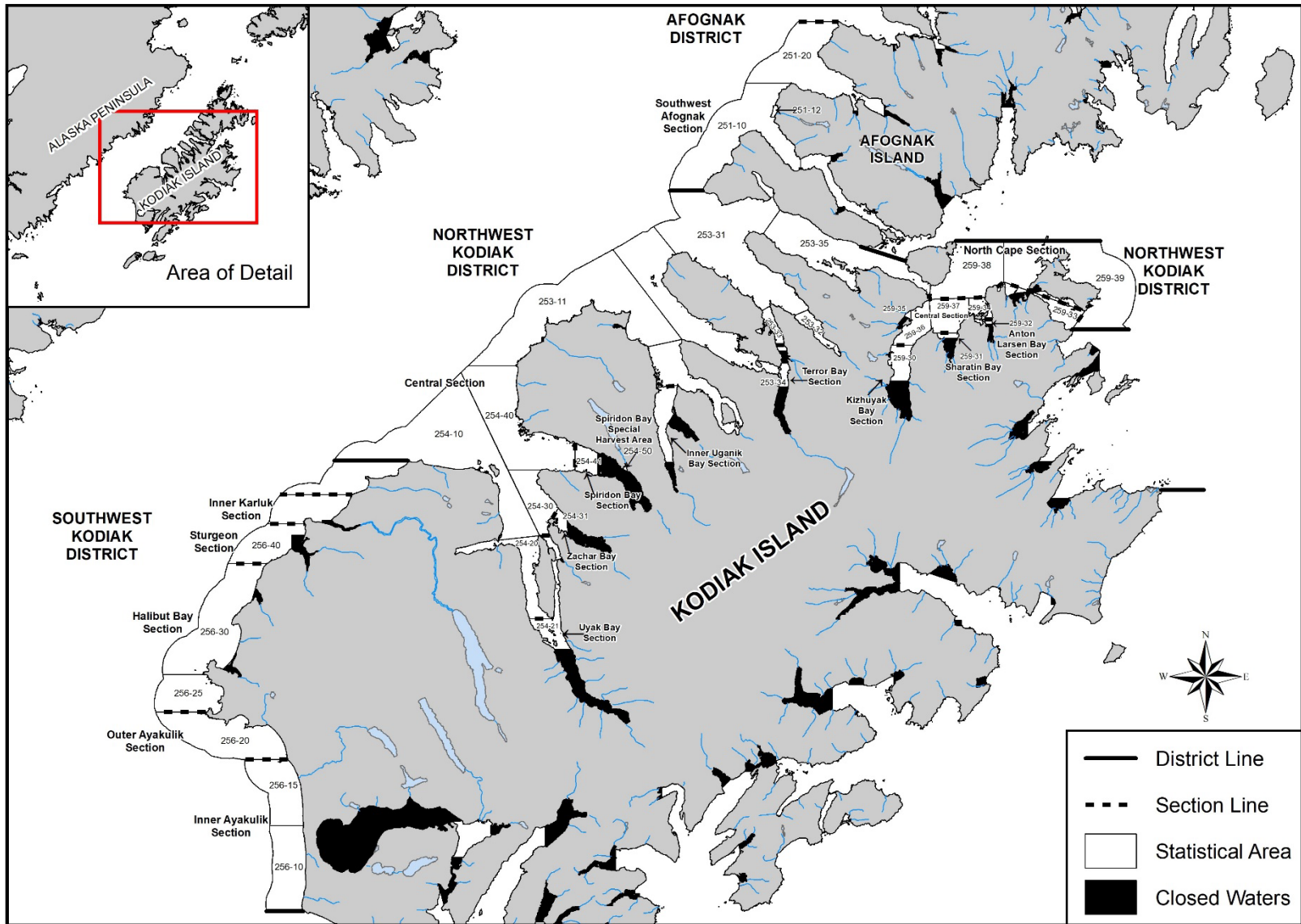
## REFERENCES CITED

- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage.
- Donnelly, R. F. 1983. Factors affecting the abundance of Kodiak Archipelago pink salmon (*Oncorhynchus gorbuscha*, Walbaum). Ph.D. Thesis. School of Fisheries. Seattle, University of Washington.
- Eggers, D. M., L. R. Peltz, B. G. Bue, and T. M. Willette. 1991. Trends in abundance of hatchery and wild stocks of pink salmon in Kodiak Island, Cook Inlet, and Prince William Sound, Alaska. Professional Paper 35. Alaska Department of Fish and Game, Division of Commercial Fisheries, Juneau.
- Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21-04, Kodiak.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.
- Prokopowich, D., K. Brennan, and D. Gretsch. 1991. 1991 Harvest strategy, Kodiak area commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K91-15, Kodiak.

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<sup>1</sup> Westside Kodiak salmon harvest totals in Appendix E do not include salmon taken in the Spiridon Bay Special Harvest Area (SBSHA). Sockeye salmon from an enhancement project return to this area. SBSHA is managed under a separate plan; see Appendix H for a description of the SBSHA fishery. These tables do include sockeye salmon destined for Spiridon Bay that were caught outside the SBSHA in the Westside fishery. These totals also do not include salmon taken in Settler Cove (259-35). Commercial fisheries in Settler Cove are managed under a separate plan.

Appendix E2.—Map of the west side of Kodiak Island, including Southwest Kodiak and Northwest Kodiak districts and the Southwest Afognak Section of the Afognak District.



Appendix E3.—Commercial salmon harvest, by species, for Westside management units in the Kodiak Management Area, 1990–2020.

Year	Permits	Landings	Number of salmon					Total
			Chinook	Sockeye	Coho	Pink	Chum	
1990	455	12,604	12,090	3,383,351	176,475	3,674,278	218,883	7,465,077
1991	434	11,957	11,780	2,842,802	179,852	5,588,982	346,193	8,969,609
1992	429	11,121	17,238	2,306,791	128,737	1,538,305	302,779	4,293,850
1993	406	12,106	21,019	2,426,540	124,497	10,344,080	300,571	13,216,707
1994	350	8,024	16,930	1,236,314	135,365	3,873,574	329,281	5,591,464
1995	369	13,104	13,819	2,071,281	147,204	21,025,711	722,649	23,980,664
1996	328	7,808	10,437	2,536,733	71,984	1,780,755	365,034	4,764,943
1997	334	7,752	11,152	1,412,061	108,459	6,520,085	214,730	8,266,487
1998	290	9,623	13,886	2,220,631	163,102	12,335,360	176,636	14,909,615
1999	317	8,494	12,794	2,733,598	104,806	4,114,397	267,329	7,232,924
2000	306	7,554	9,382	1,600,248	111,908	5,343,028	379,439	7,444,005
2001	265	6,799	18,301	1,613,978	143,681	3,687,193	381,083	5,844,236
2002	228	5,365	14,911	1,178,677	166,321	9,442,576	250,137	11,052,622
2003	227	7,508	13,765	2,973,555	156,308	5,406,272	329,512	8,879,412
2004	225	8,919	23,744	2,413,242	259,500	14,756,880	604,428	18,057,794
2005	204	6,671	11,034	1,457,611	183,158	6,178,927	243,153	8,073,883
2006	211	8,252	16,139	1,200,137	249,668	20,198,535	402,146	22,066,625
2007	219	6,865	13,373	1,511,395	167,153	8,718,322	219,554	10,629,797
2008	199	3,387	13,124	634,056	92,170	3,732,346	223,658	4,695,354
2009	197	3,505	1,621	577,893	57,363	4,936,956	353,915	5,927,748
2010	235	2,982	6,061	640,336	75,327	3,837,741	227,171	4,786,636
2011	222	2,438	4,676	507,603	58,970	955,492	134,701	1,661,442
2012	250	5,780	5,858	1,021,551	127,529	9,555,127	334,333	11,044,398
2013	241	5,080	12,702	1,483,699	106,994	5,103,909	241,555	6,948,859
2014	271	5,701	4,940	2,348,820	182,890	2,603,984	160,406	5,301,040
2015	257	6,953	4,534	2,094,753	247,564	12,488,343	484,559	15,319,753
2016	237	4,326	3,253	1,109,165	133,375	1,421,142	204,317	2,871,252
2017	244	7,910	4,612	1,760,513	232,102	16,482,110	519,676	18,999,013
2018	235	4,056	1,911	1,398,751	191,060	1,868,851	182,950	3,643,523
2019	265	6,703	4,662	1,485,738	196,875	17,494,381	300,808	19,482,464
2020	218	4,326	4,440	972,323	177,465	13,190,471	130,418	14,475,117
Average								
2010–2019	246	5,193	5,321	1,385,093	155,269	7,181,108	279,048	9,005,838
1990–2019	282	7,312	10,992	1,739,394	149,347	7,500,255	314,053	9,714,040

*Note:* Westside Kodiak Management Plan units include the Southwest Afognak Section, the Northwest Kodiak District (except the Spiridon Bay Special Harvest Area and Settler Cove), and the Southwest Kodiak District. Harvest numbers do not include test fish harvests or commercial harvest retained for personal use.

Appendix E4.—Commercial salmon harvest, by gear type and species, for Westside management units, 2020.

Gear	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		Total	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Seine	133	2,015	3,964	25,853	794,707	3,616,646	130,133	924,217	11,924,012	40,433,548	80,594	574,325	12,933,410	45,574,588
Average weight (lb)				6.52		4.55		7.10		3.39		7.13		
Set gillnet	85	2,311	476	3,930	177,616	883,158	47,332	333,332	1,266,459	4,429,672	49,824	356,554	1,541,707	6,006,646
Average weight (lb)				8.26		4.97		7.04		3.50		7.16		
Grand total	218	4,326	4,440	29,783	972,323	4,499,804	177,465	1,257,549	13,190,471	44,863,220	130,418	930,879	14,475,117	51,581,234
Average weight (lb)				6.71		4.63		7.09		3.40		7.14		

*Note:* Westside Kodiak Management Plan units include the Southwest Afognak Section, the Northwest Kodiak District (except for the Spiridon Bay Special Harvest Area and Settler Cove Special Harvest Area), and the Southwest Kodiak District. Harvest numbers do not include test fish harvests or commercial harvest retained for personal use.



Appendix E5.–Seine daily salmon harvest, by species, for the Westside Management Plan units, 2020.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Southwest	6-Jul	3	3	2	6	715	3,146	29	173	709	2,370	567	4,200
Afognak	7-Jul <sup>a</sup>												
Section	8-Jul	3	4	18	203	590	3,032	59	502	2,602	7,418	575	5,666
	13-Jul	5	5	27	165	801	4,233	268	2,080	5,466	21,140	1,341	9,385
	14-Jul	5	5	0	0	1,098	6,597	170	1,331	9,523	35,745	842	5,692
	15-Jul	7	8	174	602	4,494	18,632	1,785	13,258	30,363	102,635	1,576	10,400
	16-Jul <sup>a</sup>												
	20-Jul	6	6	72	699	1,353	7,958	758	5,946	14,062	54,051	802	5,681
	21-Jul <sup>a</sup>												
	22-Jul	9	10	43	179	1,793	8,759	806	5,720	19,507	70,690	780	4,764
	27-Jul	7	7	37	178	1,166	5,410	419	3,144	25,625	97,486	395	2,725
	28-Jul	3	3	16	81	521	2,301	237	2,048	9,942	42,097	362	3,351
	29-Jul	8	8	41	163	3,798	13,981	1,014	6,120	68,478	230,824	960	6,768
	30-Jul <sup>a</sup>												
	31-Jul	3	3	7	30	2,260	8,241	373	2,547	29,337	88,011	252	1,983
	3-Aug	3	3	49	296	534	2,315	247	1,770	12,255	47,474	159	1,126
	4-Aug <sup>a</sup>												
	5-Aug <sup>a</sup>												
	6-Aug	3	3	0	0	518	2,949	289	2,122	15,227	58,441	103	762
	7-Aug <sup>a</sup>												
	8-Aug	3	3	0	0	556	3,330	336	2,685	19,653	58,955	49	345
	9-Aug	3	3	5	53	482	2,163	611	5,264	12,315	40,439	80	529
	10-Aug <sup>a</sup>												
	11-Aug	3	3	66	408	892	3,813	600	5,012	26,710	95,460	83	603
	12-Aug	3	3	30	220	245	1,024	415	2,853	13,055	44,384	45	339
	13-Aug	3	3	41	204	394	1,559	332	2,328	26,964	97,069	94	707
	14-Aug	3	3	42	418	225	1,011	749	6,012	13,522	52,913	48	331
	15-Aug <sup>a</sup>												
	16-Aug	5	5	22	104	239	1,086	407	3,173	15,855	51,401	89	624
	17-Aug	3	3	11	54	102	448	188	1,336	8,020	27,630	48	338
	18-Aug <sup>a</sup>												

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Southwest	19-Aug <sup>a</sup>												
Afognak	20-Aug <sup>a</sup>												
Section	21-Aug <sup>a</sup>												
(continued)	23-Aug <sup>a</sup>												
	28-Aug <sup>a</sup>												
	2-Sep <sup>a</sup>												
	4-Sep <sup>a</sup>												
Total		36	123	1,160	6,417	27,082	121,456	13,410	99,526	482,770	1,697,349	10,251	73,275
Average weight (lb)					5.53		4.48		7.42		3.52		7.15
Northwest	9-Jun	15	15	33	114	10,591	41,871	0	0	74	217	892	5,857
Kodiak	10-Jun <sup>a</sup>												
District <sup>b</sup>	11-Jun	11	11	1	3	1,796	6,544	0	0	27	74	134	961
	14-Jun	18	18	6	23	5,210	18,474	0	0	58	175	709	4,449
	15-Jun <sup>a</sup>												
	6-Jul	21	21	111	693	7,474	33,648	79	475	9,331	24,428	2,258	17,464
	7-Jul	8	8	47	252	1,378	6,250	2	13	1,973	5,976	1,025	9,319
	8-Jul	8	9	71	375	2,262	8,366	36	252	4,127	11,529	548	4,337
	9-Jul	4	4	0	0	563	2,595	115	587	1,162	3,688	226	1,437
	10-Jul <sup>a</sup>												
	13-Jul	25	26	126	1,093	7,345	33,344	947	6,637	60,501	164,096	2,483	19,655
	14-Jul	10	11	59	504	3,225	14,339	866	4,959	31,332	96,421	1,834	13,751
	15-Jul	27	27	191	1,258	9,152	38,201	1,937	11,624	86,121	258,849	5,881	38,333
	16-Jul	10	10	4	32	6,310	29,373	246	1,283	33,871	103,031	1,209	8,300
	20-Jul	33	35	102	829	9,682	39,719	2,267	15,397	143,225	498,404	6,557	47,615
	21-Jul	15	15	26	164	1,804	9,057	494	3,090	33,036	116,528	1,191	8,807
	22-Jul	31	32	87	530	6,090	30,642	1,490	10,149	123,220	414,468	3,517	24,444
	23-Jul	16	16	57	373	1,465	6,904	352	2,164	25,027	88,738	801	4,987
	27-Jul	27	28	66	757	7,363	35,752	1,869	13,415	156,938	554,387	3,184	22,988
	28-Jul	16	18	7	48	3,386	16,792	786	5,433	82,872	282,649	1,113	8,551
	29-Jul	30	32	50	411	5,555	25,571	1,374	9,549	161,264	530,424	2,080	15,506
	30-Jul	14	15	18	323	3,387	15,555	843	5,170	75,817	244,869	930	6,777

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Management				Chinook		Sockeye		Coho		Pink		Chum	
unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest	31-Jul	15	15	11	128	3,092	14,124	746	5565	71,185	276,503	682	5,053
Kodiak	3-Aug	33	33	50	555	5,892	25,914	2096	14310.9	189,360	603,966	1,617	12,204
District <sup>b</sup>	4-Aug	23	23	69	413	3,445	15,617	1,439	8,468	125,103	418,626	978	7,301
	5-Aug	29	31	98	770	6,524	30,032	2,002	13,031	234,373	821,415	2,060	14,620
	6-Aug	23	26	63	462	7,429	32,084	1,158	6,740	185,820	609,934	747	5,458
	7-Aug	33	37	9	110	8,791	42,143	1,995	13,329	247,470	860,463	1,068	7,928
	8-Aug	31	32	57	423	6,034	27,929	1,468	8,467	176,175	640,299	854	5,803
	9-Aug	22	22	6	74	4,551	20,671	853	4,606	94,206	339,666	1,125	8,544
	10-Aug	15	18	69	478	4,035	19,210	886	5,236	124,804	401,049	519	3,354
	11-Aug	29	29	111	756	4,231	21,203	1,634	11,203	161,264	589,762	618	4,289
	12-Aug	15	17	56	346	2,283	10,726	1,092	8,003	81,123	296,433	247	1,492
	13-Aug	5	5	0	0	290	1,603	255	1,781	15,914	61,480	36	277
	14-Aug	5	7	0	0	1,178	6,055	169	993	35,389	122,686	14	92
	15-Aug	15	15	176	906	3,035	14,658	994	7,058	69,257	226,520	225	1,470
	16-Aug	15	16	19	124	2,443	12,067	1,090	7,359	70,921	245,237	484	2,998
	17-Aug	15	16	155	683	3,531	15,923	2,961	20,920	88,938	292,595	308	2,137
	18-Aug	12	14	5	93	3,563	16,531	1,277	8,213	82,601	276,476	171	1,168
	19-Aug	16	16	5	28	3,187	15,257	1,273	10,025	65,819	229,011	94	728
	20-Aug	15	15	158	900	2,640	10,972	1,140	7,937	49,269	167,035	257	1,667
	21-Aug	7	7	0	0	2,250	9,628	593	3,859	42,231	141,028	32	204
	22-Aug	10	10	1	18	1,060	4,927	703	4,964	23,476	77,584	65	481
	23-Aug	10	10	0	0	2,043	8,022	1,479	10,015	62,066	164,062	54	380
	24-Aug	10	10	0	0	1,346	6,331	675	4,381	38,307	106,698	56	410
	25-Aug	12	12	0	0	4,424	18,821	1,484	10,545	47,116	144,058	163	1,022
	26-Aug	11	11	1	7	4,084	20,477	1,390	11,261	29,869	99,974	132	909
	27-Aug	8	8	0	0	2,210	9,943	630	4,082	10,436	33,679	11	72
	28-Aug	8	8	9	57	2,235	10,109	1,248	8,105	28,133	98,194	130	922
	29-Aug	3	3	0	0	292	993	141	1,212	4,422	14,805	40	262
	1-Sep	18	18	0	0	13,456	58,077	5,737	46,649	20,716	68,202	93	605
	2-Sep	6	6	1	12	4,673	21,844	1,666	14,493	2,446	8,914	85	685
	3-Sep	6	6	0	0	3,388	15,549	1,144	10,179	4,334	14,532	28	175

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Management				Chinook		Sockeye		Coho		Pink		Chum	
unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest	4-Sep	8	8	0	0	2,943	13,108	775	6,879	1,570	5,162	19	158
Kodiak	5-Sep	5	5	0	0	1,124	5,313	1,001	6,620	599	1,934	6	36
District <sup>b</sup>	7-Sep <sup>a</sup>												
(continued)	8-Sep	8	8	0	0	9,407	41,944	2,100	17,153	1,121	3,858	21	126
	9-Sep	4	4	0	0	1,160	5,111	775	5,973	271	908	59	359
	10-Sep	11	11	2	25	5,005	24,273	1,197	8,886	681	2,149	35	201
	11-Sep <sup>a</sup>												
	12-Sep	5	5	6	70	2,883	13,656	749	6,033	292	894	9	65
	13-Sep <sup>a</sup>												
	14-Sep	5	5	22	173	6,770	30,522	1,263	9,907	195	580	9	51
	16-Sep <sup>a</sup>												
Total		118	902	2,222	15,394	245,856	1,106,412	64,487	456,472	3,517,871	11,867,179	49,992	359,127
Average weight (lb)					6.93		4.50		7.08		3.37		7.18
Inner and	6-Jul <sup>a</sup>												
Outer	8-Jul	3	3	0	0	963	5,395	24	165	3,607	11,124	470	4,045
Karluk Section	13-Jul	4	4	34	187	2,003	9,539	73	523	17,333	52,519	976	8,894
	14-Jul	3	3	7	49	2,547	10,779	45	315	9,481	45,009	552	4,654
	15-Jul	7	7	23	136	3,922	19,197	164	957	30,491	111,580	854	6,405
	16-Jul <sup>a</sup>												
	20-Jul	3	3	4	47	1,503	6,029	97	647	20,913	58,801	328	2,748
	21-Jul <sup>a</sup>												
	22-Jul	3	3	47	364	3,757	15,765	326	1,997	35,460	98,470	536	3,953
	27-Jul	25	30	6	60	7,941	35,759	528	3,282	221,417	780,560	813	4,970
	28-Jul	9	9	49	272	2,400	12,346	378	2,233	60,806	218,996	383	2,747
	29-Jul	18	21	45	217	5,542	25,828	499	3,010	203,481	695,706	449	3,198
	30-Jul	6	6	1	3	2,018	9,602	129	816	41,477	145,691	185	1,298
	31-Jul	11	14	11	141	4,392	20,278	485	3,028	90,609	352,818	371	2,825
	3-Aug	6	7	2	16	4,175	16,452	335	2,137	48,799	198,127	102	878
	4-Aug	11	12	10	81	3,329	16,503	660	4,757	118,681	398,317	457	3,562
	5-Aug	13	15	10	65	6,174	25,437	438	2,883	155,143	514,346	547	3,242
	6-Aug	17	19	6	62	8,484	35,105	433	2,980	162,004	502,705	240	1,459

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner and	6-Jul <sup>a</sup>												
Outer	8-Jul	3	3	0	0	963	5,395	24	165	3,607	11,124	470	4,045
Karluk	13-Jul	4	4	34	187	2,003	9,539	73	523	17,333	52,519	976	8,894
Section	14-Jul	3	3	7	49	2,547	10,779	45	315	9,481	45,009	552	4,654
	15-Jul	7	7	23	136	3,922	19,197	164	957	30,491	111,580	854	6,405
	16-Jul <sup>a</sup>												
	20-Jul	3	3	4	47	1,503	6,029	97	647	20,913	58,801	328	2,748
	21-Jul <sup>a</sup>												
	22-Jul	3	3	47	364	3,757	15,765	326	1,997	35,460	98,470	536	3,953
	27-Jul	25	30	6	60	7,941	35,759	528	3,282	221,417	780,560	813	4,970
	28-Jul	9	9	49	272	2,400	12,346	378	2,233	60,806	218,996	383	2,747
	29-Jul	18	21	45	217	5,542	25,828	499	3,010	203,481	695,706	449	3,198
	30-Jul	6	6	1	3	2,018	9,602	129	816	41,477	145,691	185	1,298
	31-Jul	11	14	11	141	4,392	20,278	485	3,028	90,609	352,818	371	2,825
	3-Aug	6	7	2	16	4,175	16,452	335	2,137	48,799	198,127	102	878
	4-Aug	11	12	10	81	3,329	16,503	660	4,757	118,681	398,317	457	3,562
	5-Aug	13	15	10	65	6,174	25,437	438	2,883	155,143	514,346	547	3,242
	6-Aug	17	19	6	62	8,484	35,105	433	2,980	162,004	502,705	240	1,459
	7-Aug	13	14	2	34	4,657	22,325	327	2,178	99,022	363,833	140	1,076
	8-Aug	7	7	3	26	2,509	11,522	254	1,669	60,553	232,627	193	1,440
	10-Aug	4	4	1	9	1,943	10,430	71	435	36,311	129,150	57	419
	11-Aug	8	9	0	0	5,068	23,126	513	3,671	88,083	321,668	67	510
	12-Aug	17	17	4	31	6,470	31,617	960	6,285	120,892	436,389	183	1,281
	13-Aug	32	38	0	0	18,358	81,606	1,411	9,777	523,515	1,670,357	310	2,233
	14-Aug	26	36	0	0	12,321	55,256	657	4,444	336,843	1,189,304	136	977
	15-Aug	20	21	29	122	8,594	40,493	765	4,864	189,867	707,724	668	3,970
	16-Aug	13	13	0	0	3,531	18,628	738	4,437	52,807	186,230	44	295
	17-Aug	8	8	0	0	3,181	15,442	890	6,026	38,889	143,531	44	317
	18-Aug	10	10	0	0	5,447	25,359	981	6,600	56,486	191,069	59	358
	19-Aug <sup>a</sup>												
	20-Aug	8	8	0	0	3,005	15,032	693	6,833	59,477	193,261	24	166

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner and	6-Jul <sup>a</sup>												
Outer	8-Jul	3	3	0	0	963	5,395	24	165	3,607	11,124	470	4,045
Karluk	13-Jul	4	4	34	187	2,003	9,539	73	523	17,333	52,519	976	8,894
Section	14-Jul	3	3	7	49	2,547	10,779	45	315	9,481	45,009	552	4,654
	15-Jul	7	7	23	136	3,922	19,197	164	957	30,491	111,580	854	6,405
	16-Jul <sup>a</sup>												
	20-Jul	3	3	4	47	1,503	6,029	97	647	20,913	58,801	328	2,748
	21-Jul <sup>a</sup>												
	22-Jul	3	3	47	364	3,757	15,765	326	1,997	35,460	98,470	536	3,953
	27-Jul	25	30	6	60	7,941	35,759	528	3,282	221,417	780,560	813	4,970
	28-Jul	9	9	49	272	2,400	12,346	378	2,233	60,806	218,996	383	2,747
	29-Jul	18	21	45	217	5,542	25,828	499	3,010	203,481	695,706	449	3,198
	30-Jul	6	6	1	3	2,018	9,602	129	816	41,477	145,691	185	1,298
	31-Jul	11	14	11	141	4,392	20,278	485	3,028	90,609	352,818	371	2,825
	3-Aug	6	7	2	16	4,175	16,452	335	2,137	48,799	198,127	102	878
	4-Aug	11	12	10	81	3,329	16,503	660	4,757	118,681	398,317	457	3,562
	5-Aug	13	15	10	65	6,174	25,437	438	2,883	155,143	514,346	547	3,242
	6-Aug	17	19	6	62	8,484	35,105	433	2,980	162,004	502,705	240	1,459
	7-Aug	13	14	2	34	4,657	22,325	327	2,178	99,022	363,833	140	1,076
	8-Aug	7	7	3	26	2,509	11,522	254	1,669	60,553	232,627	193	1,440
	10-Aug	4	4	1	9	1,943	10,430	71	435	36,311	129,150	57	419
	11-Aug	8	9	0	0	5,068	23,126	513	3,671	88,083	321,668	67	510
	12-Aug	17	17	4	31	6,470	31,617	960	6,285	120,892	436,389	183	1,281
	13-Aug	32	38	0	0	18,358	81,606	1,411	9,777	523,515	1,670,357	310	2,233
	14-Aug	26	36	0	0	12,321	55,256	657	4,444	336,843	1,189,304	136	977
	15-Aug	20	21	29	122	8,594	40,493	765	4,864	189,867	707,724	668	3,970
	16-Aug	13	13	0	0	3,531	18,628	738	4,437	52,807	186,230	44	295
	17-Aug	8	8	0	0	3,181	15,442	890	6,026	38,889	143,531	44	317
	18-Aug	10	10	0	0	5,447	25,359	981	6,600	56,486	191,069	59	358
	19-Aug <sup>a</sup>												
	20-Aug	8	8	0	0	3,005	15,032	693	6,833	59,477	193,261	24	166

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner and Outer Karluk Section	21-Aug	6	6	0	0	2,090	9,895	524	3,160	39,473	139,915	11	80
	22-Aug	3	3	0	0	657	2,779	139	965	17,846	58,187	13	78
	23-Aug	7	7	0	0	1,805	8,779	504	3,573	15,251	51,847	11	50
	24-Aug	5	5	0	0	2,910	11,168	881	5,821	42,912	107,288	52	338
	25-Aug	3	3	0	0	1,635	7,596	262	1,788	13,645	45,825	7	51
	26-Aug	9	9	1	6	5,465	23,930	824	6,501	25,264	89,294	26	168
	27-Aug	8	8	0	0	4,452	21,693	1,540	11,889	30,851	102,349	60	406
	28-Aug	9	9	1	7	5,001	23,600	1,452	9,563	24,104	79,874	25	198
	29-Aug	3	3	0	0	3,527	16,695	871	7,088	8,741	28,370	28	168
	4-Sep	12	12	0	0	4,372	19,847	1,274	10,697	2,273	7,369	22	147
	5-Sep <sup>a</sup>												
	6-Sep	3	3	0	0	2,304	11,130	342	3,008	415	1,276	14	91
	7-Sep <sup>a</sup>												
	8-Sep	7	7	0	0	15,339	67,316	1,984	15,567	882	2,908	7	39
	9-Sep	3	3	0	0	4,725	22,146	268	2,770	253	811	2	14
	10-Sep	14	14	0	0	7,721	35,478	938	7,958	510	1,635	18	112
	11-Sep	3	3	0	0	1,053	4,694	98	919	21	78	0	0
	12-Sep	12	12	8	65	7,763	34,301	1,011	7,782	324	965	7	39
	13-Sep	4	4	0	0	3,214	14,534	580	4,043	82	274	14	73
	14-Sep	4	4	0	0	7,888	33,883	445	3,771	110	365	3	23
	15-Sep <sup>a</sup>												
	16-Sep	3	3	2	16	2,748	14,486	313	2,841	59	171	9	49
	18-Sep <sup>a</sup>												
	19-Sep <sup>a</sup>												
	24-Sep <sup>a</sup>												
	25-Sep	3	3	0	0	1,469	6,184	102	618	0	0	0	0
	26-Sep <sup>a</sup>												
	27-Sep <sup>a</sup>												
	7-Oct <sup>a</sup>												
Total		80	479	322	2,092	234,378	1,065,231	29,227	211,727	3,118,030	10,713,215	9,800	72,250
Average weight (lb)					6.50		4.54		7.24		3.44		7.37

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Remainder of Southwest Kodiak District (256-10-40)	27-Jun	15	15	11	60	10,360	53,331	6	26	806	2,218	475	3,339
	28-Jun	3	3	0	0	407	2,781	0	0	54	189	63	465
	29-Jun	12	12	7	33	7,976	32,284	1	7	380	1,288	343	2,619
	4-Jul	23	23	112	654	22,435	99,478	54	331	5,200	15,273	525	3,613
	5-Jul	3	3	6	39	1,530	6,954	11	51	1,332	4,680	57	406
	6-Jul	5	5	0	0	2,363	9,301	0	0	167	689	39	270
	9-Jul <sup>a</sup>												
	13-Jul	12	14	16	136	12,946	57,261	150	857	27,586	75,226	1,411	8,957
	15-Jul	9	9	3	18	13,923	57,853	344	2,248	45,707	146,725	1,065	7,452
	20-Jul	8	8	21	137	5,226	24,049	227	1,265	31,073	97,293	274	1,977
	21-Jul	2	2	0	0	3,462	11,078	12	65	12,235	42,820	38	286
	22-Jul	6	6	10	101	6,615	26,707	217	1,368	77,878	256,525	502	3,359
	23-Jul	3	3	0	0	2,720	10,111	42	279	32,707	107,166	92	687
	27-Jul	24	34	25	254	14,868	67,560	685	4,489	435,675	1,452,205	792	5,204
	28-Jul	19	22	23	172	14,143	59,781	692	4,058	325,427	1,073,322	625	4,412
	29-Jul	27	32	2	29	14,540	67,699	1,075	6,446	412,004	1,453,905	1,256	7,805
	30-Jul	29	31	5	61	9,697	47,460	445	2,880	338,565	1,163,720	486	2,991
	31-Jul	35	41	4	68	13,041	61,028	487	3,166	352,410	1,208,298	472	3,115
	3-Aug	19	20	0	0	4,348	19,286	240	1,262	179,972	551,814	55	335
	4-Aug	16	17	1	8	3,404	16,210	98	647	131,353	466,884	21	153
	5-Aug	6	6	0	0	2,365	12,361	37	250	90,899	350,582	20	152
	6-Aug	5	7	0	0	2,187	11,584	45	299	87,377	320,619	25	170
	7-Aug	7	8	0	0	1,886	8,573	58	390	106,291	349,067	15	99
	8-Aug	9	10	0	0	3,738	17,960	103	692	105,648	380,813	40	257
	9-Aug	6	7	0	0	4,938	21,675	155	1,091	110,767	323,793	79	539
	10-Aug	6	9	0	0	4,362	18,797	152	1,008	136,091	384,577	77	495
	11-Aug	11	15	0	0	5,514	27,563	266	1,771	235,452	754,077	129	773
	12-Aug	16	17	0	0	8,728	36,948	209	1,144	177,979	624,254	79	461
	13-Aug	29	35	6	87	14,672	70,650	1,542	9,231	258,264	896,481	323	2,181
	14-Aug	28	32	2	34	14,084	67,915	1,393	9,574	360,155	1,201,239	463	2,337
	15-Aug	8	9	6	59	5,612	26,877	795	5,367	88,461	309,393	103	676

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Remainder of Southwest Kodiak District (256-10-40) (continued)	16-Aug	8	9	0	0	4,378	21,642	561	3,718	70,178	241,592	58	423
	17-Aug	10	10	0	0	5,355	27,443	462	2,368	90,070	298,197	48	334
	18-Aug	7	7	0	0	5,991	28,049	916	6,399	55,656	197,344	18	125
	19-Aug	5	5	0	0	5,310	24,917	566	3,994	56,910	200,066	9	69
	20-Aug	7	7	0	0	2,985	13,791	506	3,956	85,112	263,155	13	93
	21-Aug	7	7	0	0	1,512	7,190	467	3,491	43,505	130,896	32	211
	22-Aug	5	5	0	0	2,044	10,304	575	4,565	49,610	168,221	39	225
	23-Aug	8	11	0	0	7,843	42,843	2,407	12,255	65,184	236,431	119	737
	24-Aug <sup>a</sup>												
	27-Aug	8	9	0	0	4,188	22,542	3,215	25,266	56,762	195,439	44	317
	28-Aug	4	4	0	0	4,135	17,787	851	6,738	15,687	52,279	30	217
	29-Aug <sup>a</sup>												
	1-Sep	3	3	0	0	2,502	13,220	1,459	11,647	15,197	48,621	5	34
	3-Sep <sup>a</sup>												
	4-Sep <sup>a</sup>												
	8-Sep <sup>a</sup>												
	10-Sep <sup>a</sup>												
Total		81	544	260	1,949	287,391	1,323,547	23,009	156,493	4,805,341	16,155,805	10,551	69,672
Average weight (lb)					7.50		4.61		6.80		3.36		6.60
Grand total		133	2,048	3,964	25,853	794,707	3,616,646	130,133	924,217	11,924,012	40,433,548	80,594	574,325

Note: Harvest numbers do not include test fish harvests or commercial harvest retained for personal use.

<sup>a</sup> Confidential.

<sup>b</sup> Does not include Spiridon Special Harvest Area (254-50) or Settler Cove Special Harvest Area (259-35).

Appendix E6.–Set gillnet salmon harvest, by species, for Westside Management Plan units, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest	9-Jun	27	32	3	28	1,067	4,964	0	0	3	12	52	387
Kodiak District <sup>a</sup>	10-Jun	31	32	3	21	2,025	9,383	1	5	2	7	108	774
	11-Jun	22	22	1	6	1,839	8,514	0	0	2	7	102	749
	14-Jun	26	28	6	81	1,601	7,808	0	0	12	41	143	1,059
	15-Jun	29	31	0	0	1,829	8,250	0	0	12	40	94	664
	6-Jul	31	43	2	53	7,118	35,692	40	238	2,563	8,961	1,385	11,063
	7-Jul	32	32	7	65	6,757	34,000	125	711	3,546	13,009	1,997	14,562
	8-Jul	33	34	4	38	4,750	23,985	707	3,756	5,680	20,267	3,209	22,292
	9-Jul	40	41	3	43	3,798	17,642	745	4,133	4,358	14,326	1,860	13,346
	13-Jul	30	43	7	80	4,329	21,901	321	1,911	12,445	46,008	2,138	15,440
	14-Jul	34	38	7	54	4,164	20,712	631	3,904	15,228	54,528	2,149	15,082
	15-Jul	39	48	11	74	4,792	23,488	923	5,677	17,171	59,921	2,034	14,801
	16-Jul	31	35	12	61	2,863	14,228	721	4,411	13,437	45,190	1,997	13,947
	20-Jul	34	44	1	9	4,226	21,424	734	4,398	28,755	100,053	1,948	13,583
	21-Jul	41	53	1	4	4,306	21,946	1,203	7,992	43,607	152,759	2,988	21,988
	22-Jul	37	45	6	77	3,148	15,429	981	6,230	35,563	126,298	3,109	22,419
	23-Jul	45	61	7	86	3,452	17,033	853	5,737	41,161	136,009	2,890	21,499
	27-Jul	40	56	1	10	4,129	20,724	931	6,122	49,151	164,707	1,693	11,519
	28-Jul	44	52	6	80	3,606	18,010	1,060	7,264	48,812	176,227	2,004	13,907
	29-Jul	43	48	1	15	2,965	14,731	862	5,730	50,178	176,609	1,889	13,871
	30-Jul	44	57	7	88	3,317	16,237	848	5,940	46,942	167,537	1,962	14,145
	31-Jul	39	51	0	0	3,227	16,094	588	3,975	35,715	121,231	1,272	9,533
	3-Aug	33	48	0	0	3,992	19,539	620	4,244	46,865	163,152	1,205	7,753
	4-Aug	43	57	2	44	4,102	20,327	1,110	7,827	65,300	228,288	1,541	11,102
	5-Aug	39	50	2	24	3,511	17,436	1,023	7,011	55,635	193,838	1,225	9,021
	6-Aug	45	69	7	137	5,167	25,566	1,287	9,304	64,547	237,491	1,227	8,768
	7-Aug	40	45	4	37	4,934	25,758	774	5,179	51,574	186,257	921	6,572
	8-Aug	46	65	12	128	5,909	28,661	1,085	7,390	84,753	287,819	1,050	7,531
	9-Aug	39	44	0	0	3,775	18,365	804	5,787	49,697	174,892	726	5,080
	10-Aug	46	73	14	105	4,870	24,479	1,717	12,329	70,036	250,827	996	7,033
	11-Aug	26	26	1	9	1,880	9,786	488	3,310	28,957	102,436	323	2,247

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest	12-Aug	49	68	19	143	2,164	10,986	1,312	9,220	38,761	140,407	491	3,475
Kodiak District <sup>a</sup>	13-Aug	27	41	1	21	1,716	8,825	743	4,898	25,016	90,346	265	1,834
(continued)	14-Aug	47	60	62	419	2,165	10,908	937	6,590	26,449	93,668	301	2,170
	15-Aug	30	35	1	11	2,747	13,895	722	5,254	20,890	77,111	194	1,304
	16-Aug	46	50	32	305	2,946	14,795	1,063	7,484	24,430	83,306	239	1,672
	17-Aug	31	31	40	333	2,541	12,885	845	6,039	15,993	54,340	173	1,195
	18-Aug	44	57	45	285	3,409	17,331	1,493	10,920	25,237	87,366	277	2,000
	19-Aug	35	35	19	140	1,708	8,753	1,137	8,006	15,388	52,815	184	1,170
	20-Aug	40	41	37	248	1,634	8,292	1,639	11,642	15,327	52,496	277	1,880
	21-Aug	30	31	34	245	1,245	6,377	1,415	10,538	11,166	37,076	121	856
	22-Aug	38	39	4	38	1,674	8,348	1,364	9,898	13,064	44,941	136	947
	23-Aug	32	32	11	86	1,564	7,858	1,103	8,261	12,015	38,926	98	698
	24-Aug	35	35	9	50	2,321	11,650	713	5,225	9,957	33,233	110	754
	25-Aug	34	35	7	39	2,875	14,618	1,101	8,257	11,001	36,360	148	1,036
	26-Aug	27	28	12	72	1,949	9,945	610	4,559	5,886	19,729	96	668
	27-Aug	30	31	1	5	1,708	8,822	714	5,419	6,276	20,405	88	599
	28-Aug	19	21	0	0	924	4,905	499	3,717	3,813	12,571	37	241
	29-Aug	17	17	0	0	741	4,007	299	2,303	2,721	8,662	33	213
	1-Sep	14	16	1	10	2,433	12,913	771	5,746	2,329	7,794	57	397
	2-Sep	24	25	0	0	3,813	19,704	1,332	10,186	2,963	10,047	65	438
	3-Sep	25	26	0	0	2,918	14,758	1,514	11,290	2,613	8,485	57	370
	4-Sep	19	19	1	8	1,415	7,229	696	5,433	1,163	3,688	25	165
	5-Sep	18	18	0	0	619	3,087	689	5,265	636	1,993	16	99
	6-Sep	5	5	0	0	251	1,236	175	1,309	320	1,028	9	59
	7-Sep	15	15	1	6	737	3,640	661	5,227	374	1,144	13	87
	8-Sep	12	12	0	0	1,154	5,154	404	3,090	179	579	6	33
	9-Sep	20	20	0	0	4,051	18,412	548	4,273	355	1,090	27	160
	10-Sep	12	12	1	9	1,337	6,580	491	3,835	120	379	15	95
	11-Sep	14	14	0	0	1,474	7,303	442	3,463	212	641	18	126
	12-Sep	12	12	0	0	1,825	8,142	385	2,907	32	100	4	28
	13-Sep	10	10	0	0	754	3,493	185	1,391	46	139	3	19

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest	14-Sep	7	7	0	0	694	3,094	76	597	1	3	2	15
Kodiak District <sup>a</sup>	15-Sep	8	8	0	0	579	2,705	64	510	19	57	0	0
	16-Sep <sup>b</sup>												
Total		85	2,311	476	3,930	177,616	883,158	47,332	333,332	1,266,459	4,429,672	49,824	356,554
Average weight (lb)					8.26		4.97		7.04		3.50		7.16

*Note:* Harvest numbers do not include test fish harvests or commercial harvest retained for personal use.

<sup>a</sup> Does not include Spiridon Special Harvest Area (254-50) or Settler Cove (259-35).

<sup>b</sup> Confidential.

## **APPENDIX F. NORTH SHELIKOF FISHERY SUMMARY**

## INTRODUCTION

In 1988, there was a significant harvest of large (greater than 6 lb) sockeye salmon in management units bordering the northern portion of Shelikof Strait (Appendix F2). Analysis of average weights, age composition of the harvest, review of past tagging studies, and estimates of migratory timing led to the determination that the majority of these sockeye salmon were bound for Cook Inlet (Barrett 1989). Subsequently, the Board of Fisheries determined that an expanded, nontraditional harvest pattern had developed in the Kodiak Management Area (KMA). In 1990, the *North Shelikof Strait Sockeye Salmon Management Plan* (NSSSSMP; 5 AAC 18.363) was adopted into regulation. This management plan remained largely unchanged until the 2020 Kodiak Board of Fisheries Meeting where the board expanded the area and timeframe covered by the NSSSSMP.

The NSSSSMP limits purse seine fishing opportunities in those sections of the KMA bordering the north Shelikof Strait (those waters of Shelikof Strait from Kilokak Rocks to Cape Douglas in the Mainland District and from Raspberry Cape to Shuyak Island in the Afognak District; Appendix F2). The plan covers the time period from July 6 through August 1 and establishes 3 specific sockeye salmon harvest “triggers” for defined management units within the affected zone. These triggers were established to reduce the harvest of Cook Inlet-bound sockeye salmon that migrate through the Shelikof Strait. The Southwest Afognak management unit (composed of the Southwest Afognak Section), the North Shelikof management unit (made up of the Alinchak Bay, Katmai, Dakavak Bay, Outer Kukak Bay, Hallo Bay, and Big River Sections of the Mainland District, and the Shuyak Island and Northwest Afognak Sections of the Afognak District), and The Cape Igvak Management Unit (composed of the Cape Igvak Section). Each management unit has a separate sockeye salmon harvest trigger (Appendix F2). If the sockeye salmon harvest within a unit reaches an established cap, the commercial fishing opportunities within that unit are restricted.

By regulation, “seaward zones” are established in each management unit. These zones are made up of all waters seaward of a line that is drawn from cape to cape.<sup>1</sup> The seaward zone of the Southwest Afognak management unit closes to fishing if 50,000 sockeye salmon are harvested between July 6 and July 25. The seaward zone of the North Shelikof management unit closes to fishing if 20,000 sockeye salmon are harvested between July 6 and August 1. The seaward zone of the Cape Igvak management closes to fishing if 20,000 sockeye salmon are harvested between July 6 through August 1. If a seaward zone closure occurs, only the inshore “shoreward zone” (all waters inside the line) will remain open to commercial fishing during normal fishing periods (Appendix F2; Jackson 2020).

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<sup>1</sup> In 1993, the seaward zone boundary of the Southwest Afognak unit was modified by the Alaska Board of Fisheries. The seaward zone boundary was moved ½ mile offshore of the line running cape to cape in order to allow for traditional harvest opportunities of pink salmon. In 2008, the seaward zone boundary of that portion of the North Shelikof unit in the Northwest Afognak Section was moved ½ mile offshore of the line running cape to cape in order to allow for traditional harvest opportunities for pink salmon.

In the 30 years the NSSSSMP has been in effect, the North Shelikof management unit has had seaward zone closures every year except 1991, 2000, and 2008 (Appendix F3). The seaward zone of the Southwest Afognak management unit has been closed only 3 times (in 1992, 1993, and 2003; Appendix F5).

#### **First Fishing Period (July 6 to 9)**

The first fishing period was characterized by average fishing effort and harvest rates. A total of 10 permit holders harvested 164 Chinook, 10,889 sockeye, 62 coho, 4,347 pink, and 1,263 chum salmon in the North Shelikof management unit (Appendix F6). In the Cape Igvak management unit 10 permit holders harvested 100 Chinook, 2,460 sockeye, 152 coho, 1,688 pink, and 1,405 chum salmon. Fishing effort was average in the Southwest Afognak management unit with 7 permits harvesting 20 Chinook, 1,582 sockeye, 165 coho, 3,942 pink, and 1,226 chum salmon (Appendix F8).

#### **Second Fishing Period (July 13 to 16)**

During the second fishing period, the number of the vessels fishing in the North Shelikof management unit increased along with harvest rates of sockeye salmon. By the early evening of July 13, ADF&G determined that the 20,000 fish harvest cap for the North Shelikof management units would be reached, and at 8:00 PM, it was announced that the seaward zones would close at 11:30 PM. During the second fishing period, 15 permit holders harvested 276 Chinook, 20,859 sockeye, 725 coho, 26,230 pink, and 4,214 chum salmon (Appendix F6).

Fishing effort decreased in the Cape Igvak management unit during the second fishing period and harvests were confidential as less than 3 permits participated. There was an increase in fishing effort within the Southwest Afognak management unit during the second fishing period with 13 permit holders harvesting 242 Chinook, 6,882 sockeye, 2,273 coho, 46,444 pink, and 3,848 chum salmon (Appendix F8).

#### **Third Fishing Period (July 20 to 23)**

Effort in the third period within the North Shelikof management unit was similar to the second fishing period. During the third period 17 permit holders harvested 141 Chinook, 25,291 sockeye, 1,696 coho, 76,642 pink, and 3,310 chum salmon (Appendix F6).

Fishing effort remained low in the Cape Igvak management unit and harvests were confidential during the fishing period. Fishing effort in the Southwest Afognak Section was similar to the previous fishing period with 17 permit holders harvesting 115 Chinook, 3,343 sockeye, 1,759 coho, 36,429 pink, and 1,831 chum salmon. (Appendix F8).

#### **Fourth Fishing Period (July 27 to 31)**

Fishing effort remained steady in the North Shelikof management unit during the fourth fishing period. From July 27 to July 31, 21 permit holders harvested 265 Chinook, 33,456 sockeye, 2,733 coho, 153,903 pink, and 1,862 chum salmon in the North Shelikof management unit (Appendix F6). There was no fishing effort present in the Cape Igvak management unit during the fourth fishing period.

## **Season Totals**

Within the North Shelikof management unit, for the time period from July 6 through August 1, 32 permit holders harvested a total of 846 Chinook, 96,593 sockeye, 5,296 coho, 336,147 pink, and 13,692 chum salmon (Appendices F3 and F6). The average weight of the sockeye salmon harvested in the North Shelikof Unit was 4.43 lb (Appendix F6).

In the Cape Igvak management unit, from July 6 through August 1, 10 permit holders harvested 100 Chinook, 4,000 sockeye, 337 coho, 7,181 pink and 1,704 chum salmon (Appendix F7).

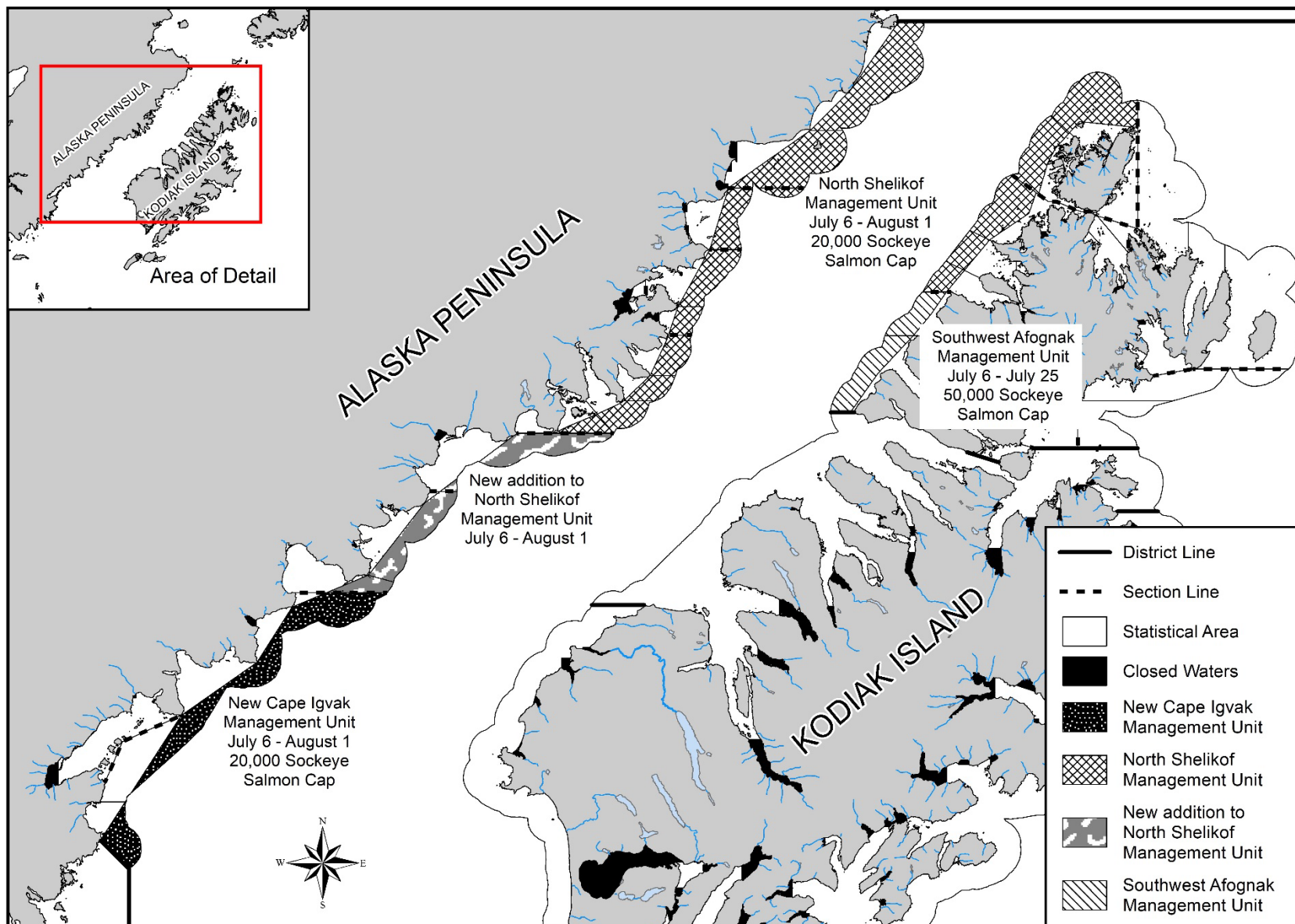
The 2020 Southwest Afognak Unit harvest for the time period from July 6 through July 25 totaled 377 Chinook, 11,807 sockeye, 4,197 coho, 86,815 pink, and 6,905 chum salmon taken by 20 permit holders (Appendices F5 and F8). The average weight of the sockeye salmon harvested in the Southwest Afognak management unit was 4.83 lb (Appendix F8).

## **REFERENCES CITED**

- Barrett, B. M. 1989. North Shelikof Strait 1988 sockeye catch distribution, timing, and stock composition. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K88-6, Kodiak.
- Jackson, J. 2020. Kodiak management area harvest strategy for the 2020 commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K20-08, Kodiak.



Appendix F2.—Map showing the North Shelikof management area.



Appendix F3.—Summary of fishing time, zone closures, effort, and harvest by species, for the North Shelikof management unit of the Kodiak Management Area, 2000–2020.

Year	Mainland		North Afognak		Zone closure		Estimated sockeye harvest at time of zone closure	Number of vessels	Total salmon harvest by species: July 6 through July 25/August 1					Upper Cook Inlet sockeye harvest (in millions)
	# of days open to fishing	# of days Seaward Zone closed	# of days open to fishing	# of days Seaward Zone closed					Chinook	Sockeye	Coho	Pink	Chum	
					Date	Time								
2000	7.1	0.0	10.1	0.0	none	none	no closure	31	68	9,225	1,045	20,215	22,155	1.3
2001	7.1	2.7	10.1	4.7	16-Jul	1:00 PM	14,729	26	245	22,321	9,943	33,534	10,348	1.8
2002	7.1	2.4	10.1	4.7	15-Jul	5:00 PM	16,600	35	295	35,290	13,181	238,734	13,708	2.8
2003	7.1	5.1	13.1	11.1	8-Jul	12:00 PM	16,448	37	120	33,122	1,054	35,151	6,500	3.5
2004	7.1	3.5	13.1	7.5	13-Jul	5:00 PM	16,000	36	533	53,334	3,756	44,886	14,710	4.9
2005	7.1	3.8	13.1	8.3	13-Jul	12:01 AM	17,400	22	87	59,856	1,809	27,269	5,361	5.1
2006	8.6	4.3	17.3	9.9	14-Jul	12:00 PM	15,000	31	482	82,538	8,312	146,445	33,075	2.4
2007	7.1	4.7	13.8	8.9	8-Jul	9:00 PM	12,688	28	266	17,407	566	14,340	5,083	3.3
2008	8.6	0.0	8.6	0.0	none	none	no closure	7	175	5,227	512	18,924	5,082	2.8
2009	7.1	2.4	13.1	6.4	15-Jul	9:00 PM	12,626	14	179	15,645	620	47,694	6,061	2.3
2010	7.1	5.1	10.1	8.1	8-Jul	1:00 PM	14,441	19	609	18,920	2,009	75,481	10,820	2.8
2011	7.1	0.3	13.1	2.3	22-Jul	1:00 PM	25,625	26	386	28,805	2,275	16,162	8,688	5.4
2012	7.1	0.3	13.1	2.3	22-Jul	1:00 PM	33,173	26	141	42,184	691	78,244	16,655	3.1
2013	7.1	2.4	9.1	4.3	15-Jul	9:00 PM	15,565	16	427	15,565	387	14,146	6,258	2.6
2014	7.1	2.4	13.1	10.8	8-Jul	5:00 PM	21,099	50	164	143,909	4,808	133,580	12,085	2.3
2015	7.1	2.8	13.1	7.8	15-Jul	3:00 PM	22,332	35	152	82,225	7,292	288,989	11,605	2.6
2016	7.1	4.7	11.1	9.0	8-Jul	9:00 PM	14,591	24	387	101,856	2,406	24,579	11,566	2.4
2017	7.1	3.4	13.1	5.4	14-Jul	1:00 PM	17,401	35	457	67,843	2,258	74,592	33,248	1.8
2018	7.1	0.0	7.1	0.0	25-Jul	8:00 PM	15,999	16	307	16,066	1,097	20,479	6,073	0.8
2019	7.1	2.0	13.1	4.0	20-Jul	8:00 PM	14,164	21	76	55,926	1,513	183,281	8,086	1.7
2020 <sup>a</sup>	9.5	6.6	12.5	8.6	13-Jul	11:30 PM	17,945	32	846	96,593	5,296	336,147	13,692	0.7

*Note:* In 1988, the Upper Cook Inlet sockeye salmon run was strong, with a commercial harvest of approximately 6,800,000 sockeye salmon. In the Kodiak Area, within the North Shelikof management unit from July 6 through July 25, 1988, with 6.9 days open to fishing, 392,000 sockeye salmon were harvested. This led to adoption of regulations to limit the sockeye salmon harvest in the North Shelikof (15,000 fish) and Southwest Afognak (50,000 fish) management units (5 AAC 18.363).

<sup>a</sup> Beginning in 2020, the Katmai and Alinchak Bay Sections were added to the North Shelikof Management Unit and the harvest limit was increased from 15,000 sockeye salmon to the new harvest limit of 20,000 sockeye salmon. The Cape Igvak section was added as well with a harvest limit of 20,000 sockeye salmon. Additionally, the North Shelikof Management Unit is now managed from July 6 through August 1, previously this management plan ended on July 25.

Appendix F4.—Summary of fishing time, zone closures, effort, and harvest by species, for the Cape Igvak management unit of the Kodiak Management Area, 2020.

Year	Cape Igvak				Estimated sockeye havest at time of zone closure	Number of vessels	Total salmon harvest by species: July 6 through August 1					Upper Cook Inlet sockeye harvest (in millions)
	# of days open to fishing	# of days Seaward Zone closed	Zone closure				Chinook	Sockeye	Coho	Pink	Chum	
	Date	Time										
2020	9.5	0.0	none	none	no closure	10	100	4,000	337	7,181	1,704	0.7

Appendix F5.—Summary of fishing time, zone closures, effort, and harvest by species, for the Southwest Afognak management unit of the Kodiak Management Area, 2000–2020.

Year	Southwest Afognak		Zone closure		Estimated sockeye harvest at time of zone closure	Number of vessels	Total salmon harvest by species: July 6 through July 25					Upper Cook Inlet sockeye harvest (in millions)
	# of days open to fishing	# of days Seaward Zone closed					Chinook	Sockeye	Coho	Pink	Chum	
	Date	Time										
2000	10.6	0.0	none	none	no closure	31	90	17,810	1,220	37,340	7,225	1.3
2001	10.6	0.0	none	none	no closure	48	517	33,289	7,139	191,947	15,913	1.8
2002	10.6	0.0	none	none	no closure	32	502	23,691	3,742	122,892	4,821	2.8
2003	13.1	6.4	16-Jul	8:00 PM	66,000	41	125	119,490	6,006	238,088	15,829	3.5
2004	13.1	0.0	none	none	no closure	25	3,048	24,515	7,918	227,062	19,315	4.9
2005	13.1	0.0	none	none	no closure	29	492	30,262	1,501	156,150	2,754	5.1
2006	16.7	0.0	none	none	no closure	22	1,858	24,182	3,626	154,352	15,151	2.4
2007	13.1	0.0	none	none	no closure	26	2,222	20,704	2,899	191,203	5,353	3.3
2008	8.6	0.0	none	none	no closure	22	2,105	17,216	1,564	99,923	11,727	2.8
2009	14.3	0.0	none	none	no closure	26	182	42,687	1,957	169,217	12,828	2.3
2010	10.1	0.0	none	none	no closure	33	785	26,023	1,751	292,004	12,841	2.8
2011	13.1	0.0	none	none	no closure	17	282	14,672	2,107	23,355	8,257	5.4
2012	10.6	0.0	none	none	no closure	30	365	33,921	1,075	150,497	14,995	3.1
2013	9.6	0.0	none	none	no closure	21	353	17,578	708	95,814	6,708	2.6
2014	13.6	0.0	none	none	no closure	41	58	56,688	3,756	91,897	9,175	2.3
2015	13.6	0.0	none	none	no closure	25	202	38,294	7,459	300,593	11,260	2.6
2016	11.1	0.0	none	none	no closure	28	35	19,239	745	51,034	4,442	2.4
2017	13.1	0.0	none	none	no closure	27	303	20,694	1,665	190,294	14,136	1.8
2018	8.6	0.0	none	none	no closure	5	10	936	406	2,672	747	0.8
2019	14.3	0.0	none	none	no closure	44	254	51,743	1,925	519,913	6,239	1.7
2020	10.1	0.0	none	none	no closure	20	377	11,807	4,197	86,815	6,905	0.7

*Note:* In 1988, the Upper Cook Inlet sockeye salmon run was very strong, with a commercial harvest was approximately 6,800,000 sockeye salmon. In the Kodiak Area, within the North Shelikof management unit from July 6 through July 25, 1988, with 6.9 days open to fishing, 392,000 sockeye salmon were harvested. This led to adoption of regulations to limit the sockeye salmon harvest in the North Shelikof (15,000 fish) and Southwest Afognak (50,000 fish) management units (5 AAC 18.363).

Appendix F6.—Daily salmon harvest by species for the North Shelikof management units of the North Shelikof Strait Sockeye Salmon Management Plan, 2020.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First period (July 6–July 9)												
6-Jul	5	5	0	0	663	2,983	3	15	428	1,299	84	649
7-Jul	3	3	163	923	5,163	24,437	35	291	1,595	5,005	720	5,653
8-Jul	4	4	1	4	5,063	25,877	24	151	2,324	6,302	459	3,180
Total	9	12	164	927	10,889	53,296	62	457	4,347	12,607	1,263	9,482
Average weight (lb)				5.65		4.89		7.37		2.90		7.51
Second period (July 13–July 16)												
13-Jul	13	13	276	1,463	21,185	81,389	276	2,411	12,477	41,081	2,671	20,855
15-Jul	4	4	0	0	4,692	18,139	486	3,186	15,445	50,164	1,900	13,107
Total	15	17	276	1,463	25,877	99,528	762	5,597	27,922	91,245	4,571	33,962
Average weight (lb)				5.30		3.85		7.35		3.27		7.43
Third period (July 20–July 23)												
20-Jul	13	15	123	1,146	11,255	57,026	646	4,414	51,458	159,019	1,564	11,710
21-Jul	6	7	10	45	9,920	44,670	483	3,038	21,539	72,337	1,212	8,268
22-Jul	4	4	8	53	5,196	21,836	610	3,686	15,301	52,501	680	5,270
Total	17	26	141	1,244	26,371	123,532	1,739	11,139	88,298	283,857	3,456	25,248
Average weight (lb)				8.82		4.68		6.41		3.21		7.31
Fourth period (July 27–July 31)												
27-Jul	11	11	52	553	27,133	116,057	1,850	12,326	127,730	400,476	3,743	27,030
28-Jul	5	5	39	283	3,271	16,089	383	2,390	23,273	80,342	420	3,135
29-Jul	6	6	174	946	3,052	14,775	500	3,042	24,062	83,367	239	1,608
30-Jul <sup>a</sup>	1	1	0	0	0	0	0	0	28,853	92,331	0	0
31-Jul <sup>a</sup>	1	1	0	0	0	0	0	0	11,662	41,983	0	0
Total	12	24	265	1,782	33,456	146,921	2,733	17,758	215,580	698,499	4,402	31,773
Average weight (lb)				6.72		4.39		6.50		3.24		7.22
<u>North Shelikof Management Harvest July 6–August 1</u>												
Total	32	79	846	5,416	96,593	423,277	5,296	34,950	336,147	1,086,207	13,692	100,465
Average weight (lb)				6.40		4.38		6.60		3.23		7.34

<sup>a</sup> Confidential.

Appendix F7.—Daily salmon harvest by species in the Cape Igvak management unit of the North Shelikof Strait Sockeye Salmon Management Plan, 2020.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum		
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	
First period (July 6–July 8)													
6-Jul	10	10	100	503	1,997	9,656	90	540	1,466	4,989	1,039	7,067	
8-Jul <sup>a</sup>													
Total	10	11	100	503	2,460	11,736	152	974	1,688	5,655	1,405	9,995	
Average weight (lb)				5.03		4.77		6.41		3.35		7.11	
Second period (July 13–July 15)													
13-Jul <sup>a</sup>													
Total <sup>a</sup>													
Average weight (lb)													
Third period (July 20–July 22)													
21-Jul <sup>a</sup>													
Total <sup>a</sup>													
Average weight (lb)													
Fourth period (July 27–July 29)													
Total	0	0	0	0	0	0	0	0	0	0	0	0	
Average weight (lb)				0.0		0.0		0.0		0.0		0.0	
<u>Cape Igvak Management Unit Harvest July 6–August 1</u>													
Total	10	13	100	503	4,000	16,955	337	2,084	7,181	19,808	1,704	12,504	
Average weight (lb)				5.03		4.24		6.18		2.76		7.34	

<sup>a</sup> Confidential.

Appendix F8.—Daily salmon harvest by species in the Southwest Afognak management unit of the North Shelikof Strait Sockeye Salmon Management Plan, 2020.

Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
			Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First Period (July 6–July 9)												
6-Jul	3	3	2	6	715	3,146	29	173	709	2,370	567	4,200
7-Jul <sup>a</sup>												
8-Jul	3	4	18	203	590	3,032	59	502	2,602	7,418	575	5,666
Total	7	10	20	209	1,582	7,586	165	1,316	3,942	11,378	1,226	10,656
Average weight (lb)				10.45		4.79		7.98		2.89		8.69
Second Period (July 13–July 16)												
13-Jul	5	5	27	165	801	4,233	268	2,080	5,466	21,140	1,341	9,385
14-Jul	5	5	0	0	1,098	6,597	170	1,331	9,523	35,745	842	5,692
15-Jul	7	8	174	602	4,494	18,632	1,785	13,258	30,363	102,635	1,576	10,400
16-Jul <sup>a</sup>												
Total	13	19	242	975	6,882	31,452	2,273	16,947	46,444	163,123	3,848	26,086
Average weight (lb)				4.03		4.57		7.46		3.51		6.78
Third Period (July 20–July 23)												
20-Jul	6	6	72	699	1,353	7,958	758	5,946	14,062	54,051	802	5,681
21-Jul <sup>a</sup>												
22-Jul	9	10	43	179	1,793	8,759	806	5,720	19,507	70,690	780	4,764
Total	11	17	115	878	3,343	17,965	1,759	12,885	36,429	135,419	1,831	11,876
Average weight (lb)				7.63		5.37		7.33		3.72		6.49
SW Afognak Management Harvest July 6–July 25												
Total	20	46	377	2,062	11,807	57,002	4,197	31,148	86,815	309,920	6,905	48,618
Average weight (lb)				5.47		4.83		7.42		3.57		7.04





## **APPENDIX G. EASTSIDE AFOGNAK FISHERY SUMMARY**

## INTRODUCTION

In 1990, the Board of Fisheries adopted the *Eastside Afognak Salmon Management Plan* (5 AAC 18.365) into regulation to manage the fisheries in the vicinity of the Kitoi Bay Hatchery. The plan has been in effect with occasional modification since 1981 and was formulated jointly by Kodiak Management Area (KMA) commercial fishery managers and the Kitoi Bay Hatchery manager. This hatchery, on the east side of Afognak Island (Appendix G2), produces significant returns of pink, chum, and coho salmon. The goal of this plan is to achieve escapement and harvest objectives for salmon stocks of the Raspberry Straits, Southeast Afognak, Duck Bay, Izhut Bay, and Kitoi Bay Sections, and ensure broodstock for the hatchery. This plan details the key species and targeted stocks that are managed in each of these sections throughout the fishing season.

### 2020 Eastside Afognak Fishery

Management of the Southeast Afognak Section is based on local salmon runs. Fisheries can be allowed from June 1 to July 5 based on the sockeye salmon returning to the Afognak Lake system, and after July 5 based on local pink, chum, and coho salmon. Due to low Afognak Lake sockeye salmon escapement, the Southeast Afognak Section remained closed during the initial opening for KMA sockeye salmon on June 9. Afognak Lake sockeye salmon escapement continued to be low and the Southeast Afognak Section remained closed until July 13 as the department transitioned to pink salmon management. A total of 31 permit holders harvested 16 Chinook, 978 sockeye, 9,026 coho, 422,104 pink, and 391 chum salmon (Appendix G3). The 2020 sockeye salmon escapement into Afognak Lake was 24,614 fish (Fuerst 2021), which was within the escapement goal range of 20,000 to 50,000 fish (McKinley et al. 2019).

The salmon fishery targeting Kitoi Bay Hatchery fish began on June 9 with the last delivery occurring on September 14. In fisheries targeting the Kitoi Bay Hatchery return—which include the Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay Sections—104 permit holders harvested 134 Chinook, 18,031 sockeye, 124,728 coho, 4,581,857 pink, and 20,862 chum salmon (Appendix G3). The hatchery pink salmon and late-run sockeye salmon harvests were above the forecast while early-run sockeye, coho, and chum salmon harvests were all below the preseason forecasts (Brenner et al. 2020).

Kodiak Regional Aquaculture Association did not conduct a cost recovery fishery in 2020.

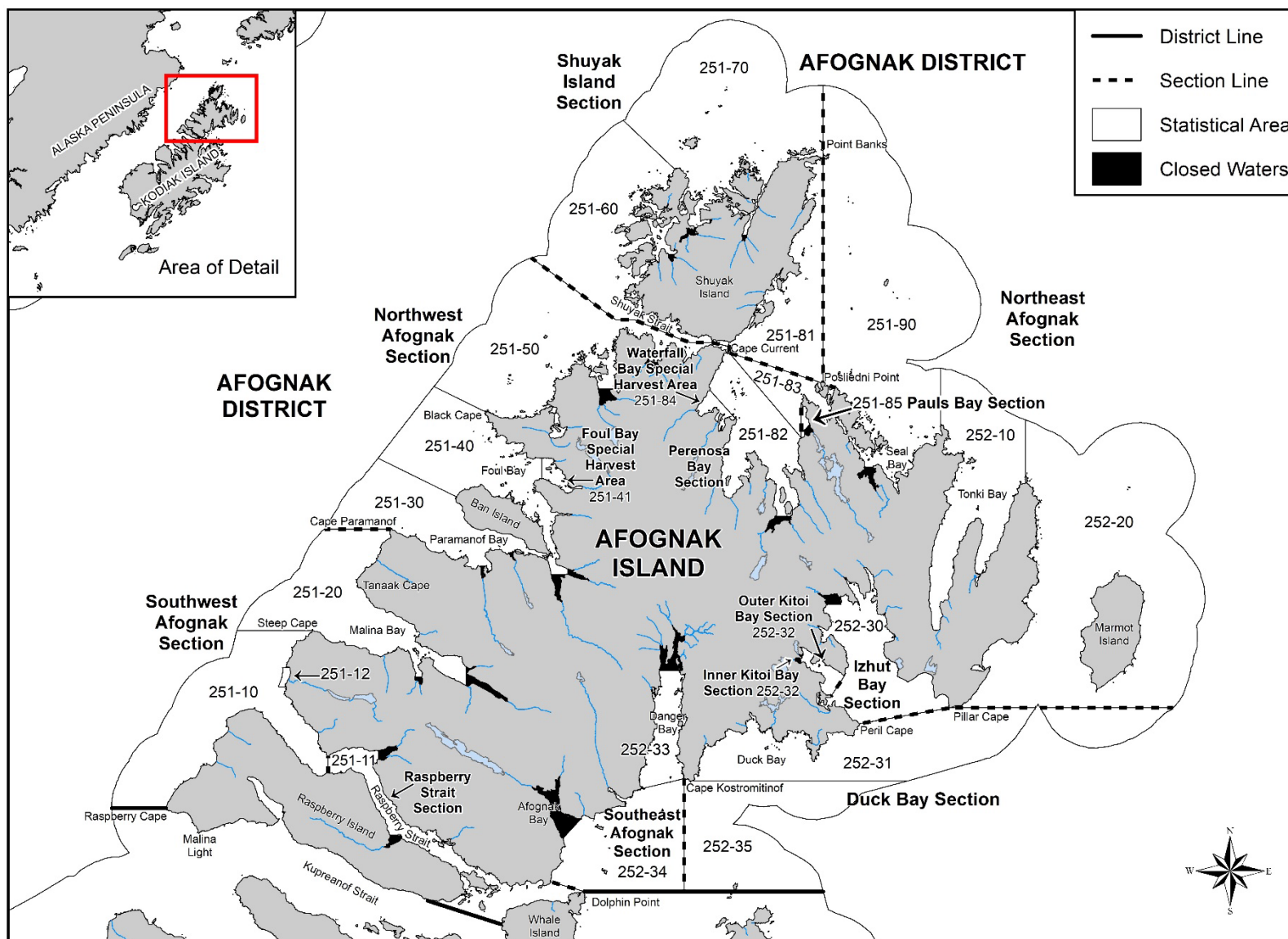
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## **REFERENCES CITED**

- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage.
- Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21- 04, Kodiak.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.

Appendix G2.—Map of the Afognak District of the Kodiak Management Area.



Appendix G3.—Daily salmon harvest by species for the management units of the East Afognak Management Plan, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
SE Afognak Sections 252-33 and 34	21-Jul <sup>a</sup>												
	3-Aug	3	3	0	0	185	885	263	1,604	21,396	76,020	56	410
	4-Aug <sup>a</sup>												
	5-Aug	4	4	3	55	89	416	186	802	27,429	87,405	23	121
	6-Aug	4	4	1	14	97	449	174	1,238	29,178	95,858	33	239
	7-Aug	6	7	2	42	64	297	171	1,092	27,746	105,958	34	235
	8-Aug <sup>a</sup>												
	14-Aug <sup>a</sup>												
	15-Aug <sup>a</sup>												
	16-Aug <sup>a</sup>												
	17-Aug	4	4	0	0	25	113	397	2,707	13,273	56,689	12	81
	18-Aug <sup>a</sup>												
	20-Aug	7	10	0	0	107	464	1,391	9,992	72,803	239,426	12	64
	21-Aug	4	4	0	0	31	136	523	4,078	15,595	54,758	3	18
	22-Aug	11	13	0	0	90	406	2,449	16,142	71,974	286,264	103	619
	23-Aug	10	11	10	79	75	375	1,339	9,748	46,766	171,489	12	67
	24-Aug	8	8	0	0	19	95	728	4,456	19,114	70,200	11	78
	27-Aug <sup>a</sup>												
	28-Aug	4	4	0	0	26	103	596	4,683	18,969	60,373	3	16
	29-Aug <sup>a</sup>												
	8-Sep <sup>a</sup>												
Total		31	86	16	190	978	4,535	9,026	62,516	422,104	1,536,876	391	2,577
Average weight (lb)					11.88		0.00		6.93		3.64		6.59
Izhut Bay Section 252-30	9-Jun <sup>a</sup>												
	19-Jun <sup>a</sup>												
	20-Jun <sup>a</sup>												
	27-Jun	4	5	0	0	313	1,437	1	5	43	144	3,754	31,669
	28-Jun <sup>a</sup>												
	29-Jun	4	4	1	2	264	592	7	41	23	73	2,243	13,572
	21-Jul <sup>a</sup>												

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Izhut Bay Section 252-30 (continued)	23-Jul <sup>a</sup>												
	27-Jul <sup>a</sup>												
	28-Jul <sup>a</sup>												
	29-Jul	5	5	0	0	669	2,146	234	1,562	25,935	80,863	488	2,049
	30-Jul <sup>a</sup>												
	31-Jul	10	10	1	6	314	1,507	246	1,674	34,347	122,871	242	2,197
	1-Aug	4	4	0	0	133	672	202	1,191	19,220	66,751	83	675
	2-Aug	10	11	1	19	240	1,010	193	1,187	54,041	184,046	116	515
	3-Aug	8	8	3	29	152	610	101	595	56,965	188,825	157	590
	4-Aug	8	8	0	0	446	1,583	868	4,022	74,347	198,339	142	869
	5-Aug	6	6	0	0	94	380	159	1,128	34,720	106,382	37	238
	6-Aug	7	8	0	0	117	478	341	1,922	36,460	131,273	97	823
	7-Aug	6	6	0	0	79	344	91	546	31,744	113,356	20	101
	8-Aug	6	7	0	0	34	171	105	754	24,751	87,765	2	11
	9-Aug	6	7	0	0	57	203	382	2,202	68,624	194,601	14	79
	10-Aug	19	22	0	0	485	2,157	1,718	10,515	168,083	594,106	116	720
	11-Aug	17	18	0	0	131	540	1,045	6,429	103,835	338,690	46	258
	12-Aug	20	21	0	0	289	1,076	1,698	9,247	96,950	337,156	47	215
	13-Aug	15	15	0	0	113	561	1,212	7,908	68,669	292,054	34	216
	14-Aug	12	12	0	0	86	320	745	5,052	58,623	233,566	27	131
	15-Aug	3	3	0	0	30	116	143	854	14,632	55,826	1	4
	19-Aug	28	30	0	0	107	517	2,073	14,409	167,671	583,941	10	52
	20-Aug	10	10	4	42	59	278	1,630	10,994	55,860	202,463	19	103
	21-Aug	7	7	0	0	33	149	1,856	13,385	35,798	117,960	19	100
	22-Aug	3	4	0	0	15	68	772	6,024	13,492	54,615	2	11
	23-Aug	9	9	1	7	27	120	2,271	16,308	29,092	105,003	9	64
	24-Aug	7	7	0	0	17	89	2,257	17,536	34,816	115,634	3	20
	25-Aug	11	11	0	0	76	332	5,071	40,560	65,596	213,552	6	35
	26-Aug	11	11	0	0	60	281	3,751	29,403	55,659	194,903	1	6
	27-Aug	16	17	0	0	146	614	8,164	61,678	89,650	319,206	8	55
	28-Aug	20	23	0	0	156	715	7,388	54,560	69,559	253,833	6	32

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Izhut Bay Section	29-Aug	13	13	0	0	266	1,053	3,798	33,239	62,821	208,738	7	39
252-30	30-Aug	12	12	0	0	96	471	4,127	34,899	56,907	195,598	17	110
(continued)	31-Aug	13	13	0	0	106	473	4,151	28,091	70,228	242,887	1	10
	1-Sep	21	21	0	0	140	520	3,733	30,538	71,487	229,130	7	40
	2-Sep	14	14	0	0	47	210	2,163	16,990	35,484	125,755	14	65
	3-Sep	12	12	0	0	25	130	1,667	13,336	27,094	92,297	2	9
	4-Sep	12	12	0	0	155	668	1,155	9,924	19,988	69,587	3	16
	5-Sep	10	11	0	0	16	70	1,422	13,372	29,109	95,354	2	11
	6-Sep <sup>a</sup>												
	7-Sep	9	9	0	0	20	93	1,105	8,978	12,461	44,783	0	0
	8-Sep <sup>a</sup>												
	13-Sep <sup>a</sup>												
	14-Sep <sup>a</sup>												
Total		79	447	12	119	6,626	27,394	68,939	518,175	2,015,957	6,923,387	10,506	72,513
Average weight (lb)					9.92		0.00		7.52		3.43		6.90
Duck Bay	10-Jun <sup>a</sup>												
Sections	14-Jun <sup>a</sup>												
252-31 and 35	18-Jun <sup>a</sup>												
	19-Jun <sup>a</sup>												
	13-Jul <sup>a</sup>												
	15-Jul <sup>a</sup>												
	20-Jul	8	8	4	40	949	3,543	672	4,689	9,399	32,726	638	3,991
	22-Jul	6	6	2	10	550	2,534	558	3,573	17,047	63,928	441	2,951
	23-Jul <sup>a</sup>												
	27-Jul	4	4	0	0	340	1,454	441	3,282	21,907	64,992	251	1,356
	28-Jul <sup>a</sup>												
	29-Jul	6	8	0	0	700	3,097	489	3,026	39,380	128,143	629	3,958
	30-Jul	6	7	6	37	361	1,808	449	3,278	38,709	141,758	173	1,314
	31-Jul <sup>a</sup>												
	3-Aug	9	9	2	36	375	1,689	686	4,414	55,796	194,231	138	944
	4-Aug	7	9	2	55	319	1,853	1,036	6,326	49,588	215,294	130	968

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Duck Bay	5-Aug	14	15	4	45	259	1,239	941	6,041	102,717	360,137	146	953
Sections	6-Aug	11	11	2	5	162	785	568	3,445	69,853	255,845	53	376
252-31 and 35	7-Aug	14	14	0	0	230	1,157	994	5,922	89,421	330,391	141	945
(continued)	8-Aug	18	18	1	22	206	957	779	5,657	102,724	370,092	99	685
	9-Aug	15	16	0	0	255	1,298	1,001	6,340	84,209	285,664	82	589
	10-Aug	10	10	5	45	306	1,630	1,213	7,362	65,428	214,288	126	888
	11-Aug	8	8	0	0	127	564	390	2,637	59,221	192,173	7	57
	12-Aug	19	23	0	0	212	911	1,979	12,892	136,043	471,781	102	707
	13-Aug	11	12	0	0	95	445	1,249	9,123	74,078	273,677	22	105
	14-Aug	13	13	21	160	270	1,115	1,779	11,384	77,093	272,985	32	179
	15-Aug	12	15	0	0	123	602	1,174	7,837	88,289	332,505	21	130
	16-Aug	14	16	1	11	245	1,044	1,067	6,628	109,025	423,044	56	271
	17-Aug <sup>a</sup>												
	18-Aug	23	24	39	257	700	3,116	2,841	19,260	116,600	423,077	113	659
	19-Aug	19	22	0	0	209	931	4,527	32,191	139,345	470,584	67	428
	20-Aug	21	22	4	42	466	2,494	3,780	24,781	144,994	529,548	113	611
	21-Aug	16	16	0	0	469	1,701	3,016	23,156	98,747	330,941	28	183
	22-Aug	14	16	25	154	225	929	3,199	23,179	79,650	272,798	45	239
	23-Aug	19	19	0	0	142	586	3,612	24,677	84,444	259,080	29	182
	24-Aug	15	15	0	0	63	288	1,467	11,540	41,584	118,834	12	71
	26-Aug	9	9	0	0	58	275	1,253	10,632	51,168	163,675	1	6
	27-Aug	12	13	0	0	195	943	2,177	17,247	64,907	217,338	17	98
	28-Aug	11	11	0	0	186	796	1,999	14,459	62,921	211,068	7	31
	29-Aug <sup>a</sup>												
	1-Sep	5	5	0	0	48	179	1,322	11,013	20,171	61,000	1	9
	2-Sep	4	5	0	0	68	210	764	6,497	16,303	51,135	13	53
	3-Sep	6	6	0	0	96	438	1,564	11,659	34,903	113,003	12	69

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Duck Bay	4-Sep	7	7	0	0	36	143	306	2,412	20,446	69,258	0	0
Sections	8-Sep	4	4	0	0	17	78	73	700	2,428	7,644	0	0
252-31 and 35	9-Sep	4	4	0	0	20	123	251	2,549	5,459	17,860	0	0
(continued)													
Total		82	434	122	961	10,354	45,580	50,774	357,663	2,320,323	8,087,724	4,473	28,413
Average weight (lb)					7.88		4.40		7.04		3.49		6.35
Inner and Outer	17-Jun <sup>a</sup>												
Kitoi Bay Sections	18-Jun <sup>a</sup>												
252-32	19-Jun <sup>a</sup>												
	20-Jun <sup>a</sup>												
	27-Jul	4	4	0	0	219	899	100	566	15,702	47,389	1,649	8,830
	29-Jul	4	4	0	0	256	1,026	181	1,264	17,933	57,399	316	1,516
	30-Jul	3	4	0	0	120	395	2	15	14,277	39,794	772	3,391
	31-Jul <sup>a</sup>												
	2-Aug <sup>a</sup>												
	3-Aug <sup>a</sup>												
	5-Aug <sup>a</sup>												
	6-Aug <sup>a</sup>												
	7-Aug	3	3	0	0	27	111	17	95	17,341	59,442	16	82
	8-Aug	3	3	0	0	40	166	79	463	24,544	76,818	28	159
	9-Aug <sup>a</sup>												
	10-Aug <sup>a</sup>												
	11-Aug	4	5	0	0	43	154	236	1,358	30,639	111,611	4	13
	19-Aug <sup>a</sup>												
	20-Aug <sup>a</sup>												
	30-Aug <sup>a</sup>												
	31-Aug	4	4	0	0	0	0	1,210	9,643	8,944	29,484	0	0
	1-Sep	5	5	0	0	12	58	804	6,401	15,410	69,646	0	0

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner and Outer Kitoi Bay	2-Sep <sup>a</sup>												
Sections 252-32	7-Sep <sup>a</sup>												
(continued)	8-Sep <sup>a</sup>												
Total		28	59	0	0	1,051	4,228	5,015	36,185	245,577	835,512	5,883	37,126
Average weight (lb)					5.10		4.76		7.54		2.89		7.12
Management unit		Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Management Units Targeting Kitoi Hatchery (Inner and Outer Kitoi, Izhut, and Duck Bay Sections)													
Subtotal		104	940	134	1,080	18,031	77,203	124,728	912,023	4,581,857	15,846,623	20,862	138,052
Average weight (lb)					8.06		4.28		7.31		3.46		6.62
East Afognak Management Units													
Grand total		105	1,026	150	1,270	19,009	81,738	133,754	974,539	5,003,961	17,383,500	21,253	140,629
Average weight (lb)					8.47		4.30		7.29		3.47		6.62

<sup>a</sup> Confidential.

## **APPENDIX H. SPIRIDON BAY SPECIAL HARVEST AREA FISHERY SUMMARY**

## INTRODUCTION

Adult sockeye salmon return each year to Telrod Cove in Spiridon Bay as a result of a juvenile stocking program of Spiridon Lake and net pen production in Telrod Cove conducted by Kodiak Regional Aquaculture Association (KRAA; Appendix H2). Some of these fish were harvested in Westside Kodiak commercial fisheries, and the remainder were harvested in a terminal fishery in the Spiridon Bay Special Harvest Area (SBSHA) in Telrod Cove. A total return of approximately 115,000 Spiridon Lake sockeye salmon (including Telrod Cove net pen production) were expected in 2020 (Brenner et al. 2020). Sockeye salmon stocked into Spiridon Lake were from Saltery Lake broodstock. Spiridon Lake sockeye salmon are expected to return in late June to early July, peak in mid- to late July, and end by mid-August which coincides with Saltery Lake sockeye salmon run timing.

### 2020 Spiridon Bay Sockeye Salmon Fishery

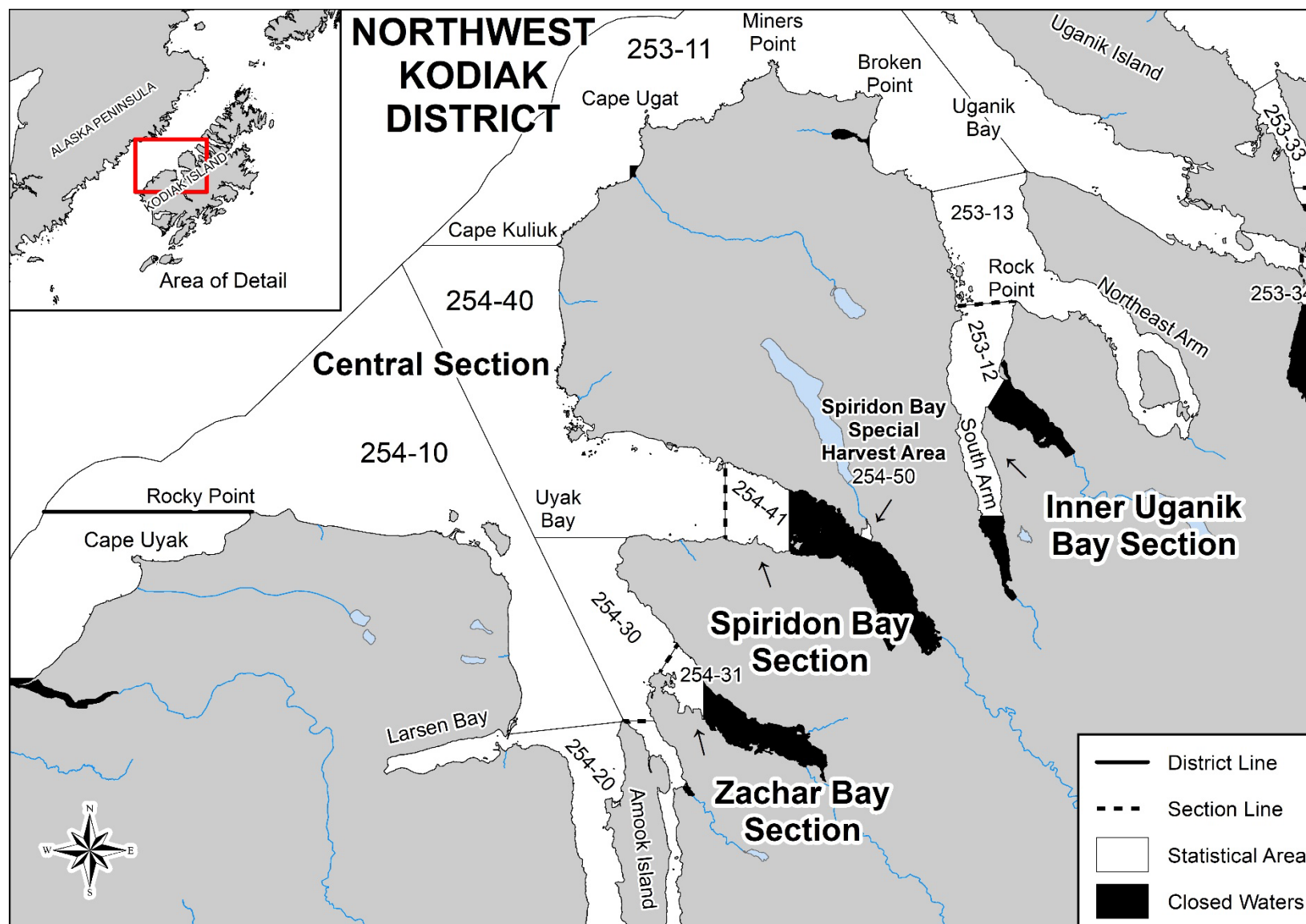
In 2020, KRAA did not conduct a cost recovery fishery in Telrod Cove targeting Spiridon sockeye salmon. The common property fishery in the SBSHA opened on June 27 and remained open until the sockeye salmon run began to subside (August 16). Twenty-three seine permit holders harvested a total of 1 Chinook, 68,196 sockeye, 22 coho, 22,780 pink, and 1,630 chum salmon in the common property fishery in SBSHA (Appendix H3). The total number of sockeye salmon harvested in Telrod Cove and the adjacent Spiridon Bay Section was 70,857 fish (Appendix H4).

In 2020, liberal fishing time along the west side of Kodiak Island for salmon in early July continued throughout the rest of the month and into August as it became known that the pink salmon run was coming in as forecasted. As a result of the increased fishing time in July, the percentage of Spiridon-bound sockeye salmon harvested in areas outside of SBSHA was likely higher than some previous years. The total number of sockeye salmon returning to the Spiridon enhancement project that were sold in 2020 was estimated at 133,615 fish, with approximately 53% (70,857 fish) harvested within SBSHA/Spiridon Bay Section, and an estimated 47% (62,758 fish) harvested in the Southwest Afognak Section of the Afognak District and the Central, North Cape Sections of the Northwest Kodiak District (Appendix H4). This estimate was based on the correlation between the number of days of commercial fishing in the Central Section of the Northwest Kodiak District (excluding the SBSHA) and the previously estimated portion of Spiridon Lake sockeye salmon harvested in the SBSHA determined from scale pattern analyses from commercial harvests from 2008 to 2012 (Moore 2013).

## REFERENCES CITED

- Brenner, R. E., S. J. Larsen, A. R. Munro, and A. M. Carroll, editors. 2020. Run forecasts and harvest projections for 2020 Alaska salmon fisheries and review of the 2019 season. Alaska Department of Fish and Game, Special Publication No. 20-06, Anchorage.
- Moore, M. L. 2013. Kodiak Management Area salmon escapement and catch sampling results, 2012. Alaska Department of Fish and Game, Fishery Data Series No. 13-48, Anchorage.

Appendix H2.—Map of the Spiridon Bay Special Harvest Area in the Northwest Kodiak District.



Appendix H3.—Daily salmon harvest by species in the Spiridon Bay Special Harvest Area, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Spiridon Bay SHA 254-50	27-Jun	9	9	0	0	3,497	14,911	0	0	21	65	32	249
	28-Jun <sup>a</sup>												
	29-Jun	8	8	1	5	2,822	12,341	0	0	42	158	43	377
	30-Jun	5	5	0	0	886	3,179	0	0	12	38	9	80
	1-Jul	5	5	0	0	1,627	9,417	0	0	17	64	13	86
	2-Jul	3	3	0	0	2,460	10,465	0	0	30	90	21	189
	3-Jul	4	4	0	0	3,498	17,088	0	0	90	268	65	515
	4-Jul	4	4	0	0	4,160	16,281	0	0	103	336	45	318
	5-Jul	4	4	0	0	2,085	8,667	0	0	103	302	11	106
	6-Jul	4	4	0	0	2,119	10,302	0	0	262	871	99	820
	7-Jul <sup>a</sup>												
	8-Jul	4	4	0	0	762	3,156	1	4	276	851	20	180
	9-Jul	6	6	0	0	1,347	6,345	1	5	530	895	82	658
	10-Jul <sup>a</sup>												
	11-Jul	5	5	0	0	2,183	8,853	0	0	653	1,948	65	619
	12-Jul	7	7	0	0	3,283	12,307	0	0	655	2,093	55	472
	13-Jul	3	4	0	0	1,697	9,129	0	0	476	1,169	54	467
	14-Jul <sup>a</sup>												
	15-Jul	4	5	0	0	3,291	16,607	0	0	1,362	2,623	156	1,273
	16-Jul	3	5	0	0	1,655	7,931	20	129	1,653	2,942	78	592
	17-Jul <sup>a</sup>												
	18-Jul <sup>a</sup>												
	19-Jul	4	5	0	0	1,260	5,172	0	0	262	822	32	318
	20-Jul <sup>a</sup>												
	21-Jul	4	4	0	0	1,749	7,425	0	0	402	1,248	55	470
	22-Jul	3	3	0	0	955	3,983	0	0	598	1,920	48	400
	23-Jul <sup>a</sup>												
	24-Jul	3	3	0	0	1,353	5,391	0	0	1,002	3,056	175	1,559
	26-Jul <sup>a</sup>												

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Appendix H4.–Page 2 of 2.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Spiridon Bay SHA 254-50	27-Jul <sup>a</sup>												
	28-Jul <sup>a</sup>												
	29-Jul <sup>a</sup>												
	30-Jul <sup>a</sup>												
	1-Aug <sup>a</sup>												
	2-Aug <sup>a</sup>												
	3-Aug <sup>a</sup>												
	4-Aug <sup>a</sup>												
	5-Aug <sup>a</sup>												
	6-Aug <sup>a</sup>												
	7-Aug <sup>a</sup>												
	8-Aug <sup>a</sup>												
	9-Aug <sup>a</sup>												
	10-Aug <sup>a</sup>												
	11-Aug <sup>a</sup>												
	12-Aug <sup>a</sup>												
Total		23	132	1	5	68,196	299,174	22	138	22,780	67,388	1,630	13,358
Average weight (lb)					5.20		4.39		6.27		2.96		8.20

*Note:* Harvest does not include fish set aside for personal use or fish harvested in cost recovery fisheries.

<sup>a</sup> Confidential.

Appendix H5.—Estimated contribution to the commercial harvest from the Spiridon Lake sockeye salmon enhancement project by locality in the Kodiak Management Area, 2020.

	Actual	Estimated	
	Telrod Cove and Spiridon Bay Section	Southwest Afognak Section and NW Kodiak District	Westside total
Cost recovery	0	0	0
Common property	70,857	62,758	133,615
Total harvest	70,857	62,758	133,615
Percent	53%	47%	100%



## **APPENDIX I. EASTSIDE KODIAK FISHERY SUMMARY**

## INTRODUCTION

The goal of the *Eastside Kodiak Salmon Management Plan* is to achieve escapement and harvest objectives for sockeye, pink, chum, and coho salmon returning to spawning streams in the Northeast Kodiak and Eastside Kodiak Districts. This plan details the key species and targeted stocks that are managed in each of these sections throughout the fishing season (5 AAC 18.367).

For the Northeast Kodiak District (Appendix I2), all sections are to remain closed to commercial salmon fishing until July 6, when the pink salmon fishery begins for most of the Kodiak Management Area (Jackson 2020). Fishing opportunities through August 24 are based on the abundance of local and mixed pink and chum salmon, except fishing could be allowed in the Buskin River Section from July 6 to July 15 based on local pink salmon and Buskin River sockeye salmon. From August 25 to September 5, fishing periods are based on the abundance of local pink and coho salmon, and after September 5, on local coho salmon.

For most of the Eastside Kodiak District in 2020 (Appendix I3), not more than two 33-hour fishing periods could occur between June 14 and July 5 to harvest local and migrating sockeye salmon. The Inner Ugak Bay Section could not open for more than two 33-hour fishing periods between June 14 and June 21. From June 22 to July 5, fishing opportunities are based on sockeye salmon bound to either the Pasagshak River in Outer Ugak Bay Section or the Saltery River in Inner Ugak Bay Section. From July 6 to August 24, fishing opportunities in all sections are based on the abundance of local and mixed pink and chum salmon, except in Inner Ugak Bay Section, Saltery Lake sockeye salmon escapement must be considered through July 31. From August 25 to September 5, fishing periods are based on the abundance of local pink, chum, and coho salmon, and after September 5, on local coho salmon abundance (5 AAC 18.367).

Within the Buskin River Section of the Northeast Kodiak District, the Buskin Lake system produces a significant run of sockeye salmon that is targeted by a large number of subsistence fishers. A weir is operated on the Buskin River to enumerate escapement. Within the Inner Ugak Bay Section of the Eastside Kodiak District, the Saltery Lake system produces a significant run of sockeye salmon. A weir is operated on this stream by Kodiak Regional Aquaculture Association and ADF&G to enumerate sockeye salmon. Additionally, ADF&G operates a weir on the Pasagshak River to enumerate sockeye salmon that are targeted by subsistence fishers and sport anglers. Other minor sockeye salmon systems are present in the Eastside Kodiak District, including Lake Miam and Ocean Beach.

### 2020 Eastside Kodiak Fisheries

The Saltery River sockeye salmon run was moderate with a cumulative escapement past Saltery weir of 22,637 fish (Fuerst 2021), which is within the desired escapement goal range of 15,000 to 35,000 fish (Jackson 2020). There were only two 33-hour fishing periods (June 14 and June 21) in the Inner Ugak Bay Section in June and July due to low escapements of Saltery sockeye salmon. After the transition to pink, chum, and coho salmon management, weekly fishing periods were allowed from August 14 until October 2. (Appendix B1).

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The Buskin River sockeye salmon run was moderate in the 2020 season, which allowed for 4 commercial salmon fishing periods during July in the Buskin River Section, although no fishing effort was present during that timeframe. A total of 7,741 sockeye salmon passed above the Buskin River weir (Fuerst 2021), which was within the escapement goal range of 5,000 to 8,000 fish (McKinley et al. 2019).

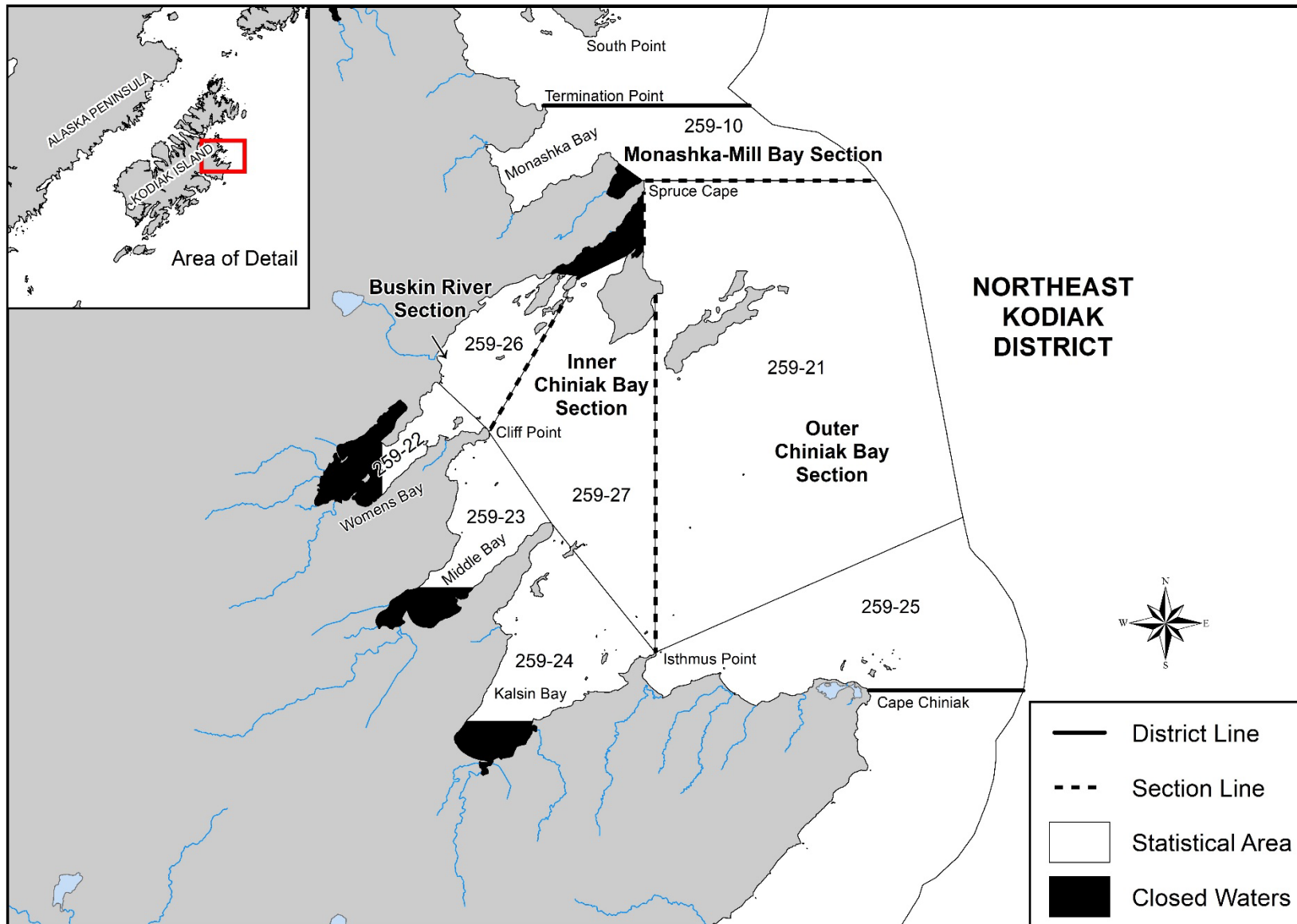
For the Pasagshak River, peak aerial surveys were used to establish the escapement goal. The peak aerial survey for sockeye salmon was 1,000 fish in 2020 although the Pasagshak River weir counted 3,922 sockeye which met the lower-bound SEG of 3,000 fish (McKinley et al. 2019).

The total commercial harvest for the Eastside Kodiak management units by 71 permit holders included 2,688 Chinook, 74,211 sockeye, 60,439 coho, 740,568 pink, and 182,772 chum salmon (Appendix I4). The last day of commercial salmon harvest in the Eastside Kodiak District was September 22.

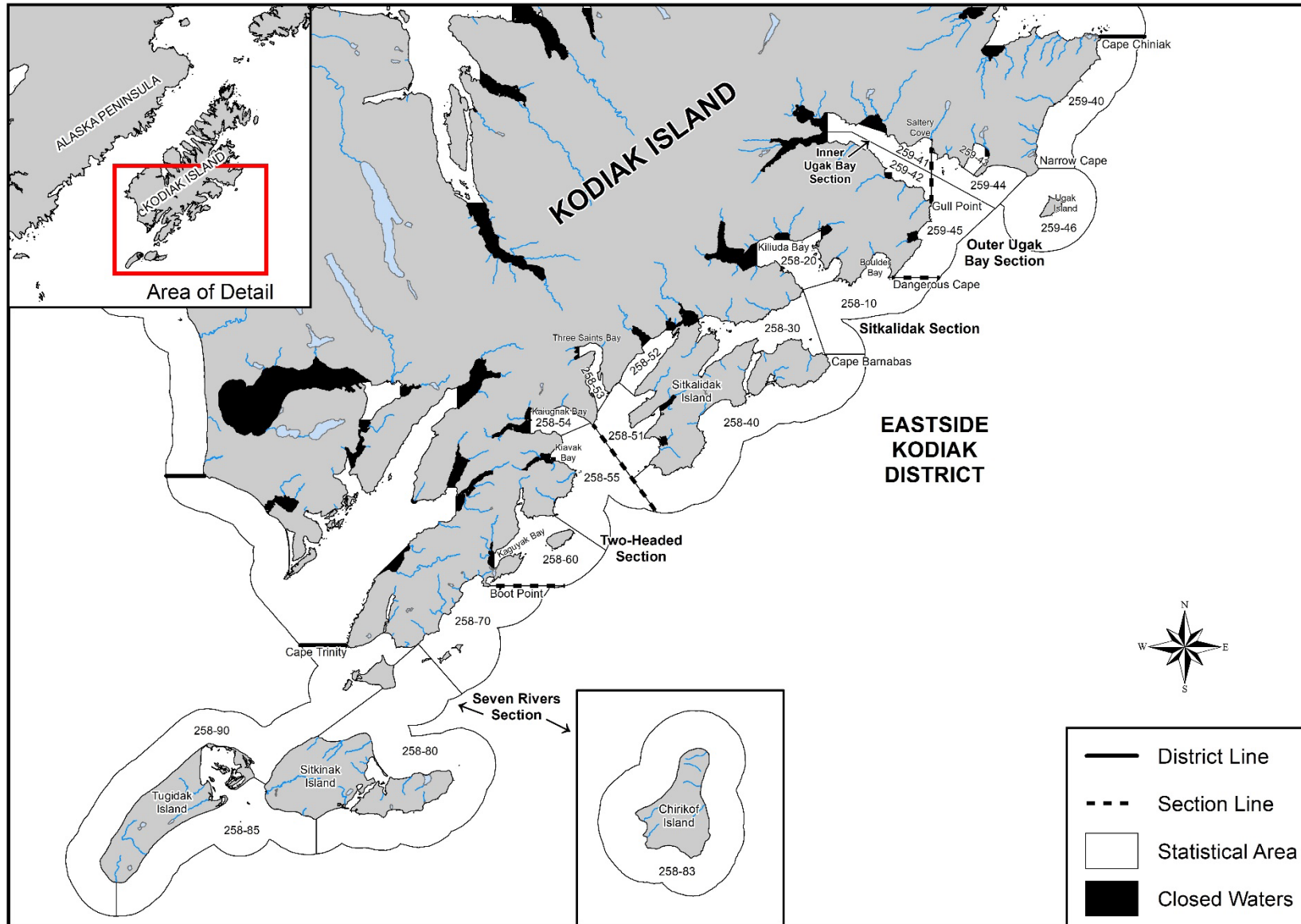
## REFERENCES CITED

- Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21-04, Kodiak.
- Jackson, J. 2020. Kodiak management area harvest strategy for the 2020 commercial salmon fishery. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K20-08, Kodiak.
- McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.

Appendix I2.—Map of the Northeast Kodiak District commercial salmon fishing sections and statistical areas.



Appendix I3.—Map of the Eastside Kodiak District commercial salmon fishing sections and statistical areas.



Appendix I4.—Daily commercial salmon harvest by species for the Eastside Kodiak Management Plan units, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Eastside Kodiak District	14-Jun	13	14	139	588	7,878	33,642	61	245	1,761	4,881	36,694	270,034
	15-Jun <sup>a</sup>												
	21-Jun	27	27	477	1,703	12,698	49,324	142	592	5,295	15,059	51,797	361,401
	22-Jun <sup>a</sup>												
	6-Jul	17	17	622	2,016	14,777	61,718	4,845	23,360	13,451	43,038	36,449	210,410
	7-Jul	4	4	20	83	2,152	9,424	230	1,356	2,595	7,499	2,427	17,559
	8-Jul	23	23	1,031	3,684	10,886	46,987	7,513	39,223	25,378	77,008	31,951	181,691
	9-Jul	6	6	23	63	3,660	15,292	1,699	9,612	9,227	21,131	6,458	35,162
	13-Jul	18	18	253	848	10,853	52,215	3,393	19,438	42,290	146,132	5,435	33,227
	14-Jul	4	4	70	242	2,857	11,074	467	3,306	9,114	29,267	735	4,452
	15-Jul	11	11	9	56	1,460	7,328	187	1,150	11,774	38,473	449	3,210
	16-Jul <sup>a</sup>												
	20-Jul	5	6	32	161	1,730	8,142	1,030	6,629	23,695	72,262	216	1,809
	22-Jul	5	6	4	40	1,712	7,210	877	5,311	25,552	82,641	475	3,529
	23-Jul <sup>a</sup>												
	5-Aug	7	9	0	0	71	287	8	56	57,512	209,495	24	104
	6-Aug <sup>a</sup>												
	7-Aug <sup>a</sup>												
	11-Aug	5	5	0	0	31	159	1	7	33,094	115,815	8	63
	12-Aug	4	4	0	0	131	656	40	314	20,060	100,307	14	117
	14-Aug	7	7	1	15	730	3,638	1,150	7,577	70,734	236,729	524	3,463
	15-Aug	6	7	0	0	264	1,216	622	3,899	64,172	215,683	948	6,713
	16-Aug	12	12	0	0	329	1,616	638	5,082	79,638	265,679	160	1,065
	17-Aug	5	5	0	0	52	291	51	415	17,166	57,863	15	118
	18-Aug <sup>a</sup>												
	19-Aug	6	6	0	0	275	1,404	875	7,073	50,637	160,481	103	653
	20-Aug	6	6	0	0	185	996	932	7,026	27,144	93,913	543	3,879
	21-Aug	4	4	0	0	81	438	655	4,225	12,061	47,081	121	710
	22-Aug	5	10	0	0	278	1,587	2,799	25,836	45,631	177,550	748	5,724

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Eastside Kodiak District (continued)	27-Aug	5	5	0	0	110	599	2075	20187.2	19,499	65,956	217	1,626
	29-Aug <sup>a</sup>												
	1-Sep	4	4	0	0	101	412	4548	39787	1,464	4,518	295	1,738
	3-Sep	3	3	0	0	35	185	2180	20,026	304	1,312	815	6,502
	8-Sep	3	3	0	0	8	36	4516	37972	36	97	393	2,356
	9-Sep	3	3	0	0	8	26	4418	36,359	7	22	27	134
	10-Sep <sup>a</sup>												
	11-Sep <sup>a</sup>												
	15-Sep <sup>a</sup>	5	5	0	0	78	311	5292	48,377	2	6	49	327
	16-Sep <sup>a</sup>												
	17-Sep	4	4	0	0	5	17	1,219	10,379	0	0	12	67
	18-Sep <sup>a</sup>												
	22-Sep <sup>a</sup>												
Total		68	256	2,684	9,525	73,885	318,332	56,444	417,957	714,944	2,451,339	181,715	1,181,963
Average weight (lb)					3.55		4.31		7.40		3.43		6.50
Northeast Kodiak District	8-Jul <sup>a</sup>												
	14-Aug <sup>a</sup>												
	16-Aug <sup>a</sup>												
	22-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
	24-Aug <sup>a</sup>												
	27-Aug <sup>a</sup>												
	28-Aug <sup>a</sup>												
	2-Sep <sup>a</sup>												

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Appendix I4.—Page 3 of 3.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northeast Kodiak District	4-Sep	3	3	0	0	3	14	521	4209	616	1919	3	24
(continued)	5-Sep <sup>a</sup>												
	8-Sep	3	3	0	0	13	40	48	384	213	592	46	325
	11-Sep <sup>a</sup>												
	16-Sep <sup>a</sup>												
Total		11	18	4	98	326	1,445	3,995	20,289	25,624	82,619	1,057	6,374
Average weight (lb)					0.00		4.43		5.08		3.22		6.03
Eastside Management Plan													
Total		71	274	2,688	9,623	74,211	319,777	60,439	438,246	740,568	2,533,958	182,772	1,188,337
Average weight (lb)					3.58		4.31		7.25		3.42		6.50

<sup>a</sup> Confidential.



## **APPENDIX J. NORTH AFOGNAK/SHUYAK FISHERY SUMMARY**

## INTRODUCTION

In November of 1995, the Board of Fisheries adopted the *North Afognak/Shuyak Island Salmon Management Plan* into regulation (5 AAC 18.368). This plan governs all commercial salmon fisheries on the north end of the Kodiak Archipelago. Although no comprehensive regulatory management plan was in effect prior to that date, the commercial fisheries of the area had followed a framework developed by fishery managers in the early 1970s, with the harvest strategy remaining nearly unchanged after 1987. The goal of this plan is to achieve escapement and harvest objectives for sockeye, pink, and coho salmon returning to spawning systems located in the Northeast Afognak, Perenosa Bay, Pauls Bay, Shuyak Island, and Northwest Afognak Sections of the Afognak District (Appendix J2). This plan details the key species and targeted stocks that are managed in each of these sections throughout the fishing season. This plan went into effect during the 1996 season and was most recently modified in 2005.

For the Northeast Afognak and Shuyak Island Sections, commercial salmon fishing was to remain closed until July 6 when the general pink salmon fishery began for most of the Kodiak Management Area (KMA). Fishing opportunities in the Northeast Afognak Section were based on the abundance of local and migrating pink salmon through August 24, local pink and coho salmon from August 25 to September 5, and local coho salmon after September 5. Fishing opportunities in the Shuyak Island Section were to be based on the abundance of local and mixed pink salmon through August 1, then on local coho salmon through the end of the season. From July 6 through August 1, the Shuyak Island Section was also managed in accordance with the *North Shelikof Strait Sockeye Salmon Management Plan* (5 AAC 18.363).

For the Perenosa Bay Section, from June 1 to July 5, fishing opportunities were based on sockeye salmon returning to the Pauls Bay and Portage Lake systems. Additional fishing time could be allowed to harvest enhanced sockeye salmon bound for the Little Waterfall system, but only inside the Waterfall Bay Special Harvest Area (WBSHA). From July 6 to July 20, management for the Perenosa Bay Section was based on local and migrating Kodiak pink salmon, and sockeye salmon migrating to Pauls and Portage Lakes. From July 21 to August 20, management was based on the abundance of local and migrating pink salmon, from August 21 to September 5, on local pink and coho salmon, and after September 5, on the abundance of local coho salmon.

For the Northwest Afognak Section, from June 1 to July 5, fishing opportunities were based on sockeye salmon bound to the minor systems at Thorsheim Lake and Long Lagoon, although there could be no more than two 33-hour fishing periods. Additional fishing time could be allowed to harvest enhanced sockeye salmon bound for the Hidden Lake system, but only in the Foul Bay Special Harvest Area (FBSHA). From July 6 to August 24, management was based on the abundance of local and mixed pink salmon, and after August 24, fishing periods were based on the abundance of local coho salmon. Additional fishing time may be allowed to harvest enhanced coho salmon bound for the Hidden Lake System, but only in the FBSHA. From July 6 through August 1, the Northwest Afognak Section was also managed in accordance with the *North Shelikof Strait Sockeye Salmon Management Plan* (5 AAC 18.363).

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For the Pauls Bay Section, from June 1 to July 5, fishing opportunities were based on sockeye salmon returning to Pauls Lake. From July 6 to August 1, management of the Pauls Bay Section was based on local and mixed pink and sockeye salmon bound for Pauls Lake. After August 1, management was based on the abundance of local coho salmon.

### **2020 North Afognak/Shuyak Island Fisheries**

In 2020, the first commercial salmon fishing period for the North Afognak/Shuyak Island management units began June 9 and was limited initially to the FBSHA and WBSHA. Within the FBSHA, harvests were confidential because less than 3 vessels participated in 2020 (Appendix J3). WBSHA had no harvest effort in 2020 (Appendix J3).

The Northwest Afognak, Pauls Bay, and Perenosa Bay Sections opened on June 14 and June 21 for two 33-hour periods in order to test the strength of local Afognak sockeye salmon runs. Sockeye salmon harvests were moderate during this time period (Appendix J3). The Pauls Bay weir at the outlet of Pauls Lake was not in operation during the 2020 season (Fuerst 2021).

In July, the Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay, and Northeast Afognak sections opened during all KMA general pink salmon fishing periods due to adequate sockeye and pink salmon escapement.

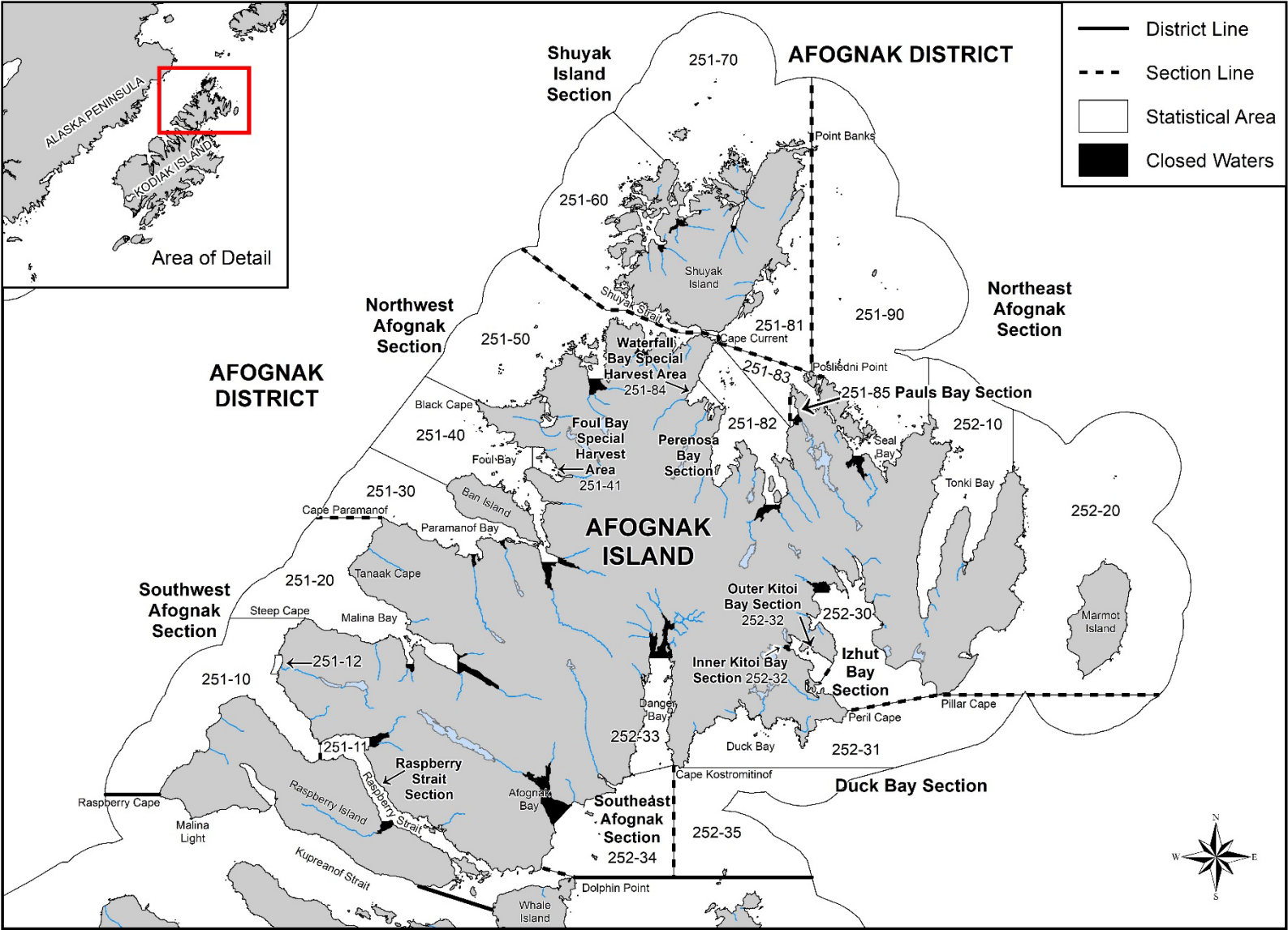
Within the Pauls Bay Section, a total of 9 permit holders harvested 6 Chinook, 6,415 sockeye, 533 coho, 3,694 pink, and 50 chum salmon (Appendix J3). The last day of commercial salmon harvest in the Pauls Bay Section was August 13.

The last landing in the North Afognak/Shuyak Island management units occurred on August 23. In all the units of the North Afognak/Shuyak fishery combined, 33 permit holders made 73 landings and harvested 16 Chinook, 17,144 sockeye, 10,363 coho, 369,134 pink, and 3,641 chum salmon (Appendix J3).

### **REFERENCES CITED**

Fuerst, B. A. 2021. Kodiak Management Area weir descriptions and salmon escapement report, 2020. Alaska Department of Fish and Game, Division of Commercial Fisheries, Regional Information Report No. 4K21-04, Kodiak.

Appendix J2.—Map of the Afognak District within the Kodiak Management Area.



Appendix J3.—Daily salmon harvest by species for the North Afognak/Shuyak Island management units, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northeast Afognak Section	20-Jul <sup>a</sup>												
	4-Aug <sup>a</sup>												
	6-Aug	3	3	0	0	336	1,347	969	5,503	44,950	147,461	61	275
	7-Aug <sup>a</sup>												
	8-Aug <sup>a</sup>												
	10-Aug <sup>a</sup>												
	11-Aug <sup>a</sup>												
	13-Aug <sup>a</sup>												
	14-Aug <sup>a</sup>												
	15-Aug <sup>a</sup>												
	17-Aug <sup>a</sup>												
	19-Aug <sup>a</sup>												
	20-Aug <sup>a</sup>												
	21-Aug <sup>a</sup>												
	22-Aug <sup>a</sup>												
	24-Aug <sup>a</sup>												
Total		7	18	1	4	921	4,149	5,140	32,905	195,799	685,122	483	2,951
Average weight (lb)					4.00		4.50		6.40		3.50		6.11
Northwest Afognak Section (excluding Foul Bay SHA)	14-Jun <sup>a</sup>												
	21-Jun	5	5	6	12	1,567	4,381	0	0	10	24	249	2,028
	6-Jul	4	4	0	0	380	1,860	3	15	322	982	70	565
	8-Jul <sup>a</sup>												
	13-Jul <sup>a</sup>												
	15-Jul	3	3	0	0	4,000	15,510	470	3,084	12,760	43,721	1,829	12,646
	20-Jul	6	6	0	0	841	3,702	145	848	6,429	22,754	423	3,198
	22-Jul <sup>a</sup>												

-continued-

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest Afognak	29-Jul <sup>a</sup>												
Section	3-Aug <sup>a</sup>												
(excluding Foul Bay SHA)	4-Aug <sup>a</sup>												
(continued)	8-Aug <sup>a</sup>												
Total		21	27	7	20	8,410	33,148	929	6,095	40,852	150,586	2,977	21,366
Average weight (lb)					2.79		3.94		6.56		3.69		7.18
Foul Bay Special	9-Jun <sup>a</sup>												
Harvest Area	11-Jun <sup>a</sup>												
	14-Jun <sup>a</sup>												
	30-Jun <sup>a</sup>												
Total <sup>a</sup>		2	4	0	0	1,307	3,547	0	0	0	0	0	0
Average weight (lb)					0.00		2.71		0.00		0.00		0.00
Pauls Bay	14-Jun <sup>a</sup>												
Section	21-Jun	5	5	0	0	3,149	10,200	0	0	4	13	19	150
	6-Aug <sup>a</sup>												
	11-Aug <sup>a</sup>												
	13-Aug <sup>a</sup>												
Total		9	10	6	33	6,415	20,187	533	3,350	3,694	11,318	50	370
Average weight (lb)					5.50		3.15		6.29		3.06		7.39

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Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Perenosa Bay Section	5-Aug <sup>a</sup>												
(Excluding Waterfall Bay)	9-Aug <sup>a</sup>												
	11-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
Total		3	5	0	0	62	311	2,522	21,218	39,683	121,815	131	1,196
Average weight (lb)					0.00		5.02		8.41		3.07		9.13
Waterfall Bay Special Harvest Area													
Total		0	0	0	0	0	0	0	0	0	0	0	0
Average weight (lb)					0.00		0.00		0.00		0.00		0.00
Shuyak Island	29-Jul <sup>a</sup>												
Section	30-Jul <sup>a</sup>												
	31-Jul <sup>a</sup>												
	4-Aug <sup>a</sup>												
	17-Aug <sup>a</sup>												
	22-Aug <sup>a</sup>												
Total <sup>a</sup>													
Average weight (lb)													
Grand total		33	73	16	78	17,144	61,484	10,363	73,456	369,134	1,245,545	3,641	25,883
Average weight (lb)					4.84		3.59		7.09		3.37		7.11

<sup>a</sup> Confidential.





## **APPENDIX K. MAINLAND DISTRICT FISHERY SUMMARY**

## INTRODUCTION

The Mainland District of the Kodiak Management Area (KMA; Appendix K2) is covered under 3 separate regulatory management plans, 2 of which are strictly allocative plans allowing the harvest of sockeye salmon considered to be nonlocal. The *Cape Igvak Salmon Management Plan* (CISMP; 5 AAC 18.360) covers the southernmost sections of the Mainland District from June 5 through July 5 and limits the harvest of sockeye salmon considered by regulation to be Chignik-bound. The *North Shelikof Strait Sockeye Salmon Management Plan* (NSSSSMP; 5 AAC 18.363) covers the majority of the sections of the Mainland District from July 6 through August 1 and limits the harvest of sockeye salmon due to concern for interception of Cook Inlet-bound fish. The *Mainland District Salmon Management Plan* (MDSMP), while recognizing these other plans, sets forth the key species and targeted stocks that are managed for in each section throughout the entire fishing season (5 AAC 18.369).

MDSMP stipulates that commercial salmon fisheries in the majority of the Mainland District remain closed until July 6, when the general pink salmon fishery begins for most of the KMA. The exceptions are the Cape Igvak Section (managed based on the strength of the Chignik sockeye salmon run through July 5) and two 33-hour fisheries in June targeting local sockeye salmon runs (Swikshak River sockeye salmon in the Big River Section, and Kafil Lake sockeye salmon in the Outer Kukak Bay Section; Appendix K2). From July 6 to August 1, weekly fishing periods could not exceed 57 hours and fishing opportunities are based on the abundance of local and mixed stocks of pink and chum salmon. From August 2 to the end of the season, fishing periods are based on the abundance of local pink, chum, and coho salmon.

### 2020 Mainland District Fisheries

On June 14 and June 21, there were two 33-hour fishing periods in the Big River and Outer Kukak Bay Sections to allow harvest of Kafil and Swikshak systems sockeye salmon. During the pink salmon season through August 1, the entire Mainland District was opened for four 57-hour fishing periods between July 6 and July 29 (with most sections managed under the NSSSSMP).

Pink and chum salmon runs were moderate to high in the mid- and north-Mainland District sections in 2020 but below average to in the southern sections. After the fourth 57-hour pink salmon opener, which began on July 27, the Mainland District from Cape Kekernoi in the Alinchak Section northward opened for 4 separate fishing periods in August while the sections southward of Cape Kekernois remained closed for the month. The estimated pink salmon escapement of 1,484,000 fish was above the escapement goal range of 250,000 to 1,000,000 fish (McKinley et al. 2019).

During 2020, the total commercial harvest by 32 permit holders in the Mainland District included 949 Chinook, 118,307 sockeye, 27,430 coho, 973,486 pink, and 20,413 chum salmon (Appendix K3). This includes all salmon harvested along the Mainland, including those harvested under the direction of CISMP and NSSSSMP.

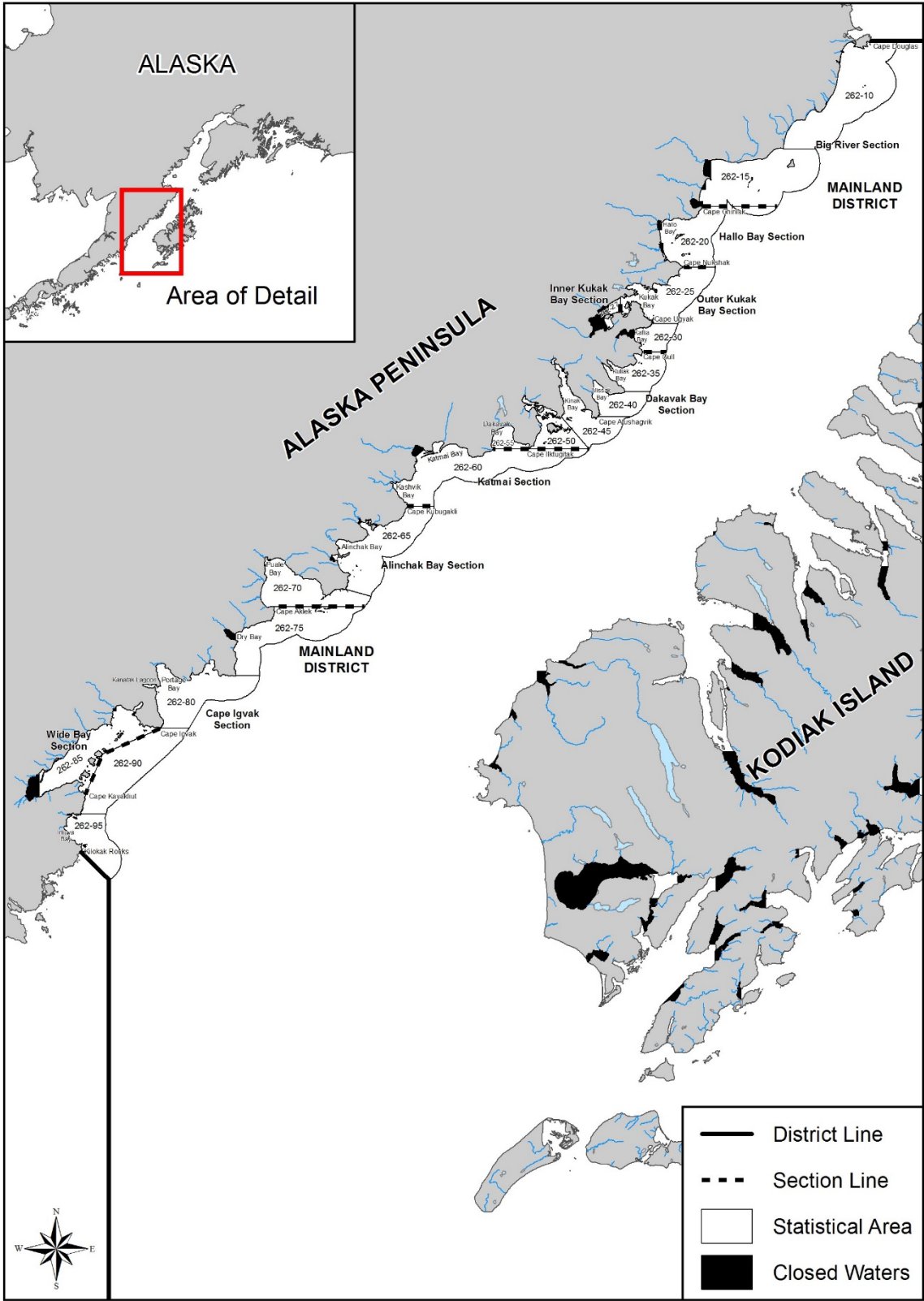
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## **REFERENCES CITED**

McKinley, T. R., K. L. Schaberg, M. J. Witteveen, M. B. Foster, M. L. Wattum, and T. L. Vincent. 2019. Review of salmon escapement goals in the Kodiak Management Area, 2019. Alaska Department of Fish and Game, Fishery Manuscript No. 19-07, Anchorage.

Appendix K2.—Map of the Mainland District commercial salmon fishing sections and statistical areas.



Appendix K3.–Daily commercial salmon harvest, by species, for the Mainland District Management Plan units, 2020.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Big River Section	3-Aug <sup>a</sup>												
Total <sup>a</sup>													
Average weight (lb)													
Hallo Bay Section	27-Jul <sup>a</sup>												
	28-Jul <sup>a</sup>												
	3-Aug <sup>a</sup>												
	12-Aug <sup>a</sup>												
Total <sup>a</sup>													
Average weight (lb)													
Outer Kukak Bay Section													
Total <sup>a</sup>													
Average weight (lb)													
Inner Kukak Bay Section													
Total		0	0	0	0	0	0	0	0	0	0	0	0
Average weight (lb)					0.00		0.00		0.00		0.00		0.00
Dakavak Bay Section	6-Jul <sup>a</sup>												
	7-Jul <sup>a</sup>												
	8-Jul <sup>a</sup>												
	13-Jul	12	12	276	1,463	16,092	61,778	236	2,078	10,218	33,854	2,253	17,497
	15-Jul												
	20-Jul	6	7	123	1,146	9,334	49,220	458	3,286	33,373	108,287	995	7,561
	21-Jul	5	6	10	45	9,726	44,136	450	2,841	20,626	70,055	1,175	7,930
	22-Jul	4	4	8	53	4,714	18,948	517	2,980	12,503	42,708	593	4,589

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Appendix K3.–Page 2 of 3.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Dakavak Bay	27-Jul	8	8	52	553	27,133	116,057	1,850	12,326	48,150	138,957	1,390	10,540
Section	28-Jul	3	3	39	283	3,271	16,089	383	2,390	10,165	34,828	183	1,475
(continued)	29-Jul	4	4	174	946	3,015	14,606	475	2,894	9,492	36,002	214	1,484
	3-Aug	7	8	1	15	16,391	66,417	2,425	17,924	69,979	183,330	1,371	9,260
	4-Aug <sup>a</sup>												
	5-Aug <sup>a</sup>												
	16-Aug <sup>a</sup>												
	22-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
	24-Aug <sup>a</sup>												
	27-Aug <sup>a</sup>												
	29-Aug <sup>a</sup>												
Total		21	69	797	5,254	103,223	454,456	26,188	137,769	257,821	788,451	9,475	69,904
Average weight (lb)					6.59		4.40		5.26		3.06		7.38
Katmai	8-Jul <sup>a</sup>												
Section	13-Jul	3	3	0	0	5,018	19,314	37	314	1,692	5,243	357	2,931
	20-Jul <sup>a</sup>												
	23-Aug <sup>a</sup>												
	24-Aug <sup>a</sup>												
Total		5	7	1	4	8,397	33,511	502	2,803	10,260	30,608	713	5,109
Average weight (lb)					4.00		3.99		5.58		2.98		7.16
Alinchak	7-Jul <sup>a</sup>												
Bay Section	20-Jul <sup>a</sup>												
	27-Jul <sup>a</sup>												
	28-Jul <sup>a</sup>												
	3-Aug <sup>a</sup>												
	4-Aug	3	3	0	0	0	0	0	0	64,805	240,016	94	934
	5-Aug	4	4	0	0	183	788	6	22	70,053	182,364	473	2,770

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Appendix K3.–Page 3 of 3.

Management unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alinchak	11-Aug	3	3	0	0	0	0	0	0	26,052	87,640	383	2,493
Bay Section (continued)	16-Aug <sup>a</sup>												
	17-Aug <sup>a</sup>												
	18-Aug	5	6	0	0	8	32	17	142	97,688	276,785	858	6,070
	19-Aug	3	4	0	0	26	145	1	8	52,082	169,516	644	4,497
	20-Aug <sup>a</sup>												
	21-Aug <sup>a</sup>												
	23-Aug <sup>a</sup>												
	27-Aug <sup>a</sup>												
	28-Aug <sup>a</sup>												
Total		7	40	51	191	2,361	10,714	356	2,483	624,199	1,973,502	8,424	57,531
Average weight (lb)					3.74		4.54		6.97		3.16		6.83
Cape Igvak Section	6-Jul	10	10	100	503	1,997	9,656	90	540	1,466	4,989	1,039	7,067
	8-Jul <sup>a</sup>												
	13-Jul <sup>a</sup>												
	21-Jul <sup>a</sup>												
Total		10	13	100	503	4,000	16,955	337	2,084	7,181	19,808	1,704	12,504
Average weight (lb)					5.03		4.24		6.18		2.76		7.34
Mainland District													
Total		32	135	949	5,952	118,307	516,696	27,430	145,420	973,486	3,072,545	20,413	145,831
Average weight (lb)					6.27		4.37		5.30		3.16		7.14

<sup>a</sup> Confidential.





## **APPENDIX L. AREAWIDE HARVEST TABLES**

Appendix L1.—Commercial salmon harvest, by management unit and statistical week, all gear combined, in the Kodiak Management Area, 2020.

Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
SW Afognak & Raspberry Straits (combined) (251-10, 11, 12, 20)	28	11-Jul	20	209	10.5	1,582	7,586	4.8	165	1,316	8.0	3,942	11,378	2.9	1,226	10,656	8.7
	29	18-Jul	242	975	4.0	6,882	31,452	4.6	2,273	16,947	7.5	46,444	163,123	3.5	3,848	26,086	6.8
	30	25-Jul	115	878	7.6	3,343	17,965	5.4	1,759	12,885	7.3	36,429	135,419	3.7	1,831	11,876	6.5
	31	1-Aug	103	475	4.6	8,092	31,374	3.9	2,206	14,574	6.6	139,330	483,760	3.5	1,996	14,991	7.5
	32	8-Aug	70	506	7.2	2,528	13,211	5.2	1,282	9,397	7.3	78,904	281,844	3.6	504	3,609	7.2
	33	15-Aug	447	2,565	5.7	3,077	13,015	4.2	3,259	25,615	7.9	109,333	384,498	3.5	480	3,488	7.3
	34	22-Aug	85	427	5.0	831	3,824	4.6	1,816	13,354	7.4	64,753	224,600	3.5	318	2,248	7.1
	35	29-Aug	78	382	4.9	178	739	4.1	180	1,279	7.1	2,564	8,786	3.4	6	30	5.0
	36	5-Sep	0	0	0.0	569	2,292	4.0	470	4,159	8.8	1,071	3,942	3.7	42	291	6.9
Total			1,160	6,417	5.5	27,082	121,456	4.5	13,410	99,526	7.4	482,770	1,697,349	3.5	10,251	73,275	7.1
N.W. Afognak (251-30, 40, 41, 50)	24	13-Jun	0	0	0.0	993	2,560	2.6	0	0	0.0	0	0	0.0	0	0	0.0
	25	20-Jun	0	0	0.0	482	1,587	3.3	0	0	0.0	2	7	3.5	21	109	5.2
	26	27-Jun	6	12	2.0	1,567	4,381	2.8	0	0	0.0	10	24	2.4	249	2,028	8.1
	27	4-Jul	0	0	0.0	100	300	3.0	0	0	0.0	0	0	0.0	0	0	0.0
	28	11-Jul	0	0	0.0	617	2,890	4.7	22	128	5.8	1,152	3,172	2.8	205	1,638	8.0
	29	18-Jul	0	0	0.0	4,075	15,808	3.9	473	3,103	6.6	13,327	45,704	3.4	1,890	13,074	6.9
	30	25-Jul	0	0	0.0	1,323	6,590	5.0	238	1,555	6.5	9,227	32,547	3.5	510	3,880	7.6
	31	1-Aug	0	0	0.0	37	169	4.6	25	148	5.9	685	2,932	4.3	25	124	5.0
	32	8-Aug	1	8	7.5	523	2,412	4.6	171	1,162	6.8	16,449	66,200	4.0	77	514	6.7
Total			7	20	2.8	9,717	36,695	3.8	929	6,095	6.6	40,852	150,586	3.7	2,977	21,366	7.2
Shuyak (251-60, 70, 81)	31	1-Aug	0	0	0.0	0	0	0.0	0	0	0.0	54,400	178,747	3.3	0	0	0.0
	32	8-Aug	0	0	0.0	0	0	0.0	258	1,660	6.4	13,316	44,643	3.4	0	0	0.0
	34	22-Aug	2	21	10.5	29	142	4.9	981	8,228	8.4	21,390	53,314	2.5	0	0	0.0
Total			2	21	10.5	29	142	4.9	1,239	9,888	8.0	89,106	276,704	3.1	0	0	0.0

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## Appendix L1.–Page 2 of 13.

Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Statistical area)	week	ending	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Perenosa Bay																	
(251-82, 83, 84, 85)	25	20-Jun	0	0	0.0	3,209	9,761	3.0	0	0	0.0	0	0	0.0	7	64	9.1
	26	27-Jun	0	0	0.0	3,149	10,200	3.2	0	0	0.0	4	13	3.3	19	150	7.9
	32	8-Aug	0	0	0.0	28	110	3.9	201	1,664	8.3	2,364	8,031	3.4	2	8	3.9
	33	15-Aug	6	33	5.5	91	427	4.7	2,807	22,569	8.0	32,433	99,361	3.1	153	1,344	8.8
	35	29-Aug	0	0	0.0	0	0	0.0	47	335	7.1	8,576	25,728	3.0	0	0	0.0
Total			6	33	5.5	6,477	20,498	3.2	3,055	24,568	8.0	43,377	133,133	3.1	181	1,566	8.7
N.E. Afognak																	
(251-90, 252-10 & 20)	30	25-Jul	0	0	0.0	15	91	6.1	1	10	9.8	635	2,159	3.4	60	417	6.9
	32	8-Aug	0	0	0.0	424	1,779	4.2	1,596	8,736	5.5	76,735	256,869	3.3	245	1,545	6.3
	33	15-Aug	1	4	4.0	303	1,489	4.9	1,549	10,862	7.0	72,482	265,964	3.7	147	811	5.5
	34	22-Aug	0	0	0.0	151	646	4.3	1,576	10,365	6.6	39,131	135,930	3.5	21	118	5.6
	35	29-Aug	0	0	0.0	28	144	5.1	418	2,932	7.0	6,816	24,200	3.6	10	60	6.0
Total			1	4	4.0	921	4,149	4.5	5,140	32,905	6.4	195,799	685,122	3.5	483	2,951	6.1
Izhut																	
(252-30)	24	13-Jun	0	0	0.0	56	189	3.4	0	0	0.0	2	6	3	112	1,102	9.8
	25	20-Jun	0	0	0.0	154	508	3.3	0	0	0.0	0	0	0.0	380	2,623	6.9
	26	27-Jun	0	0	0.0	313	1,437	4.6	1	5	5.0	43	144	3	3,754	31,669	8.4
	27	4-Jul	1	2	2.0	381	1,598	4.2	7	41	5.9	54	167	3	3,079	19,422	6.3
	30	25-Jul	0	0	0.0	224	1,041	4.6	106	522	4.9	3,394	12,049	4	252	1,513	6.0
	31	1-Aug	2	20	10.0	1,571	6,190	3.9	940	5,892	6.3	112,988	376,713	3	1,937	10,638	5.5
	32	8-Aug	4	48	12.0	1,162	4,576	3.9	1,858	10,154	5.5	313,028	1,009,986	3	571	3,147	5.5
	33	15-Aug	0	0	0.0	1,191	4,973	4.2	6,943	42,207	6.1	579,416	2,045,999	4	285	1,623	5.7
	34	22-Aug	4	42	10.5	214	1,012	4.7	6,331	44,812	7.1	272,821	958,979	4	50	266	5.3
	35	29-Aug	1	7	7.0	748	3,204	4.3	32,700	253,284	7.7	407,193	1,410,869	3	40	251	6.3
	36	5-Sep	0	0	0.0	585	2,542	4.3	18,418	147,149	8.0	310,297	1,050,608	3	46	261	5.7
	37	12-Sep	0	0	0.0	27	126	4.7	1,341	11,226	8.4	16,090	56,073	3	0	0	0.0
	38	19-Sep	0	0	0.0	0	0	0.0	294	2,884	9.8	631	1,795	3	0	0	0.0
Total			12	119	9.9	6,626	27,394	4.1	68,939	518,175	7.5	2,015,957	6,923,387	3.4	10,506	72,513	6.9

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Appendix L1.–Page 3 of 13.

Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Kitoi Bay (252-32)	25	20-Jun	0	0	0.0	85	322	3.8	0	0	0.0	4	6	1.5	2,938	22,162	7.5
	31	1-Aug	0	0	0.0	610	2,367	3.9	290	1,876	6.5	49,040	147,402	3.0	2,742	13,750	5.0
	32	8-Aug	0	0	0.0	244	1,118	4.6	218	1,411	6.5	78,942	272,265	3.4	174	1,097	6.3
	33	15-Aug	0	0	0.0	90	319	3.5	418	2,594	6.2	63,053	217,153	3.4	29	117	4.0
	34	22-Aug	0	0	0.0	7	32	4.6	104	635	6.1	2,376	9,501	4.0	0	0	0.0
	36	5-Sep	0	0	0.0	15	70	4.7	3,570	25,829	7.2	40,111	150,777	3.8	0	0	0.0
	37	12-Sep	0	0	0.0	0	0	0.0	415	3,840	9.3	1,381	4,264	3.1	0	0	0.0
	Total		0	0	0.0	1,051	4,228	4.0	5,015	36,185	7.2	234,907	801,368	3.4	5,883	37,126	6.3
Duck Bay (252-31 & 35)	24	13-Jun	1	2	2.0	131	442	3.4	0	0	0.0	7	14	2.0	88	528	6.0
	25	20-Jun	1	18	18.0	744	2,394	3.2	3	8	2.7	76	231	3.0	354	2,165	6.1
	29	18-Jul	1	2	2.0	89	365	4.1	59	293	5.0	269	807	3.0	95	611	6.4
	30	25-Jul	6	50	8.3	1,588	6,525	4.1	1,304	8,708	6.7	29,782	107,331	3.6	1,152	7,380	6.4
	31	1-Aug	7	57	8.1	1,597	7,226	4.5	1,759	12,206	6.9	115,286	382,780	3.3	1,161	7,237	6.2
	32	8-Aug	11	163	14.8	1,551	7,680	5.0	5,004	31,805	6.4	470,099	1,725,990	3.7	707	4,871	6.9
	33	15-Aug	26	205	7.9	1,388	6,565	4.7	8,785	57,575	6.6	584,361	2,043,073	3.5	392	2,655	6.8
	34	22-Aug	69	464	6.7	2,314	10,215	4.4	18,430	129,195	7.0	688,361	2,449,991	3.6	422	2,391	5.7
	35	29-Aug	0	0	0.0	644	2,887	4.5	10,514	78,587	7.5	308,839	982,301	3.2	66	388	5.9
	36	5-Sep	0	0	0.0	248	970	3.9	3,956	31,581	8.0	91,823	294,396	3.2	26	131	5.0
	37	12-Sep	0	0	0.0	37	201	5.4	324	3,249	10.0	7,887	25,504	3.2	0	0	0.0
	Total		122	961	7.9	10,331	45,470	4.4	50,138	353,205	7.0	2,296,790	8,012,418	3.5	4,463	28,357	6.4

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
SE Afognak (252-33 and 34)	30	25-Jul	0	0	0.0	37	188	5.1	20	143	7.2	1,140	4,565	4.0	55	442	8.0
	32	8-Aug	6	111	18.5	492	2,289	4.7	845	5,145	6.1	114,280	396,801	3.5	165	1,116	6.8
	33	15-Aug	0	0	0.0	47	212	4.5	299	1,883	6.3	24,660	101,189	4.1	9	45	5.0
	34	22-Aug	0	0	0.0	274	1,234	4.5	5,056	35,305	7.0	190,212	709,610	3.7	136	814	6.0
	35	29-Aug	10	79	7.9	128	612	4.8	2,800	19,990	7.1	91,684	324,373	3.5	26	161	6.2
	37	12-Sep	0	0	0.0	0	0	0.0	6	51	8.4	128	339	2.6	0	0	0.0
Total			16	190	11.9	978	4,535	4.6	9,026	62,516	6.9	422,104	1,536,876	3.6	391	2,577	6.6
Central, Terror Bay, Inner Uganik, Spiridon, Zachar, and Uyak (combined) (253-11, 12, 13, 14, 31 32, 33, 34, 35; 254-10, 20, 21, 30, 31, 40, 41, 50)	24	13-Jun	41	172	4.2	16,985	69,827	4.1	1	5	5.0	103	305	3.0	1,266	8,527	6.7
	25	20-Jun	12	104	8.7	7,510	29,910	4.0	0	0	0.0	75	239	3.2	860	5,555	6.5
	26	27-Jun	0	0	0.0	3,497	14,911	4.3	0	0	0.0	21	65	3.1	32	249	7.8
	27	4-Jul	1	5	5.2	16,203	71,872	4.4	0	0	0.0	296	960	3.2	196	1,565	8.0
	28	11-Jul	242	1,476	6.1	41,894	195,537	4.7	515	3,003	5.8	33,468	103,543	3.1	11,313	86,864	7.7
	29	18-Jul	415	3,132	7.5	50,284	232,726	4.6	5,143	32,353	6.3	259,252	790,781	3.1	19,143	135,398	7.1
	30	25-Jul	279	2,040	7.3	39,092	180,607	4.6	7,101	47,565	6.7	435,609	1,499,898	3.4	22,472	162,294	7.2
	31	1-Aug	167	1,860	11.1	48,506	233,914	4.8	9,144	63,817	7.0	732,827	2,549,758	3.5	15,999	116,039	7.3
	32	8-Aug	372	3,083	8.3	70,838	331,921	4.7	13,619	89,362	6.6	1,386,964	4,778,044	3.4	13,040	93,944	7.2
	33	15-Aug	514	3,235	6.3	41,506	201,358	4.9	11,208	77,812	6.9	797,058	2,821,771	3.5	5,418	38,048	7.0
	34	22-Aug	554	3,440	6.2	33,134	159,015	4.8	15,383	111,415	7.2	494,568	1,673,046	3.4	2,049	14,335	7.0
	35	29-Aug	50	316	6.3	28,064	134,279	4.8	9,996	73,344	7.3	206,541	671,236	3.2	1,017	7,102	7.0
	36	5-Sep	3	30	10.0	36,782	171,581	4.7	15,325	122,740	8.0	39,369	130,751	3.3	451	3,127	6.9
	37	12-Sep	10	110	11.0	32,039	148,191	4.6	8,824	68,973	7.8	4,299	13,904	3.2	188	1,168	6.2
	38	19-Sep	22	173	7.9	10,336	46,597	4.5	2,169	17,227	7.9	294	885	3.0	25	150	6.0
Total			2,682	19,175	7.1	476,670	2,222,247	4.7	98,428	707,616	7.2	4,390,744	15,035,186	3.4	93,469	674,365	7.2

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
North Cape, Anton	24	13-Jun	1	2	2.0	463	1,891	4.1	0	0	0.0	11	26	2.4	110	729	6.6
Larsen, Sharatin, and	25	20-Jun	0	0	0.0	1,272	5,472	4.3	0	0	0.0	10	29	2.9	228	1,723	7.6
Kizhuyak (combined)	28	11-Jul	3	43	14.3	1,991	9,230	4.6	1,336	7,171	5.4	1,404	4,305	3.1	1,512	9,645	6.4
(259-30, 31, 32, 33, 34, 35, 36, 37, 38, 39)	29	18-Jul	2	24	12.0	3,135	14,037	4.5	1,469	8,182	5.6	15,367	47,294	3.1	980	7,271	7.4
	30	25-Jul	8	32	4.0	2,580	11,935	4.6	1,273	7,592	6.0	41,992	145,820	3.5	915	6,484	7.1
	31	1-Aug	0	0	0.0	1,335	5,847	4.4	763	4,346	5.7	51,807	165,005	3.2	1,028	7,207	7.0
	32	8-Aug	1	20	20.0	2,232	9,921	4.4	2,438	15,938	6.5	144,909	488,510	3.4	1,561	10,944	7.0
	33	15-Aug	2	33	16.5	641	2,873	4.5	1,398	8,456	6.0	46,096	149,687	3.2	665	4,640	7.0
	34	22-Aug	0	0	0.0	697	3,071	4.4	2,610	16,388	6.3	49,292	168,259	3.4	769	4,768	6.2
	35	29-Aug	0	0	0.0	652	2,222	3.4	2,090	13,998	6.7	65,477	160,118	2.4	179	1,084	6.1
	37	12-Sep	0	0	0.0	0	0	0.0	36	255	7.1	1	1	1.0	30	181	6.0
Total			17	154	9.1	14,998	66,497	4.4	13,413	82,326	6.1	416,366	1,329,053	3.2	7,977	54,674	6.9
Inner Karluk (255-10)	31	1-Aug	45	225	5.0	12,137	55,501	4.6	614	3,689	6.0	382,534	1,358,401	3.6	523	3,674	7.0
	33	15-Aug	29	122	4.2	31,706	145,201	4.6	2,162	14,574	6.7	804,935	2,877,830	3.6	1,001	6,404	6.4
	Total		74	347	4.7	43,843	200,702	4.6	2,776	18,262	6.6	1,187,469	4,236,231	3.6	1,524	10,077	6.6

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Section (Stat Area)	Statistical Week	Week Ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Outer Karluk (255-20)	28	11-Jul	8	30	3.8	1,969	9,179	4.7	37	222	6.0	4,610	13,707	3.0	712	5,957	8.4
	29	18-Jul	64	372	5.8	8,640	40,052	4.6	301	1,924	6.4	57,909	210,861	3.6	2,392	20,025	8.4
	30	25-Jul	51	411	8.1	5,282	21,883	4.1	429	2,683	6.3	56,884	158,957	2.8	870	6,754	7.8
	31	1-Aug	67	468	7.0	10,156	48,311	4.8	1,405	8,680	6.2	235,256	835,370	3.6	1,678	11,364	6.8
	32	8-Aug	33	284	8.6	29,328	127,344	4.3	2,447	16,604	6.8	644,202	2,209,955	3.4	1,679	11,657	6.9
	33	15-Aug	5	40	8.0	21,048	97,326	4.6	2,215	14,902	6.7	490,576	1,576,762	3.2	420	2,986	7.1
	34	22-Aug	0	0	0.0	18,804	91,195	4.8	4,137	29,102	7.0	275,052	949,416	3.5	203	1,349	6.6
	35	29-Aug	2	13	6.5	24,795	113,460	4.6	6,334	46,223	7.3	160,768	504,846	3.1	209	1,379	6.6
	36	5-Sep	0	0	0.0	4,877	22,021	4.5	1,429	11,710	8.2	2,382	7,730	3.2	22	147	6.7
	37	12-Sep	8	65	8.1	43,536	194,267	4.5	5,637	44,843	8.0	2,631	8,441	3.2	54	336	6.2
	38	19-Sep	2	16	8.0	18,197	82,281	4.5	1,901	15,220	8.0	291	940	3.2	36	211	5.9
	39	26-Sep	0	0	0.0	2,455	10,596	4.3	141	1,088	7.7	0	0	0.0	0	0	0.0
	40	3-Oct	6	25	4.2	817	4,087	5.0	35	243	6.9	0	0	0.0	1	9	9.0
	41	10-Oct	2	22	11.0	631	2,526	4.0	3	21	7.0	0	0	0.0	0	0	0.0
Total			248	1,746	7.0	190,535	864,529	4.5	26,451	193,464	7.3	1,930,561	6,476,984	3.4	8,276	62,173	7.5
Sturgeon (256-40)	31	1-Aug	33	370	11.2	20,712	97,416	4.7	912	6,157	6.8	858,210	3,060,318	3.6	1,248	8,515	6.8
	33	15-Aug	0	0	0.0	7,046	35,862	5.1	642	4,472	7.0	173,560	591,646	3.4	369	2,115	5.7
	Total		33	370	11.2	27,758	133,278	4.8	1,554	10,629	6.8	1,031,770	3,651,964	3.5	1,617	10,630	6.6
Halibut Bay (256-25 and 30)	30	25-Jul	27	219	8.1	7,851	28,425	3.6	385	2,200	5.7	50,030	137,884	2.8	245	1,993	8.1
	31	1-Aug	4	56	14.0	20,434	95,540	4.7	1,288	7,626	5.9	367,097	1,228,217	3.3	1,159	6,571	5.7
	33	15-Aug	6	59	9.8	12,404	58,823	4.7	1,704	11,093	6.5	258,574	865,468	3.3	238	1,237	5.2
	Total		37	334	9.0	40,689	182,788	4.5	3,377	20,919	6.2	675,701	2,231,569	3.3	1,642	9,801	6.0

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Inner & Outer	26	27-Jun	11	60	5.5	10,360	53,331	5.1	6	26	4.3	806	2,218	2.8	475	3,339	7.0
Ayakulik	27	4-Jul	119	687	5.8	30,818	134,543	4.4	55	338	6.1	5,634	16,750	3.0	931	6,697	7.2
(256-10, 15, 20)	28	11-Jul	6	39	6.5	4,576	19,779	4.3	21	111	5.3	3,899	14,733	3.8	219	1,566	7.2
	29	18-Jul	19	154	8.1	26,869	115,113	4.3	494	3,105	6.3	73,293	221,950	3.0	2,476	16,408	6.6
	30	25-Jul	4	19	4.8	10,172	43,520	4.3	113	777	6.9	103,863	365,920	3.5	661	4,316	6.5
	31	1-Aug	22	158	7.2	25,143	110,572	4.4	1,184	7,256	6.1	638,774	2,062,915	3.2	1,224	8,441	6.9
	32	8-Aug	1	8	7.5	17,928	85,974	4.8	581	3,540	6.1	701,540	2,419,778	3.4	176	1,165	6.6
	33	15-Aug	8	121	15.1	38,460	175,741	4.6	2,166	13,622	6.3	935,035	3,036,699	3.2	646	4,111	6.4
	34	22-Aug	0	0	0.0	27,575	133,336	4.8	4,053	28,491	7.0	451,041	1,499,471	3.3	217	1,480	6.8
	35	29-Aug	0	0	0.0	17,425	90,152	5.2	6,934	48,597	7.0	162,829	563,932	3.5	195	1,284	6.6
	36	5-Sep	0	0	0.0	5,208	25,669	4.9	2,086	16,282	7.8	19,700	63,287	3.2	59	370	6.3
	37	12-Sep	0	0	0.0	4,410	19,752	4.5	385	2,801	7.3	1,456	4,618	3.2	13	65	5.0
Total			190	1,245	6.6	218,944	1,007,482	4.6	18,078	124,944	6.9	3,097,870	10,272,272	3.3	7,292	49,242	6.8
Cape Alitak	26	27-Jun	1	8	8.0	5,224	21,569	4.1	0	0	0.0	236	653	2.8	177	1,261	7.1
(257-10 and 20)	27	4-Jul	1	11	11.0	5,858	26,835	4.6	13	70	5.4	409	1,300	3.2	153	1,316	8.6
	28	11-Jul	0	0	0.0	2,553	12,107	4.7	25	154	6.2	448	1,357	3.0	128	953	7.4
	29	18-Jul	28	353	12.6	9,121	41,336	4.5	47	298	6.3	9,985	29,951	3.0	282	2,027	7.2
	30	25-Jul	0	0	0.0	157	783	5.0	15	107	7.1	1,214	6,071	5.0	14	113	8.1
	31	1-Aug	6	111	18.5	4,860	22,458	4.6	26	162	6.2	46,564	167,187	3.6	197	1,394	7.1
	32	8-Aug	22	404	18.4	5,952	28,695	4.8	354	2,173	6.1	106,614	397,555	3.7	350	2,145	6.1
	33	15-Aug	0	0	0.0	7,829	39,967	5.1	1,156	7,201	6.2	87,341	298,820	3.4	445	2,977	6.7
	34	22-Aug	0	0	0.0	2,256	12,074	5.4	556	4,027	7.2	24,212	89,257	3.7	170	1,198	7.0
	35	29-Aug	0	0	0.0	17,453	92,638	5.3	9,046	69,430	7.7	68,007	268,994	4.0	250	1,733	6.9
	36	5-Sep	0	0	0.0	11,257	55,756	5.0	5,160	45,295	8.8	10,827	35,830	3.3	151	1,071	7.1
	37	12-Sep	0	0	0.0	10,383	51,094	4.9	2,412	17,934	7.4	1,700	5,150	3.0	88	526	6.0
	38	19-Sep	0	0	0.0	4,630	19,837	4.3	1,031	8,706	8.4	631	1,671	2.6	67	503	7.5
	39	26-Sep	0	0	0.0	690	3,670	5.3	106	777	7.3	30	92	3.1	10	56	5.6
Total			58	887	15.3	88,223	428,819	4.9	19,947	156,333	7.8	358,218	1,303,888	3.6	2,482	17,273	7.0

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Moser/Olga Bay & Dog Salmon Flats (257-30, 31, 40, 41, 42, 43)	26	27-Jun	0	0	0.0	4,830	20,463	4.2	0	0	0.0	2	7	3.5	20	163	8.2
	27	4-Jul	1	12	12.0	13,196	53,463	4.1	0	0	0.0	47	139	3.0	80	560	7.0
	28	11-Jul	0	0	0.0	15,848	65,755	4.1	11	62	5.6	427	1,416	3.3	229	1,765	7.7
	29	18-Jul	0	0	0.0	5,887	26,872	4.6	12	72	6.0	1,909	5,860	3.1	126	916	7.3
	30	25-Jul	0	0	0.0	6,553	30,166	4.6	21	148	7.0	10,687	37,257	3.5	414	2,378	5.7
	31	1-Aug	0	0	0.0	13,576	62,401	4.6	114	703	6.2	49,055	180,783	3.7	358	2,566	7.2
	32	8-Aug	0	0	0.0	12,734	58,987	4.6	196	1,317	6.7	89,121	344,375	3.9	375	2,586	6.9
	33	15-Aug	0	0	0.0	16,766	82,786	4.9	762	5,123	6.7	80,718	329,620	4.1	328	2,550	7.8
	34	22-Aug	0	0	0.0	6,592	33,073	5.0	565	3,969	7.0	24,332	98,072	4.0	167	1,296	7.8
	35	29-Aug	0	0	0.0	21,475	110,948	5.2	2,050	14,624	7.1	33,232	136,345	4.1	415	3,217	7.8
	36	5-Sep	0	0	0.0	6,164	32,256	5.2	724	5,638	7.8	4,717	19,004	4.0	119	887	7.5
	37	12-Sep	0	0	0.0	4,090	21,977	5.4	1,627	14,457	8.9	4,018	14,807	3.7	253	1,910	7.5
	Total		1	12	12.0	127,711	599,147	4.7	6,082	46,113	7.6	298,265	1,167,685	3.9	2,884	20,794	7.2
Humpy/Deadman (257-50, 60, 70)	26	27-Jun	0	0	0.0	1,062	4,991	4.7	0	0	0.0	6	17	2.8	71	492	6.9
	27	4-Jul	10	85	8.5	3,411	14,508	4.3	7	44	6.3	142	423	3.0	208	1,595	7.7
	28	11-Jul	0	0	0.0	757	2,895	3.8	4	29	7.3	59	178	3.0	44	280	6.4
	29	18-Jul	0	0	0.0	735	3,308	4.5	0	0	0.0	388	1,164	3.0	21	150	7.1
	30	25-Jul	0	0	0.0	4,406	20,246	4.6	12	73	6.1	50,244	161,691	3.2	441	3,053	6.9
	31	1-Aug	9	134	14.9	5,166	25,670	5.0	125	797	6.4	114,337	473,735	4.1	404	3,024	7.5
	32	8-Aug	0	0	0.0	3,208	15,818	4.9	184	1,363	7.4	162,171	674,684	4.2	695	5,142	7.4
	33	15-Aug	2	36	18.0	6,402	32,960	5.1	378	2,495	6.6	139,050	530,573	3.8	403	2,916	7.2
	34	22-Aug	0	0	0.0	9,027	49,869	5.5	2,092	16,332	7.8	122,936	544,963	4.4	798	6,355	8.0
	35	29-Aug	0	0	0.0	3,867	21,625	5.6	2,250	18,983	8.4	33,045	146,969	4.4	221	1,740	7.9
	36	5-Sep	0	0	0.0	1,703	9,723	5.7	1,435	11,910	8.3	10,484	35,634	3.4	112	787	7.0
	Total		21	255	12.1	39,744	201,613	5.1	6,487	52,026	8.0	632,862	2,570,030	4.1	3,418	25,534	7.5

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Seven Rivers (258-70, 80, 85, 90)	25	20-Jun	10	130	13.0	3,321	13,281	4.0	0	0	0.0	712	1,866	2.6	10,195	73,711	7.2
	26	27-Jun	18	127	7.1	1,142	5,614	4.9	0	0	0.0	1,108	4,351	3.9	10,619	82,240	7.7
	29	18-Jul	0	0	0.0	1,484	6,003	4.0	646	4,046	6.3	8,845	31,084	3.5	1,168	8,053	6.9
	32	8-Aug	0	0	0.0	40	181	4.5	10	49	4.9	74,486	274,962	3.7	17	81	4.7
	33	15-Aug	0	0	0.0	162	815	5.0	41	321	7.8	53,154	216,122	4.1	22	180	8.2
	34	22-Aug	0	0	0.0	201	995	5.0	207	1,761	8.5	95,594	312,259	3.3	51	366	7.2
Total			28	257	9.2	6,350	26,889	4.2	904	6,177	6.8	233,899	840,643	3.6	22,072	164,631	7.5
Two-Headed (258-54, 55, 60)	25	20-Jun	0	0	0.0	677	3,385	5.0	0	0	0.0	78	273	3.5	1,027	6,159	6.0
	26	27-Jun	0	0	0.0	936	4,103	4.4	0	0	0.0	186	815	4.4	6,162	40,261	6.5
	28	11-Jul	90	227	2.5	4,235	18,089	4.3	691	4,239	6.1	4,851	14,399	3.0	7,259	48,142	6.6
	29	18-Jul	75	292	3.9	5,760	26,068	4.5	1,065	6,609	6.2	29,047	92,934	3.2	2,089	13,989	6.7
	32	8-Aug	0	0	0.0	38	141	3.7	7	46	6.5	3,622	13,765	3.8	11	47	4.2
	34	22-Aug	0	0	0.0	68	323	4.8	161	1,583	9.8	8,996	27,973	3.1	45	432	9.6
Total			165	519	3.1	11,714	52,109	4.4	1,924	12,477	6.5	46,780	150,159	3.2	16,593	109,029	6.6

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Sitkalidak (258-10, 20, 30, 40, 51, 52, 53)	25	20-Jun	120	445	3.7	3,810	16,673	4.4	6	26	4.3	938	2,639	2.8	24,306	180,389	7.4
	26	27-Jun	331	1,096	3.3	9,472	35,263	3.7	121	501	4.1	3,690	9,391	2.5	35,295	239,517	6.8
	28	11-Jul	1,502	5,171	3.4	24,385	105,169	4.3	11,574	60,608	5.2	38,768	118,489	3.1	64,921	367,246	5.7
	29	18-Jul	257	854	3.3	7,875	38,488	4.9	2,317	13,154	5.7	24,893	89,067	3.6	3,354	18,791	5.6
	30	25-Jul	36	201	5.6	3,029	13,975	4.6	1,642	10,529	6.4	46,884	146,189	3.1	602	4,654	7.7
	33	15-Aug	1	15	15.0	926	4,583	4.9	1,709	11,130	6.5	128,316	426,060	3.3	1,096	7,540	6.9
	34	22-Aug	0	0	0.0	916	4,905	5.4	5,673	47,354	8.3	147,117	525,733	3.6	775	5,296	6.8
	35	29-Aug	0	0	0.0	158	829	5.2	3,034	26,908	8.9	22,362	76,147	3.4	348	2,442	7.0
	36	5-Sep	0	0	0.0	48	201	4.2	4,970	43,758	8.8	1,543	4,980	3.2	319	2,033	6.4
	Total		2,247	7,782	3.5	50,619	220,086	4.3	31,046	213,968	6.9	414,511	1,398,696	3.4	131,016	827,907	6.3
Inner and Outer Ugak (259-40, 41, 42, 43, 44, 45, 46)	25	20-Jun	12	39	3.3	70	303	4.3	55	219	4.0	33	103	3.1	1,166	9,775	8.4
	26	27-Jun	128	480	3.8	1,395	5,481	3.9	21	91	4.3	647	1,555	2.4	3,156	22,299	7.1
	28	11-Jul	104	448	4.3	2,855	10,163	3.6	2,022	8,704	4.3	7,032	15,788	2.2	5,105	29,435	5.8
	29	18-Jul	0	0	0.0	111	355	3.2	19	85	4.5	393	787	2.0	8	56	7.0
	30	25-Jul	0	0	0.0	434	1,472	3.4	266	1,417	5.3	3,250	11,054	3.4	93	722	7.8
	33	15-Aug	0	0	0.0	68	271	4.0	63	346	5.5	6,590	26,352	4.0	376	2,636	7.0
	34	22-Aug	0	0	0.0	78	398	5.1	56	378	6.8	1,535	5,216	3.4	844	6,289	7.5
	36	5-Sep	0	0	0.0	88	396	4.5	1,758	16,055	9.1	225	850	3.8	791	6,207	7.8
	37	12-Sep	0	0	0.0	20	81	4.1	9,635	80,092	8.3	47	131	2.8	434	2,583	6.0
	38	19-Sep	0	0	0.0	83	328	4.0	8,431	75,968	9.0	2	6	3.0	61	394	6.5
	39	26-Sep	0	0	0.0	0	0	0.0	244	1,981	8.1	0	0	0.0	0	0	0.0
	Total		244	967	4.0	5,202	19,248	3.7	22,570	185,336	8.2	19,754	61,842	3.1	12,034	80,396	6.7

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Outer Chiniak (259-21, 25)	28	11-Jul	0	0	0.0	73	227	3.1	216	865	4.0	471	942	2.0	980	5,882	6.0
	Total		0	0	0.0	73	227	3.1	216	865	4.0	471	942	2.0	980	5,882	6.0
Inner Chiniak (259-21, 24, 27)	38	19-Sep	0	0	0.0	0	0	0.0	94	938	10.0	0	0	0.0	0	0	0.0
	Total		0	0	0.0	0	0	0.0	94	938	10.0	0	0	0.0	0	0	0.0
Buskin River (259-22, 26)																	
	Total		0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Monaska/Mill Bay (259-10)	33	15-Aug	4	98	24.5	209	1,066	5.1	78	512	6.6	19,340	65,755	3.4	25	127	5.1
	34	22-Aug	0	0	0.0	9	36	4.0	274	1,682	6.1	2,369	7,640	3.2	1	4	4.0
	35	29-Aug	0	0	0.0	17	55	3.2	2,395	8,194	3.4	2,571	5,631	2.2	2	12	6.0
	36	5-Sep	0	0	0.0	5	21	4.2	625	5,007	8.0	660	2,059	3.1	3	24	8.0
	37	12-Sep	0	0	0.0	13	40	3.1	313	3,091	9.9	213	592	2.8	46	325	7.1
	Total		4	98	24.5	253	1,218	4.8	3,685	18,486	5.0	25,153	81,677	3.2	77	492	6.4
Big River (262-10, 15)	32	8-Aug	0	0	0.0	0	0	0.0	0	0	0.0	21,134	67,630	3.2	0	0	0.0
	Total		0	0	0.0	0	0	0.0	0	0	0.0	21,134	67,630	3.2	0	0	0.0

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Section (Statistical area)	Statistical week	Week ending	Chinook			Sockeye			Coho			Pink			Chum		
			No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Hallo Bay (262-20)	31	1-Aug	0	0	0.0	0	0	0.0	0	0	0.0	31,011	117,844	3.8	50	387	7.7
	32	8-Aug	0	0	0.0	0	0	0.0	0	0	0.0	13,677	46,910	3.4	0	0	0.0
	33	15-Aug	0	0	0.0	132	527	4.0	14	83	5.9	7,290	25,511	3.5	10	59	5.9
	Total		0	0	0.0	132	527	4.0	14	83	5.9	51,978	190,265	3.7	60	446	7.4
Kukak Bay (262-25, 27, 30)	30	25-Jul	0	0	0.0	194	534	2.8	33	197	6.0	913	2,282	2.5	37	338	9.1
	Total		0	0	0.0	194	534	2.8	33	197	6.0	913	2,282	2.5	37	338	9.1
Dakavak (262-35, 40, 45, 50, 55)	28	11-Jul	114	750	6.6	7,516	38,885	5.2	27	238	8.8	1,612	5,355	3.3	778	5,718	7.3
	29	18-Jul	276	1,463	5.3	16,784	64,407	3.8	252	2,180	8.7	12,903	40,298	3.1	2,324	17,958	7.7
	30	25-Jul	141	1,244	8.8	23,774	112,304	4.7	1,425	9,107	6.4	66,502	221,050	3.3	2,763	20,079	7.3
	31	1-Aug	265	1,782	6.7	33,419	146,752	4.4	2,708	17,610	6.5	67,807	209,787	3.1	1,787	13,499	7.6
	32	8-Aug	1	15	15.0	18,412	74,847	4.1	2,930	22,059	7.5	84,256	230,584	2.7	1,595	11,133	7.0
	34	22-Aug	0	0	0.0	2,332	12,837	5.5	16,865	73,530	4.4	8,997	30,520	3.4	127	914	7.2
	35	29-Aug	0	0	0.0	986	4,424	4.5	1,981	13,046	6.6	15,744	50,858	3.2	101	602	6.0
	Total		797	5,254	6.6	103,223	454,456	4.4	26,188	137,769	5.3	257,821	788,451	3.1	9,475	69,904	7.4
Katmai (262-60)	28	11-Jul	1	4	4.0	683	2,094	3.1	5	38	7.6	696	1,393	2.0	131	785	6.0
	29	18-Jul	0	0	0.0	5,018	19,314	3.8	37	314	8.5	1,692	5,243	3.1	357	2,931	8.2
	30	25-Jul	0	0	0.0	1,080	4,105	3.8	43	281	6.5	5,053	12,129	2.4	146	951	6.5
	35	29-Aug	0	0	0.0	1,616	8,000	5.0	417	2,171	5.2	2,819	11,843	4.2	79	442	5.6
	Total		1	4	4.0	8,397	33,511	4.0	502	2,803	5.6	10,260	30,608	3.0	713	5,109	7.2

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Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Statistical area)	week	ending	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.	No.	lb	Avg.
Alinchak (262-65, 70)	28	11-Jul	49	173	3.5	2,073	9,429	4.5	8	53	6.6	887	2,686	3.0	149	1,341	9.0
	30	25-Jul	0	0	0.0	0	0	0.0	0	0	0.0	6,603	15,849	2.4	0	0	0.0
	31	1-Aug	0	0	0.0	0	0	0.0	0	0	0.0	61,677	189,189	3.1	2,540	17,763	7.0
	32	8-Aug	0	0	0.0	186	794	4.3	10	40	4.0	202,722	632,458	3.1	707	4,614	6.5
	33	15-Aug	0	0	0.0	0	0	0.0	0	0	0.0	26,052	87,640	3.4	383	2,493	6.5
	34	22-Aug	2	18	9.0	102	491	4.8	48	352	7.3	282,331	904,716	3.2	3,203	22,067	6.9
	35	29-Aug	0	0	0.0	0	0	0.0	290	2,038	7.0	43,927	140,963	3.2	1,442	9,253	6.4
Total			51	191	3.7	2,361	10,714	4.5	356	2,483	7.0	624,199	1,973,502	3.2	8,424	57,531	6.8
Cape Igvak (262-75, 80, 90, 95)	28	11-Jul	100	503	5.0	2,460	11,736	4.8	152	974	6.4	1,688	5,655	3.3	1,405	9,995	7.1
	29	18-Jul	0	0	0.0	438	1,912	4.4	0	0	0.0	323	1,228	3.8	86	594	6.9
	30	25-Jul	0	0	0.0	1,102	3,307	3.0	185	1,110	6.0	5,170	12,925	2.5	213	1,915	9.0
	Total			100	503	5.0	4,000	16,955	4.2	337	2,084	6.2	7,181	19,808	2.8	1,704	12,504
Wide Bay (262-85)																	
Total			0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Grand total			8,324	47,864	5.8	1,524,845	7,008,142	4.6	441,353	3,139,361	7.1	21,555,542	74,098,310	3.4	368,901	2,508,461	6.8

Note: Includes cost recovery, but not test fish or commercial catch set aside for personal use.

## **APPENDIX M. ESCAPEMENT DATA**

Appendix M1.—Peak salmon escapements in the Kodiak Management Area, by district and species, 2020.

District	Number of fish				
	Chinook	Sockeye	Coho	Pink	Chum
Afognak	0	33,066	15,274	600,235	34
Northwest	0	19,600	100	1,054,100	26,800
Southwest	5,746	754,588	16,400	5,469,305	20,124
Alitak	44	434,371	13,463	1,005,466	13,016
Eastside Kodiak	4	30,509	2,645	614,163	44,823
Northeast Kodiak	0	7,744	3,054	686,127	2,073
Mainland	0	2,125	15,900	1,484,000	105,950
Area total	5,794	1,282,003	66,836	10,913,396	212,820