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Kodiak Management Area Commercial Salmon Fishery Annual Management Report, 2011

by

James Jackson,

Joe Dinnocenzo,

Geoff Spalinger,

and

Matthew Keyse

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Alaska Department of Fish and Game **Divisions of Sport Fish and Commercial Fisheries**

Symbols and Abbreviations

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Weights and measures (metric)

centimeter	cm
deciliter	dL
gram	g
hectare	ha
kilogram	kg
kilometer	km
liter	L
meter	m
milliliter	mL
millimeter	mm

Weights and measures (English)

cubic feet per second	ft^3/s
foot	ft
gallon	gal
inch	in
mile	mi
nautical mile	nmi
ounce	oz
pound	lb
quart	qt
yard	yd

Time and temperature

day	d
degrees Celsius	°C
degrees Fahrenheit	°F
degrees kelvin	K
hour	h
minute	min
second	s

Physics and chemistry

all atomic symbols	
alternating current	AC
ampere	A
calorie	cal
direct current	DC
hertz	Hz
horsepower	hp
hydrogen ion activity (negative log of)	pH
parts per million	ppm
parts per thousand	ppt, ‰
volts	V
watts	W

General

Alaska Administrative Code	AAC
all commonly accepted abbreviations	e.g., Mr., Mrs., AM, PM, etc.
all commonly accepted professional titles	e.g., Dr., Ph.D., R.N., etc.
at	@
compass directions:	
east	E
north	N
south	S
west	W
copyright	©
corporate suffixes:	
Company	Co.
Corporation	Corp.
Incorporated	Inc.
Limited	Ltd.
District of Columbia	D.C.
et alii (and others)	et al.
et cetera (and so forth)	etc.
exempli gratia (for example)	e.g.
Federal Information Code	FIC
id est (that is)	i.e.
latitude or longitude	lat. or long.
monetary symbols (U.S.)	$, ¢
months (tables and figures): first three letters	Jan,...,Dec
registered trademark	®
trademark	™
United States (adjective)	U.S.
United States of America (noun)	USA
U.S.C.	United States Code
U.S. state	use two-letter abbreviations (e.g., AK, WA)

Mathematics, statistics

all standard mathematical signs, symbols and abbreviations	
alternate hypothesis	H_A
base of natural logarithm	*e*
catch per unit effort	CPUE
coefficient of variation	CV
common test statistics	(F, t, χ^2, etc.)
confidence interval	CI
correlation coefficient (multiple)	R
correlation coefficient (simple)	r
covariance	cov
degree (angular)	°
degrees of freedom	df
expected value	*E*
greater than	>
greater than or equal to	≥
harvest per unit effort	HPUE
less than	<
less than or equal to	≤
logarithm (natural)	ln
logarithm (base 10)	log
logarithm (specify base)	$\log_2$, etc.
minute (angular)	'
not significant	NS
null hypothesis	H_O
percent	%
probability	P
probability of a type I error (rejection of the null hypothesis when true)	α
probability of a type II error (acceptance of the null hypothesis when false)	β
second (angular)	"
standard deviation	SD
standard error	SE
variance	
population	Var
sample	var

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Alaska Department of Fish and Game, Division of Commercial Fisheries, Kodiak

Alaska Department of Fish and Game
Division of Sport Fish, Research and Technical Services
333 Raspberry Road, Anchorage, Alaska, 99518-1565

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James Jackson, Joe Dinnocenzo, Geoff Spalinger, and Matthew Keyse
Alaska Department of Fish and Game, Division of Commercial Fisheries
211 Mission Road, Kodiak, AK 99615, USA

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ABSTRACT

This report provides an overview of the 2011 Kodiak Management Area (KMA) salmon resources, stock status, and commercial, personal use, and subsistence salmon fisheries.

Sockeye salmon *Oncorhynchus nerka* escapements met or exceeded the established goals of Malina, Afognak, Uganik, Frazer, Saltery, late-run Karluk, early-run Ayakulik, late-run Ayakulik, Buskin, Little River, Pasagshak and early-run Upper Station, but were not met for early-run Karluk and late-run Upper Station. The Kodiak Archipelago and Mainland District pink salmon *O. gorbuscha* escapement goals were met. The Kodiak Archipelago and Mainland District chum salmon *O. keta* lower bound escapement goals were exceeded. The Chinook salmon *O. tshawytscha* escapement goal was achieved in the both the Karluk and Ayakulik rivers. The coho salmon *O. kisutch* escapement goals were achieved in the Buskin, American, and Olds rivers.

The 2011 KMA commercial salmon fishery began on June 9 with the last reported landing on September 16. A total of 339 permits were fished, consisting of 175 purse seine permits, 7 beach seine permits, and 157 set gillnet permits. The total commercial salmon harvest in the KMA, including cost recovery harvest, but excluding test fishery harvest and commercially-caught salmon retained, but not sold, was 18,454 Chinook; 2,266,651 sockeye; 188,474 coho; 16,642,402 pink; and 823,202 chum salmon. Commercial harvests were less than projected based on the forecast for all species of salmon except sockeye salmon. The exvessel value for salmon harvested by all gear types totaled approximately 44.2 million dollars.

Commercially-harvested salmon that were reported as retained for personal use, but not sold, totaled 9,941 salmon in the KMA, consisting of 161 Chinook, 1,314 sockeye, 2,009 coho, 6,390 pink, and 67 chum salmon.

Harvest data from subsistence permits issued in 2011 have not yet been summarized.

Key words: Chinook salmon, sockeye salmon, coho salmon, pink salmon, 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 (KMA), its salmon *Oncorhynchus* spp. resources, and the commercial salmon fisheries and harvest strategies that were in effect during the 2011 commercial salmon fishing season. A summary is also provided of the 2011 season and historical information pertaining to commercial harvest and effort levels, escapement, subsistence, and commercial harvest retained for personal use. In addition, this report provides a comparison of salmon escapement as it pertains to the condition of salmon stocks found within the KMA.

The KMA comprises 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 KMA commercial fishing districts (Appendix A), fishing opportunity and management actions taken during the 2011 season (Appendix B), detailed information on specific fisheries (Appendices C through 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 (Tiernan 2011b).

Due to the effects of the M/V *Exxon Valdez* oil spill, most of the KMA remained closed to commercial salmon fishing during the 1989 season. Most tables and graphs in this report include 1989 data, but exclude it in the historical averages.

SALMON RESOURCES

SALMON PRODUCING STREAMS

Salmon migration or spawning has been documented in approximately 900 streams within the KMA (Johnson and Blanche 2011), but only 442 streams have been documented to support yearly spawning populations of salmon (Table 1). There are Chinook salmon *O. tshawytscha* in 7 streams, sockeye salmon *O. nerka* in 61 streams, coho salmon *O. kisutch* in 235 streams, pink salmon *O. gorbusha* in approximately 438 streams, and chum *O. keta* in 214 streams. Majority of the pink salmon streams are located in the Kodiak Archipelago (Afognak, Northwest Kodiak, South West Kodiak, Alitak, Eastside Kodiak, and Northeast Kodiak districts; Appendix A1), with only 101 pink salmon streams located in the Mainland District (on the Alaska Peninsula). In years with very large returns, additional small streams have been used by pink salmon.

SUPPLEMENTAL PRODUCTION

Two hatcheries located in the KMA 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 near the city of Kodiak (Figure 2). The Kitoi Bay Hatchery primarily produces pink salmon, but also cultures sockeye, chum, and coho salmon (Aro 2010). KRAA outstocks (placing juvenile salmon in sites other than the hatchery) some juvenile coho and sockeye salmon fry from the Kitoi Bay Hatchery, but the majority of the 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, near Pillar Creek, which drains into Monashka Bay and is used primarily as an incubation facility for sockeye salmon outstocking projects. Chinook salmon are also reared at the Pillar Creek Hatchery for outstocking (Brennan 2011).

The Kodiak Regional Planning Team (KRPT), a group consisting of representatives from the Alaska Department of Fish and Game (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. The 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 (Honnold 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.

The 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 the 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 ten-year (2001–2010) average supplemental production has included an undetermined number of

Chinook salmon and an estimated 327,659 sockeye; 147,026 coho; 6,940,628 pink; and 187,007 chum salmon (Table 2).

In 2011, sockeye salmon were outstocked at Spiridon, Hidden, Crescent, Ruth, Upper Jennifer, and Little Waterfall lakes to produce harvest opportunities in terminal fisheries near the outlets of these systems. Sockeye salmon were also outstocked in 2011 in Little Kitoi Lake for broodstock development. Coho salmon were outstocked into Crescent Lake near the community of Port Lions, Katmai Lake on Spruce Island near the community of Ouzinkie, and Jennifer and Ruth lakes on Afognak Island to provide subsistence and commercial harvest opportunities (Brennan 2011; Aro 2010).

ESCAPEMENT GOALS AND MONITORING

ESCAPEMENT GOALS

In 2010, ADF&G staff reviewed previously established escapement goals for the KMA for each system and salmon species and recommended that several be modified or eliminated (Nemeth et al. 2010). The directors of the Division of Commercial Fisheries and the Division of Sport Fish accepted these recommended changes to the escapement goals. In 2011, the KMA commercial salmon fisheries were managed to achieve escapement levels that were within the established ranges or, in some cases, which exceeded lower bound escapement goals. Established goals in the KMA include two for Chinook salmon, 14 for sockeye salmon, four for coho salmon, and two each for pink and chum salmon (Table 3). A comparison of 2011 salmon peak escapements and escapement goals of index streams are outlined in Table 3.

ESCAPEMENT MONITORING

In 2011, weirs were operated on the major systems of the KMA (Table 4; Figure 2; Tiernan 2011b). The three largest systems with weirs are Karluk River (at Karluk Lagoon), Ayakulik River (at the outlet), and South Olga Lakes (at the outlet of South Olga Creek at Upper Station). Six smaller systems with weirs are Afognak Lake (at Litnik), Saltery Lake, Pasagshak River, Big Creek, Buskin River (at Buskin Lake and also Lake Louise), and Dog Salmon River. On the Dog Salmon River, a fish pass is also operated upstream near the outlet of Frazer Lake. To avoid counting fish twice when summing escapement totals (Table 4), the Dog Salmon weir counts are considered the total escapement for all species in this system, with the exception of sockeye salmon. Since a significant number of sockeye salmon that pass the Dog Salmon weir do not ascend the fish pass and are not likely to reproduce, the cumulative sockeye salmon count through the fish pass is considered the escapement for this drainage.

The majority of sockeye salmon and most Chinook salmon ascending rivers in the KMA were counted through these weirs (Tables 3–5; Tiernan 2011b). The availability 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 also collected from fixed-wing aircraft surveys of bays and streams. Coverage of coho salmon systems was often 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 were considered an index of the actual escapement for use in season 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 two counts which 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 (Tiernan 2011b).

STOCK STATUS

Chinook Salmon

There has been concern for the low returns of Chinook salmon escapement in the Karluk and Ayakulik rivers in recent years. In an attempt to increase escapements, regulation 5 AAC 18.395 provides the 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.

Due to weak sockeye salmon runs to Karluk River in 2011, no commercial fishery occurred in the Inner Karluk and Outer Karluk sections of the Southwest Kodiak District until September 7, which reduced interception of Karluk Chinook salmon. A weak Chinook salmon run was also expected in Karluk River, non-retention of Chinook salmon by seiners was implemented in that portion of the Central Section south of Cape Kuliuk and the Southwest Kodiak District during all fishing periods allowed prior to July 13. By this time it became apparent that both Karluk and Ayakulik rivers' escapement goals would be achieved.

The Karluk River Chinook salmon season total weir count of 3,420 fish (Table 4; Tiernan 2011b) was within the escapement goal range of 3,000–6,000 (Table 3; Nemeth et al. 2010). The inriver sport fishery was open but fishermen could not retain any Chinook salmon on the Karluk River in 2011. Because of this the estimated total escapement was the same as the weir count. This was the first year the Chinook salmon escapement goal was achieved in the Karluk River since 2006.

In 2011, a total of 4,316 Chinook salmon were counted through the Ayakulik River weir (Table 4; Tiernan 2011b). An estimated 250 Chinook salmon were harvested upstream of the weir in the sport fishery (Donn Tracy, Sport Fish Biologist, ADF&G, Kodiak, personal communication), resulting in an escapement of 4,066 that was within the escapement goal range of 4,000–7,000 (Table 3; Nemeth et al. 2010).

Dog Salmon Creek has a run of Chinook salmon originally introduced in 1970. A total of 83 were counted through the Dog Salmon weir in 2011 (Table 4; Tiernan 2011b). There is no escapement goal established for this system, but the average total season cumulative weir count in the previous decade (2001–2010) was 333 fish (Tiernan 2011a). There is no sport fishery

allowed for Chinook salmon on Dog Salmon River, so the escapement is considered to be the total season cumulative weir count.

Sockeye Salmon

Sockeye salmon counted through weirs accounted for about 94% (949,812 fish) of all documented sockeye salmon escapements in 2011. Additional escapements of 65,028 sockeye salmon were estimated by aerial and foot surveys in other systems such as Malina Creek, Ocean Beach, Kaflia Lake, Uganik Lake, Little River Lake, Thorshiem Lake, Pauls Lake, and Swikshak Lagoon (Tiernan 2011b). Sockeye salmon escapements generally met escapement goals with the exception of the Karluk River early-run and Upper Station late-run stocks (Table 3).

Coho Salmon

Estimating coho salmon escapements to KMA streams are difficult because of survey conditions and cost. Coho salmon often do not migrate into streams until late fall, when rains cause water levels to rise, and reduced stream water clarity creating difficult survey conditions. Late-season escapement surveys are also limited by aerial survey budget constraints. Coho salmon escapement goals were reevaluated in 2010 (Nemeth et al. 2010). Information adequate for establishment of escapement goals is available for only 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 2011, coho salmon escapement goals were achieved in the Buskin, American, and Olds rivers, but not in the Pasagshak River (Table 3).

With the exception of the Buskin River and Big Creek weirs, most of the weirs were pulled 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 about 9% of the 2011 KMA pink salmon escapement by number was counted through salmon weirs (Tables 4 and 5). The 2011 pink salmon escapement of 2,506,714 fish in the Kodiak Island Archipelago was within the escapement goal range of 2,000,000–5,000,000 fish (Table 3; Nemeth et al. 2010). The Mainland District pink salmon escapement of 273,500 fish was within the escapement goal range of 250,000–1,000,000 fish (Table 3; Nemeth et al. 2010). District wide peak escapements are shown in Appendix M1.

Chum Salmon

In 2010, ADF&G's salmon management and research staff changed the aggregated chum salmon escapement goals that were developed in 2007, to separate lower bound sustainable escapement goals (SEGs) for the Kodiak Archipelago and the Mainland District. The majority of the 2011 chum salmon escapement was estimated from aerial surveys, with less than 1% 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 also may occupy more turbid systems, making observations difficult. Limited aerial surveys were conducted on several major KMA chum salmon systems along Kodiak Island's west side and in the Mainland District due to the remoteness of these systems. Pink salmon, usually in greater numbers, are often present in chum salmon systems and make counting the less numerous chum salmon difficult or

impossible. Because of this, estimates based on aerial surveys are considered minimum estimates of actual escapement.

The 2011 chum salmon escapement in the Mainland District was 138,600 fish, above the minimum goal of 104,000 fish (Table 3; Nemeth et al. 2010). The chum salmon escapement for the Kodiak Archipelago of 283,530 fish exceeded the minimum goal of 151,000 fish (Table 3; Nemeth et al. 2010).

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 2011, there were 595 commercial salmon fishing permits available in the KMA, of which 339 were fished (Table 7; CFEC 2010). This was above the recent 10-year average (2001–2010) of 297 permits fished annually.

Inseason management of the KMA commercial salmon fishery is structured around seven districts that are subdivided into 56 sections (Appendices A1–A8). These sections are occasionally subdivided further in 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 Board of Fisheries (BOF) has also designated five Special Harvest Areas (5 AAC 40.085) and one Terminal Harvest Area (5 AAC 18.378) within the KMA to provide harvest opportunity of enhanced salmon runs (Dinnocenzo and Jackson 2011).

GEAR TYPES

In the KMA, there are restrictions on the types of gear that can be used in specific management units 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 is allowed to operate in the entire management area. In the Alitak Bay, Moser Bay, and Olga Bay sections of the Alitak District, set gillnets are the only legal gear (5 AAC 18.330(d)(2)), except seine gear is allowed after September 4. These sections were designated set gillnet fisheries only prior to Alaska being granted statehood. In 1970, this regulation was amended such that the Moser Bay and Olga Bay sections remained set gillnet fisheries only through September 4; afterward, seine gear is legal in the entire Alitak District.

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 (5 AAC 18.330(b)). Since 1974, the geographical areas and their specified gear types have remained unchanged.

BOARD OF FISHERIES-APPROVED REGULATORY MANAGEMENT PLANS

To regulate Kodiak commercial salmon fisheries, ADF&G staff are guided by ten KMA salmon management plans that describe biological and allocative constraints and were adopted into regulation by the BOF (5 AAC 18.360–369). These plans were all in effect for the KMA in 2011 (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. These plans are the *Alitak District Salmon Management Plan* (MP) (Appendix D), *Westside Kodiak Salmon MP* (Appendix E), *Eastside Afognak MP* (Appendix G), *Eastside Kodiak Salmon MP* (Appendix I), *Mainland District Salmon MP* (Appendix K), and *North Afognak/Shuyak Island Salmon MP* (Appendix J). The *Cape Igvak Salmon* (Appendix C) and *North Shelikof Strait Sockeye Salmon* (Appendix F) *MPs* 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* and *Spiridon Bay Sockeye Salmon MPs* (Appendix H) provide for full utilization of enhanced stocks while protecting local natural stocks.

RECENT REGULATION CHANGES

The BOF reviews the salmon fishery regulations every three years. The most recent review, in January of 2011, resulted in the following two notable changes:

1. A sunset provision in regulation (5 AAC 18.331(j)) which allowed a permit holder who owns two Kodiak set gillnet permits to operate them both simultaneously, was allowed to go into effect on December 31, 2010. Set gillnet permit holders may only operate one gill net permit.
2. 5 AAC 18.395(b) was adopted directing the ADF&G to prohibit the retention of Chinook salmon 28 inches or greater in length by seine gear between the latitudes of Cape Kuliuk (in the Central Section of the Northwest Kodiak District) to Low Cape (the southern boundary of the Inner Ayakulik Section and the Southwest Kodiak District) if, at any time before July 30, the ADF&G projects that the Karluk River Chinook salmon escapement goal will not be met.

In addition, there were some minor changes made to boundary lines of management units and closed waters. Precise language describing the details is available in the published regulations (ADF&G 2011).

SALMON FORECASTS

The ADF&G forecasts salmon runs to inform the 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 (Dinnocenzo and Jackson 2011). Chinook, coho, pink, and chum salmon harvests are projected by broad geographic area, while forecasts are made for major individual sockeye salmon stocks. Projected harvests are summarized by fishery and geographic area (Eggers and Carroll 2011; Table 9).

The 2011 commercial Chinook salmon projected harvest was 20,000 fish (Table 9). The sockeye salmon harvest was forecasted to be 2,053,228 fish (Table 9). This projection included formal forecasts for the major sockeye salmon systems of Karluk, Ayakulik, Upper Station, and Dog Salmon (Alitak District), plus projected harvests from minor sockeye salmon systems, supplemental production (from enhancement projects), the Cape Igvak Section, and other

miscellaneous systems. The 2011 projected KMA harvest also included 373,047 coho, 29,300,000 pink, and 1,139,577 chum salmon (Table 9). These projections included expected supplemental production of salmon from Kitoi Bay hatchery and the Spiridon Bay enhancement projects.

2011 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 and Chinook 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 from July through August. Coho salmon are generally present from August through October. Commercial salmon fisheries are structured around the seasonal abundance of specific salmon species.

The 2011 Kodiak Area Commercial Salmon Fishery Harvest Strategy, published in April 2011, outlined the approaching fishing season (Dinnocenzo and Jackson 2011). This document contained a synopsis of the expected chronology of the 2011 commercial salmon fisheries by species, expected escapements and harvests, an overview of pertinent regulations, and a summary of the MPs that guide management throughout the season.

Inseason management actions follow a generalized plan described in a harvest strategy issued annually. This strategy details a specific chronology of management actions related to salmon run timing by species. Sockeye salmon are the primary species on which fisheries are targeted 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

Based primarily on the forecast of a weak early-run sockeye salmon run at Karluk River, the 2011 harvest strategy listed June 9 as the initial opening date of the early-run sockeye salmon fishery (Figure 3; Dinnocenzo and Jackson 2011). 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 Special Harvest Areas, the Inner Kitoi Bay, Outer Kitoi Bay, Duck Bay, and Izhut Bay sections were slated to open to continuous fishing on June 9. The Alitak District was scheduled to open on June 9 if the run strength of early-run sockeye salmon passing Dog Salmon and Upper Station weirs was as strong as expected. The initial opening would be for 33 hours with no extensions. The first fishing period in the Cape Igvak Section could occur as early as June 1, if the Chignik Lake sockeye salmon early run was as strong as expected, and the run timing was normal.

An initial 33-hour opening was scheduled to start June 9 in the Anton Larsen, 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 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. After June 10, additional fishing time in Westside fisheries was to be based solely on the strength of the sockeye 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 (Eggers and Carroll 2011), 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 21 for select systems with minor sockeye salmon returns. These included the Eastside Kodiak District, the Northwest Afognak Section 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, Swikshak, and Kaflia 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 (Dinnocenzo and Jackson 2011). Based on the forecasted pink salmon run strength, the initial general pink salmon opening was set at 105 hours in length, with the two subsequent fishing periods following in July set at 105 hours per week. Adjustments in fishing time in late July and August in most areas are predicated on the strength of local pink and chum salmon runs and in September on the strength of coho salmon runs.

2011 COMMERCIAL SALMON FISHERY SUMMARY

The 2011 Kodiak commercial salmon fishery began on June 9 with a 33-hour opening in the Central and North Cape sections of 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. A 33-hour period in the Alitak District also occurred as anticipated on June 9 (Appendix B1 and B2). The Chignik sockeye salmon run was strong, a total of 11 days of fishing was allowed in the Cape Igvak Section in June. The two 33-hour openings scheduled for June 14 and 21 in the Eastside Kodiak District and the Outer Kukak and Big River sections of the Mainland District occurred as scheduled. The first two openings in the Anton Larsen, Sharatin Bay, Kizhuyak Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, and Uyak Bay sections of the Northwest Kodiak District were allowed as scheduled. A 57-hour fishing period in the Outer Ayakulik Section was allowed to harvest Ayakulik River sockeye salmon starting June 16 along with a six-hour opening in the Inner Ayakulik Section.

The pink salmon fishery started as scheduled with a 105-hour weekly fishing period on July 6 except for those sections of the Mainland District managed under the North Shelikof Sockeye Salmon Management Plan, where openings are restricted to 57 hours in length. Because the late sockeye salmon run was weaker than expected, the Cape Igvak fishery was not allowed to reopen after the overlap period until after July 25, when the Cape Igvak Management Plan was no longer in effect.

Beyond the anticipated fishery openings in the harvest strategy, additional fishing opportunities were provided by emergency order to facilitate 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 2011, the KMA commercial salmon harvest occurred over a 100-day period, with the last reported landing occurring on September 16 (Figure 3). A total of 11 shore-based plants processed salmon from the 2011 KMA fishery (Table 10).

PERMIT HOLDER PARTICIPATION

A total of 339 KMA commercial salmon fishing permit holders reported harvests in the common property fishery in 2011. This was 24 more permits than during the 2010 season and above the recent 10-year average (2001–2010) of 297 permits (Table 7). Purse seine participation during the 2011 season (175 permits) was 20 permits more than the 2010 season (155 permits) and above the previous 10-year average of 146 permits. Seven beach seine permit holders were active during the 2011 season. This was the highest participation by beach seiners since 1995. Set gillnet participation in the 2011 KMA commercial salmon fishing season, as portrayed in the harvest database was 157 permits, one less than during the 2010 season and above the recent 10-year average (2001–2010) of 150 permits (Table 7).

Set net permit participation statistics during the years 2008 through 2010 are not completely comparable to either 2011 or years prior to 2008 because during those years individual set gillnet permit holders were allowed to own two permits and operate two sets of gear. During the year this regulation (5 AAC 18.331 (j)) was in effect, the ADF&G could not collect accurate effort statistics from the fish ticket data in the KMA set gillnet fishery because the fish ticket did not document the number of dual permit holders fishing both sets of gear.

In 2008 and 2009, dual permit holders were issued only one card that could be used to imprint on a fish ticket. In 2010, dual permit holders were issued two cards, either of which could be used to imprint on a fish ticket. This inconsistency in how cards were issued, along with the ADF&G not documenting the use of multiple permits on one delivery of fish, has caused permit participation statistics to be distorted.

HARVEST

A total of 19,939,183 salmon were harvested in the 2011 KMA commercial fisheries (common property and cost recovery combined), which was below the recent 10-year (2001–2010) average of 24,260,279 salmon (Table 6).

Purse seine permit holders caught 94.8% (17,281,353) of the total number of salmon harvested which included: 16,085 Chinook; 1,808,056 sockeye; 141,724 coho; 14,612,231 pink; and 703,257 chum salmon in the common property fishery (Table 11). Set gillnet permit holders caught 5.0% (917,507) of the salmon harvested which included: 2,337 Chinook; 419,548 sockeye; 39,241 coho; 365,078 pink; and 91,303 chum salmon in the common property fishery(Table 11). Beach seine permit holders caught 0.2% (30,062) of the salmon harvested which included: 32 Chinook; 6,994 sockeye, 21 coho; 22,920 pink and 95 chum salmon (Table 11).

CHINOOK SALMON

The Chinook salmon harvest of 18,454 fish was slightly above the 2001–2010 average of 18,138 fish (Table 6) but below the projected harvest of 20,000 fish (Table 9). The average weight of Chinook salmon was 9.38 pounds (Table 11). The district with the highest the Chinook salmon harvest was the Eastside Kodiak District with 34% (6,270) of the total Chinook harvest in the KMA.

SOCKEYE SALMON

The sockeye salmon harvest of 2,266,651 fish (Table 6) was slightly above the forecast of 2,053,228 fish (Table 9) but below the 2001–2010 average catch of 2,431,652 fish (Table 6). The average weight of sockeye salmon was 5.93 pounds (Table 11). Approximately 16% of the sockeye salmon harvest (280,845 fish) came from the Westside Kodiak fishery.[1] The area near the Kitoi Bay Hatchery accounted for a harvest of 238,532 fish, although an unknown portion of these fish were probably not of hatchery origin. The Spiridon Lake enhancement project produced an estimated harvest of 167,248 sockeye salmon, of which 12% (20,241 fish) were harvested for cost recovery (Table 9).

COHO SALMON

The coho salmon harvest of 188,474 fish (Table 6) was below the forecast of 373,047 fish (Table 9) and also below the 2001–2010 average of 389,496 fish (Table 6). The average weight of coho salmon was 6.68 pounds (Table 11). Westside fisheries caught approximately 49,749 coho salmon, below the forecast of 107,218 fish (Table 9). The Eastside/North end Kodiak coho salmon harvest[2] of 50,748 fish was very near the forecast of 52,072 fish (Table 9). The Afognak nonhatchery harvest of 6,378 coho salmon was below the forecast of 28,002 fish (Table 9). The coho salmon harvest attributed to the Kitoi Bay Hatchery was 68,575 fish, which was below the hatchery forecast of 156,000 fish (Table 9).

PINK SALMON

The pink salmon harvest of 16,642,402 fish (Table 6) was below the forecasted harvest of 29,300,000 fish (Table 9) and below the most recent five odd-year (2001–2009) average of 23,246,051 fish (Table 6). The average weight of 3.22 pounds (Table 11) of pink salmon harvested was slightly below the 2009 average weight of 3.31 pounds. The non-hatchery (wild stock) pink salmon harvest of 14,471,149 fish was below the harvest projection of 21,900,000 fish. The Eastside/north end Kodiak fishery, accounted for more than 51% of the total KMA pink salmon harvest (8,410,572 fish), and was greater than the forecast of 8,103,000 fish (Table 9). The pink salmon run in portions of the Alitak District was also strong with 4,896,501 pink salmon harvested, very near the forecast of 4,818,000 fish. The fishery associated with the Kitoi Bay Hatchery accounted for 2,171,253 pink salmon which was below the forecast of 7,400,000 fish (Table 9). Kitoi Bay Hatchery cost recovery accounted for 76% or 1,642,173 of those fish.

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[1] 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.

[2] 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, Sharatin, and Kizhuyak sections, plus part of the Central Section (259-35–259-39)

Additional hatchery-bound pink salmon were likely harvested along the west side and east side of Kodiak and Afognak islands. However, the ADF&G does not have a stock separation program for pink salmon and is unable to differentiate stocks.

CHUM SALMON

The chum salmon harvest of 823,202 fish (Table 6) was below the forecast of 1,139,577 fish (Table 9) and slightly below the 2001–2010 average of 886,441 fish (Table 6). The average weight of the chum salmon harvested in 2011 was 6.78 pounds (Table 11). Westside Kodiak fisheries harvested 107,977 chum salmon, which was below the forecast of 221,945 fish (Table 9); Eastside/North end Kodiak fishery harvest totaled 205,927 chum salmon, which was below the forecast of 267,112 fish. Mainland District harvest totaled 112,168 chum salmon, also below the forecast of 150,102 fish (Table 9). The chum salmon harvest attributed to the Kitoi Bay Hatchery of 320,532 fish was less than the forecast of 411,000 fish (Table 9).

EXVESSEL VALUE

The estimated total exvessel value of the 2011 fishery was $44,247,431 (Table 11), which was well above the 2001–2010 average value of $22,559,496 (Table 12) and the highest since 1995. This exvessel value was based on inseason price estimates and does not reflect additional payments made to fishermen 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 $224,349 in 2011 (2001–2010 average $120,161; Table 12). Gillnet permit holders' gross earnings averaged $31,155 (2001–2010 average $34,650; Table 12). Beach seine permit holder's gross earnings averaged $13,572.

COST RECOVERY

KRAA conducted a cost recovery program to pay operational costs at the Kitoi Bay Hatchery from 1987 through 1989 and 2003 through 2010. In 2011, KRAA conducted two cost recovery programs in the KMA (Aro 2010; Brennan 2011). A cost recovery harvest occurred August 2 through 27 within the Inner Kitoi Bay Section to defray hatchery operational costs and included 11,812 sockeye; 7,488 coho; 1,642,173 pink; and 28,542 chum salmon. Also a cost recovery program in Spiridon Bay SHA (in Telrod Cove) was conducted to pay the cost of running the enhancement program in Spiridon Lake. From June 21 through 30, 20,241 sockeye, and 2 chum salmon were harvested in this program. The entire cost recovery harvest supporting KRAA programs in the KMA in 2011 included 32,053 sockeye; 7,488 coho; 1,642,173 pink; and 28,547 chum salmon.

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 has 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 fishermen are required to return their permits to the 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 over-exploitation) and some areas near heavily exploited salmon systems were closed to subsistence salmon fishing by regulation (5 AAC 01.525).

From 2002 through 2007, varying curtailment measures of the subsistence fishery were necessary to conserve Afognak Lake sockeye salmon for escapement. In 2008 and 2009, the Afognak Lake sockeye salmon run was strong enough to allow subsistence harvest without increasing closed waters or shortening fishing time, but commercial fishing was not allowed. In 2010, the run was strong and closed waters were reduced inseason for both subsistence and commercial fisheries in an attempt to keep sockeye salmon escapement within desired escapement goals.

For the first year since 2007, the 2011 Chinook salmon runs to the Karluk and Ayakulik rivers were strong enough to make inseason restrictions to the subsistence fishery of Chinook salmon unnecessary.

The 2011 Buskin Lake sockeye salmon run was of moderate strength, and no in-season restrictions of the subsistence salmon fishery near the mouth of this stream were necessary to conserve adequate salmon for escapement. In fact, closed waters were reduced from June 21 through July in an attempt to prevent over escapement of sockeye salmon in the Buskin River. The 2011 Litnik sockeye salmon run was strong and closed waters were reduced on June 4 to allow for more effective subsistence and commercial harvests and prevent over escapement of sockeye salmon into Afognak Lake.

The 2011 subsistence harvest data were not summarized at the time this report was written. However, 1,895 of the 2010 permit holders returned subsistence permits and reported a harvest of 28,017 salmon, consisting of 158 Chinook; 22,170 sockeye; 4,200 coho; 1,266 pink; and 273 chum salmon (Table 13). Historically, the most utilized subsistence fishery areas are the north end of Kodiak Island, the Buskin and Pasagshak rivers, and the southeast side of Afognak Island at Litnik. Reported subsistence salmon harvests averaged 35,238 fish annually for the 10-year period 2001–2010 (Table 13). Sockeye salmon have accounted for 78% of the recent 10-year average harvest (27,386 fish), followed by coho salmon at 16% (5,601 fish), pink salmon at 5% (1,587 fish), and both chum salmon (353 fish), and Chinook salmon (316 fish) at about 1% (Table 13).

RETENTION OF SALMON TAKEN IN COMMERCIAL FISHERIES

In 1994, the BOF readopted regulation 5 AAC 39.010, which allowed commercial fishermen to retain legally-harvested salmon for their own use. In the KMA commercial fishermen 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)). In 1997, 10 permit holders reported 784 salmon retained for their own use (Table 14). This use increased dramatically in 2003, when 36 permit holders retained 24,985 salmon (Table 14). Many salmon were “custom processed” at local processors, normally as vacuum-packed, frozen fillets. It was reported that these salmon were destined for sale as part of direct marketing efforts.

Because of the significant increase of retained salmon and the likelihood that some of these salmon were being sold illegally, in December of 2003 the BOF rewrote the original regulation (5 AAC 18.355(b)) to clarify the intent and to reiterate the unlawful practice of selling

commercially-retained salmon without appropriate permits. The BOF also placed the regulation under *General Provisions* (5 AAC 39.010) which reads, "*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 2011, 57 permit holders reported retaining 9,941 salmon from their commercial harvest for "home pack" or personal use. This included 161 Chinook; 1,314 sockeye; 2,009 coho; 6,390 pink; and 67 chum salmon (Table 14).

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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[a]	Number of Streams with each Species[b]				
		Chinook	Sockeye	Coho	Pink	Chum
Afognak	97	0	24	88	97	16
Northwest Kodiak	69	1	6	36	69	29
Southwest Kodiak	11	2	3	6	11	6
Alitak	31	1	8	16	31	22
Eastside Kodiak	104	1	9	39	104	57
Northeast Kodiak	29	2	4	29	25	14
Mainland	101	0	7	21	101	70
TOTAL	442	7	61	235	438	214

[a] The State of Alaska's Sport Fisheries Division identifies over 900 streams in the Kodiak Management Area that have documented use by anadromous fish (Johnson and Blanche 2011). Many of these streams are very small and may only be used by pink salmon in years with very large returns.

[b] 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, 1994–2011.

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	116,036	3,241,345	191,277	3,859,981
2011	491,670	70,335	2,174,871	320,532	3,057,408
Average					
2001–2010	327,659	147,026	6,940,628	187,007	7,602,320

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 -32 and 252-35). 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 Settlers Cove SHA (259-35). Includes fish not sold and set aside for personal use by commercial fishermen and cost recovery harvests.

Table 3.–Comparison of 2011 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 Lower	Escapement Goal Upper	Escapement Estimate[a]
Chinook				
Karluk[b]	255-101	3,000	6,000	3,420
Ayakulik[b]	256-201	4,000	7,000	4,066
Sockeye				
Malina	251-105	1,000	10,000	3,800
Afognak	252-342	20,000	50,000	49,193
Little River	253-115	3,000		3,900
Uganik	253-122	24,000		37,900
Karluk	255-101			
Early run		110,000	250,000	86,642
Late run		170,000	380,000	230,680
Ayakulik	256-201			
Early run		140,000	280,000	177,480
Late run		60,000	120,000	83,661
Upper Station	257-304			
Early run [c]		25,000	93,000	28,759
Late run		120,000	265,000	101,893
Frazer	257-403	75,000	170,000	134,642
Buskin	259-211	5,000	8,000	11,982
Pasagshak	259-411	3,000		13,402
Saltery	259-415	15,000	35,000	30,768
Coho				
Buskin	259-211	3,200	7,200	6,026
American	259-231	400		1,061
Olds (Sid Olds)	259-242	1,000		1,003
Pasagshak	259-411	1,200		1,083
Pink				
Mainland District		250,000	1,000,000	273,500
Kodiak Archipelago		2,000,000	5,000,000	2,506,714
Chum				
Mainland District		104,000		138,600
Kodiak Archipelago		151,000		283,530

[a] 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, for example) the escapement estimate available is a minimal count based on limited information.

[b] Escapement of Chinook salmon includes weir counts minus an estimate of sport fish harvest above the weir.

[c] Upper Station early-run lower bound escapement goal based on Optimum Escapement Goal of 25,000 fish.

Table 4.–Fish weir installation and removal dates and cumulative salmon weir counts for systems with weirs in the Kodiak Management Area, 2011.

	2011 Dates		Salmon Species Enumerated[a]				
Weir Locations	Installed	Removed	Chinook	Sockeye	Coho	Pink	Chum
Karluk River	5/22	9/22	3,420	317,322	14,942	158,740	78
Ayakulik River	5/24	9/9	4,066	261,141	17,016	20,428	101
Dog Salmon Creek[bc]	5/25	8/22	83	180,603	115	21,343	2,607
Frazer Lake fish pass[c]	6/10	9/8	27	134,642	0	7	0
Upper Station River (Olga River)	5/20	9/16	0	130,652	6,317	21,585	1
Litnik (Afognak River)	5/14	8/20	0	49,193	2,700	4,241	4
Buskin River	5/28	9/14	0	11,982	3,389	9,572	30
Lake Louise[d]	5/24	9/12	0	360	52	2,261	0
Saltery River	6/19	8/10	1	30,768	0	5,135	0
Big Bay Creek	8/5	9/7	0	350	899	1,651	0
Pasagshak River	6/13	8/16	0	13,402	0	113	26
Totals			7,570	949,812	45,378	242,808	2,847

[a] Counts include estimates of escapement after weirs were removed.

[b] Since sockeye salmon that pass Dog Salmon weir that fail to get counted at Frazer Lake fish pass may not 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.

[c] Salmon counted at the Frazer Lake fish pass were initially counted at the Dog Salmon weir, and all species except sockeye salmon are not included in totals.

[d] 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.

Table 5.–Indexed salmon escapements, by species, in the Kodiak Management Area, 1979–2011.

	Number of Salmon					
Year	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 [a]	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
2011	7,820	1,014,840	83,812	2,780,214	422,130	4,308,816

-continued-

Table 5.–Page 2 of 2.

Average–Previous 10 Years:						
2001–2010	14,329	1,381,792	112,094	5,006,407	414,561	6,929,183
Odd Years Only				4,043,350		
Even Years Only				5,969,464		
Average–Previous Decades:						
1990–1999	24,802	1,923,221	209,979	5,011,192	522,913	7,692,107
1980–1989	18,403	1,838,884	117,699	5,014,979	799,879	7,789,845
Average–Overall:						
1979–2010	19,411	1,706,195	144,635	4,934,303	589,858	7,394,400

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

[a] 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, 1882–2011.

Year	Number of Salmon[a]					
	Chinook	Sockeye	Coho	Pink	Chum	Total
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	215382	-	2,215,988
1911	689	2,685,949	21870	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	2673675	212,492	4,674,095
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

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Table 6.–Page 2 of 3.

Year	Number of Salmon[a]					
	Chinook	Sockeye	Coho	Pink	Chum	Total
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	54308	6737817	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
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	2942801	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

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Table 6.–Page 3 of 3.

Year	Number of Salmon[a]					
	Chinook	Sockeye	Coho	Pink	Chum	Total
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[b]	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
Averages[b]						
2001-2010	18,138	2,431,652	389,496	20,534,551	886,441	24,260,279
Even Years, 2000-2008				17,823,051		
Odd Years, 2001-2009				23,246,051		
1882-2010	5,357	1,821,274	136,865	7,769,730	554,299	10,286,291
1949-2010	8,182	1,654,088	173,422	10,910,567	812,616	13,558,875
Even Years, 1950-2010				10,505,962		
Odd Years, 1949-2009				11,328,659		

Source: 1882–1947 data are from processors case pack information. 1948–2011 data are from ADF&G fish ticket summaries and are considered more accurate than previous data.

[a] Harvest numbers include cost recovery harvest, but do not include subsistence or test fishery catches or commercially caught fish retained for personal use.

[b] 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, 1980–2011.

	Purse Seine		Beach Seine		Set Gillnet		Total		
Year	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[a]	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[b]	374	128	31	0	188	148	593	276	47
2009[b]	374	157	31	1	188	132	593	290	49
2010[b]	374	155	31	2	188	158	593	315	53
2011	376	175	31	7	188	157	595	339	57
Average–Previous 10 Years:									
2001-2010	377	146	32	1	188	150	597	297	50
Average–Previous Decades:									
1990–1999	386	292	36	9	189	176	611	476	75
1980–1988[a]	385	317	35	24	188	172	608	513	85
Average[a]–Overall:									
1975-2010	383	249	34	11	188	166	605	425	70

Source: Commercial Fisheries Entry Commission Summary Information and Reports (CFEC 2010) and ADF&G fish ticket summaries.

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

[b] From 2008 through 2010, a provision allowing set gillnet permit holders to fish two 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, 2011.

Management Plan	Year Initiated	Management Units Affected	Dates in Effect
Cape Igvak Salmon	1978	Cape Igvak Section Wide Bay Section	6/5–7/25
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
North Shelikof Strait Sockeye Salmon	1991	SW Afognak Section NW Afognak Section Shuyak Island Section Big River Section Hallo Bay Section Inner and Outer Kukak Bay Sections Dakavak Bay Section	7/6–7/25
Crescent Lake Coho Salmon	1990	Special Harvest Area in the Central Section near Port Lions	7/15–10/31
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 2011 commercial salmon harvest, by species and fishery, for the Kodiak Management Area.

	Number of Salmon					
	Chinook	Sockeye	Coho	Pink	Chum	Total
Projected Harvest 2011 [a]	20,000	2,053,228	373,047	29,300,000	1,139,577	32,885,852
Actual Harvest 2011 [a]	18,454	2,266,651	188,474	16,642,402	823,202	19,939,183

	2011 Harvest	
FISHERY	Projection [b]	Actual [c]
Early Sockeye Salmon Fisheries (6/1–7/15 except Cape Igvak which is 6/1–26)		
Kitoi Bay Hatchery [d]	46,900	204,980
Cape Igvak [e]	142,343	549,487
Karluk [f]	99,926	169,675
Ayakulik [g]	288,863	27,328
Alitak District [h]	140,424	168,203
Minor Enhancement [i]	43,000	85,083
Spiridon [j]	93,244	125,004
Other [k]	399,970	333,447
Subtotal	1,254,670	1,663,207
Late Sockeye Salmon Fisheries (7/16–10/31except Cape Igvak which is 7/8–25)		
Kitoi Bay Hatchery [d]	20,100	33,552
Cape Igvak [e]	87,036	0
Karluk [f]	139,845	111,170
Ayakulik [g]	123,799	144,962
Alitak District [h]	216,400	150,005
Spiridon [j]	39,962	42,214
Other [k]	171,416	121,541
Subtotal	798,558	603,444
Total Sockeye	2,053,228	2,266,651
Coho Salmon Fisheries		
Kitoi Bay Hatchery [d]	156,000	68,575
Afognak (non-hatchery) [l]	28,002	6,378
Westside Kodiak [m]	107,218	49,749
Alitak District	8,945	6,094
Eastside/Northend Kodiak [n]	52,072	50,748
Mainland District	20,810	6,930
Subtotal	373,047	188,474

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Table 9.–Page 2 of 3.

FISHERY	2011 Harvest Projection [b]	2011 Harvest Actual [c]
Pink Salmon Fisheries		
Kitoi Bay Hatchery [d]	7,400,000	2,171,253
Afognak (non-hatchery) [l]	3,066,000	130,578
Westside Kodiak [m]	5,037,000	784,253
Alitak District [n]	4,818,000	4,896,501
Eastside/Northend Kodiak [n]	8,103,000	8,410,572
Mainland District	876,000	249,245
Subtotal/Wild stock pinks	21,900,000	14,471,149
Subtotal/all pinks	29,300,000	16,642,402
Chum Salmon Fisheries		
Kitoi Bay Hatchery [d]	411,000	320,532
Afognak (non-hatchery) [l]	36,446	31,899
Westside Kodiak [m]	221,945	107,977
Alitak District	52,972	44,699
Eastside/Northend Kodiak [n]	267,112	205,927
Mainland District	150,102	112,168
Subtotal	1,139,577	823,202
Grand Total [o]	32,885,852	19,939,183

[a] In number of salmon. Includes cost recovery harvests, but does not include subsistence, sport, or personal use fisheries.

[b] Projected harvests for enhanced and major sockeye systems are based on formal forecasts for those individual stocks (total run minus escapement); the projected harvest from minor sockeye systems and other salmon species are based on less formal escapement to return relationships, environmental factors, and interspecies competition (Eggers and Carroll, 2011).

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

[d] From the Duck Bay, Izhut Bay, and Inner and Outer Kitoi Bay sections only.

[e] From the Cape Igvak Section. Early run is from the beginning of the season through June 26. Late run is from July 8 through 25.

[f] 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 through July 15 and 100 % after July 31 minus the estimated contribution from the Spiridon SHA. Includes the majority of Karluk sockeye salmon harvest.

[g] From the Outer and Inner Ayakulik sections, plus 50% of Halibut Bay Section from June 21 through July 15 and 100% from July 16 through 31.

[h] From the Alitak District.

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[i] From the Foul Bay, Waterfall Bay, and Settler Cove Special Harvest Areas.

[j] From the Spiridon Bay Special Harvest Area (Telrod Cove), plus an estimate of the Spiridon-bound sockeye contributing to the Westside Kodiak fishery.

[k] 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 (Swishak), and Outer Kukak Bay (Kaflia and Kuliuk) sections and migrating fish of undetermined origin.

[l] From the Afognak District except the Duck, Izhut, and Inner and Outer Kitoi Bay sections.

[m] From the Southwest Kodiak District (all 255s and 256s) and the Northwest Kodiak District (all 253s and 254s), except for the North Cape, Anton Larson, Sharatin, and Kizhuyak sections and part of the Central Section (259-30 to 259-39).

[n] From the Eastside Kodiak District (all 258s, and 259-40 to 259-42), Northeast Kodiak District (259-21 to 259-25, 259-10), and the North Cape, Anton Larson, Sharatin and Kizhuyak sections, plus part of the Central Section (259-30 to 259-39)

[o] Includes the projected 2011 harvest of 20,000 Chinook salmon, the actual harvest of 18,454 Chinook salmon.

Table 10.–Commercial salmon buyers and processing plants active in the Kodiak Management Area, by geographic area and type, 2011.

	Shore-based Processors			Floating Processors		
Buyers/Processors	Kodiak City	Kodiak Borough	Other Areas	Kodiak City	Kodiak Borough	Other Areas
Icicle Seafoods		X				
Alaska Pacific Seafoods	X					
International Seafoods of Alaska	X					
Western Alaska Seafoods	X					
Ocean Beauty Seafoods Kodiak	X					
Trident Seafoods	X					
Ocean Beauty Seafoods Alitak		X				
Alaska Fresh Seafoods	X					
Sun'aq Tribe	X					
Kodiak Island Smokehouse	X					
Island Seafoods	X					
Samuel Haugey					X	
Richard Blanc					X	
Peterson F/V Raven				X		
Lacey Berns				X		
David Mann F/V Alchemist						X
William Pierszalowski F/V Shawnee				X		
Mark Gladu F/V Salmon Bay				X		
Al Cratty F/V Ashlee Christine C					X	
Totals	9	2		4	3	1

Table 11.–Commercial salmon harvest and value, by gear and species, in the Kodiak Management Area, 2011.

	Number of Salmon						
	Chinook	Sockeye	Coho	Pink	Chum	Total	%
Purse Seine							
Total # [a]	16,085	1,808,056	141,724	14,612,231	703,257	17,281,353	94.8
Avg. Wt.	9.33	6.01	6.64	3.21	6.73		
Total Lbs. [a]	150,151	10,865,056	941,148	46,921,683	4,734,975	63,613,013	93.1
Avg. $/Lb. [b]	$ 1.15	$ 1.51	$ 0.64	$ 0.41	$ 0.60		
Exvessel $	$172,673.65	$16,406,234.56	$603,275.87	$19,237,890.03	$2,840,985.00	$39,261,059.11	88.7
# of Permits = 175							
Average Value $	$986.71	$93,749.91	$3,447.29	$109,930.80	$16,234.20	$224,348.91	
Percent %	0.4	41.8	1.5	49.0	7.2	100.0	
Beach Seine							
Total # [a]	32	6,994	21	22,920	95	30,062	0.2
Avg. Wt.	13.69	5.43	5.95	3.18	6.91		
Total Lbs. [a]	438	37,981	125	72,823	656	112,023	0.2
Avg. $/Lb. [b]	$1.22	$1.59	$0.64	$0.46	$0.76		
Exvessel $	$534.36	$60,389.79	$80.00	$33,498.58	$498.56	$95,001.29	0.2
# of Permits = 7							
Average Value $	$76.34	$8,627.11	$11.43	$4,785.51	$71.22	$13,571.61	
Percent %	0.6	63.6	0.1	35.3	0.5	100.0	
Set Gillnet							
Total # [a]	2,337	419,548	39,241	365,078	91,303	917,507	5.0
Avg. Wt.	9.61	5.60	6.82	3.67	7.17		
Total Lbs. [a]	22,460	2,348,010	267,473	1,339,267	654,658	4,631,868	6.8
Avg. $/Lb. [b]	$1.96	$1.56	$0.76	$0.41	$0.66		
Exvessel $	$44,021.60	$3,662,895.60	$203,279.48	$549,099.47	$432,074.28	$4,891,370.43	11.1
# of Permits = 157							
Average Value $	$280.39	$23,330.55	$1,294.77	$3,497.45	$2,752.07	$31,155.23	
Percent %	0.9	74.9	4.2	11.2	8.8	100.0	
Total All Gear							
Total # [a]	18,454	2,234,598	180,986	15,000,229	794,655	18,228,922	100.0
Avg. Wt.	9.38	5.93	6.68	3.22	6.78		
Total Lbs. [a]	173,049	13,251,047	1,208,746	48,333,773	5,390,289	68,356,904	100.0
Avg. $/Lb. [b]	$1.22	$1.52	$0.66	$0.41	$0.61		
Exvessel $	$217,229.61	$20,129,519.95	$806,635.35	$19,820,488.08	$3,273,557.84	$44,247,430.83	100.0
% of Total Value	0.5	45.5	1.8	44.8	7.4	100.0	

[a] Numbers and pounds of fish are derived from ADF&G fish ticket summaries. There were 8,139 fish tickets generated in 2011; each ticket represents a landing. Each gear type had the following landings: Purse Seine – 4,720; Beach Seine – 66; Set Gillnet – 3,353. Numbers do not include cost recovery, commercially-harvested salmon retained, but not sold, or subsistence, or sport fishery harvests.

[b] Average price per pound figures 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, 1975–2011.

Year	Total Catch [a]	Total Value [b]	Average Exvessel Value [c]		
			Purse Seine	Gillnet	Beach Seine
1975	3,187,410	$3,831,000	$13,300	$3,849	$5,600
1976	12,484,451	$16,976,000	$43,017	$14,481	$11,035
1977	7,976,691	$18,873,142	$46,942	$19,117	$12,107
1978	16,942,215	$30,357,179	$70,685	$22,711	$14,772
1979	12,420,260	$22,958,317	$51,263	$23,363	$20,348
1980	19,157,249	$27,410,296	$62,363	$21,215	$23,385
1981	13,094,099	$32,647,230	$79,877	$34,785	$26,946
1982	10,891,952	$18,803,822	$39,309	$28,889	$11,038
1983	7,081,976	$13,405,578	$30,239	$16,689	$5,918
1984	13,678,005	$25,948,012	$71,560	$26,552	$12,341
1985	9,897,903	$20,428,111	$57,782	$27,517	$8,405
1986	16,304,165	$38,723,961	$92,693	$68,700	$11,885
1987	7,746,980	$31,107,864	$79,812	$41,163	$15,664
1988	19,009,757	$103,816,936	$252,388	$119,013	$47,017
1989 [d]	26,455,944	$61,046,024	$146,502	$72,955	$28,288
1990	12,121,689	$52,761,885	$111,524	$71,015	$10,277
1991	23,721,741	$31,484,142	$65,445	$46,663	$4,518
1992	8,461,325	$40,464,655	$97,917	$42,133	$5,414
1993	39,339,737	$38,729,798	$95,375	$44,055	$8,276
1994	12,097,170	$27,469,284	$67,701	$47,690	$9,447
1995	49,186,147	$53,912,881	$135,605	$66,413	$14,337
1996	9,214,520	$27,528,528	$70,737	$52,608	$2,947
1997	14,458,296	$21,148,836	$55,390	$38,213	$8,571
1998	26,444,087	$34,847,388	$119,512	$52,082	–[e]
1999	17,776,604	$34,084,142	$109,243	$57,927	$7,308
2000	14,372,182	$22,103,837	$71,536	$35,386	–[e]
2001	23,710,148	$18,898,115	$78,114	$27,218	$0
2002	21,314,421	$12,651,332	$68,552	$26,206	$0
2003	18,030,034	$16,307,461	$79,869	$30,349	$0
2004	25,359,691	$19,260,231	$93,942	$37,246	$0
2005	31,434,179	$24,067,755	$129,181	$40,172	$0
2006	32,595,862	$23,788,440	$150,318	$27,740	–[e]
2007	26,238,930	$27,224,796	$148,355	$41,058	$3,484
2008	10,127,638	$25,415,333	$148,605	$43,202	$0
2009	28,338,462	$33,713,563	$174,661	$47,593	–[e]
2010	10,291,449	$24,267,934	$130,009	$25,720	–[e]
2011	18,228,922	$44,247,431	$224,349	$31,155	$13,572
Average–Previous 10 Years:					
2001–2010	22,744,081	$22,559,496	$120,161	$34,650	$498
Average [f] - Previous Decades:					
1990–1999	21,282,132	$36,243,154	$92,845	$51,880	$7,899
1980–1988	12,984,676	$34,699,090	$85,114	$42,725	$18,067
Average [f]–Overall					
1975–2010	17,843,069	$29,011,937	$91,223	$39,107	$10,035

-continued-

Source: ADF&G Annual Management Reports and Commercial Fisheries Entry Commission reports.

[a] Number of fish. Includes commercial harvest that was sold, but not that set aside for personal use or test fishery harvest, and cost recovery harvests.

[b] Exvessel values for 1975–1976 and 2001–2011 are based on inseason price estimates, and do not include postseason adjustments. Values from 1977–1988 and 1990–2000 are from Commercial Fisheries Entry Commission reports.

[c] Exvessel value is based on fish ticket information. These average values do not reflect payments made to harvesters for iced fish, dock deliveries, and postseason settlements.

[d] In 1989, due to the presence of oil from the M/V Exxon Valdez spill, there were extensive fishery closures. Harvest figures include actual and projected harvest of wild stocks and actual harvest of hatchery stocks from a supplemental cost recovery fishery. The 1989 exvessel value is estimated by multiplying price information from CFEC records for the limited fisheries that did occur by the projected total harvest had there been no oil spill. The 1989 exvessel value by gear type is estimated by using 1988 gear levels and proportional harvest by gear type, as if a normal fishery had occurred on a normal distribution of fish (Barrett et al. 1990).

[e] Confidential data.

[f] 1989 data not included in averages.

Table 13.–Subsistence salmon fishery harvest from ADF&G permit reports, by species, for the Kodiak Management Area, 1978–2010.

Year	Permits Issued	Permits Returned	Percent Returned	Number of Salmon					
				Chinook	Sockeye	Coho	Pink	Chum	Total
1978	860	539	63	50	7,239	3,699	2,747	572	14,307
1979	1,085	697	64	111	10,376	3,840	3,300	333	17,960
1980	1,239	756	61	67	13,746	4,407	2,755	566	21,541
1981	1,166	658	56	49	12,924	4,029	2,458	484	19,944
1982	1,276	993	78	110	16,615	7,192	3,558	667	28,142
1983	1,307	1,082	83	111	15,526	6,283	2,536	800	25,256
1984	1,240	1,061	86	265	17,620	5,808	1,877	720	26,290
1985	1,476	1,196	81	172	16,231	8,873	2,756	855	28,887
1986	1,244	996	80	90	14,391	6,998	2,371	605	24,455
1987	1,124	878	78	101	13,198	6,463	2,421	1,299	23,482
1988	-[a]	2,066	-	108	10,081	4,291	1,320	371	16,171
1989	-[a,b]	1,994	-	43	12,638	4,123	1,553	419	18,776
1990	-[a]	2,340	-	131	17,959	8,627	1,605	655	28,977
1991	-[a]	2,660	-	177	21,835	8,208	1,743	714	32,677
1992	-[a]	2,614	-	318	20,684	8,643	1,646	643	31,934
1993	-[a]	1,774	-	243	19,471	7,176	2,696	838	30,424
1994 [c]	2,550	1,518	60	205	17,962	7,491	1,758	440	27,856
1995 [c]	1,950	1,218	62	175	19,416	5,603	1,548	293	27,035
1996 [c]	1,567	1,429	91	253	28,287	5,117	1,125	381	35,163
1997 [c]	2,098	1,648	79	383	33,293	6,369	1,458	234	41,737
1998 [c]	1,845	1,145	62	350	20,459	5,348	1,412	214	27,783
1999 [c]	1,845	1,437	78	397	26,534	4,974	1,229	388	33,522
2000 [c]	1,711	1,679	98	351	31,667	6,383	977	375	39,753
2001 [c]	2,378	2,009	84	273	33,878	5,920	1,158	427	41,656
2002 [c]	2,277	2,068	91	588	33,844	6,175	1,665	350	42,622
2003 [c]	2,272	2,052	90	510	32,193	6,098	1,509	388	40,698
2004 [c]	2,241	2,063	92	379	30,503	5,857	1,403	261	38,403
2005 [c]	2,290	1,958	86	434	27,664	7,703	2,350	592	38,743
2006 [c]	2,095	1,911	91	280	22,985	6,640	1,827	441	32,173
2007 [c]	2,096	1,929	92	207	25,656	4,715	1,585	266	32,429
2008 [c]	2,037	1,745	86	159	21,852	4,570	1,180	186	27,947
2009 [c]	1,926	1,780	92	176	23,114	4,127	1,926	345	29,688
2010 [c]	2,022	1,895	94	158	22,170	4,200	1,266	273	28,067
Recent 10–year Average									
2001-2010	2,163	1,941	90	316	27,386	5,601	1,587	353	35,243
species compositon by percent				1%	78%	16%	5%	1%	100%
Averages [b]–Previous Decades:									
1990–1999	1,976	1,778	90	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
Average [b]–Overall									
1978–2010	1,749	1,556	80	231	21,230	5,995	1,911	499	29,866

Source: 1981 and 1986 to 2010 data is from the ADF&G subsistence permit database. Data from all other years is from Area Management Reports (AMRs). In some cases, AMRs may show slightly higher harvests than the permit database, likely due to late permits that may not have been entered into the system. The harvest information is only from those permits that were returned, so may not represent the total KMA subsistence salmon harvest.

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[a] 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.

[b] In 1989 harvest patterns were unusual due to the M/V Exxon Valdez oil spill. 1989 data is not included in averages. There was also an Exxon-sponsored subsistence fishery in Karluk Lagoon, and those harvests are not included. Harvest totaled an additional 1 Chinook, 13,329 sockeye, 523 coho, 47 pink, and 19 chum salmon.

[c] 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, 1997–2011.

Year	Permits	Landings	Number of Salmon [a]					
			Chinook	Sockeye	Coho	Pink	Chum	Total
1997	10	10	7	678	91	6	2	784
1998	4	5	8	26	9	0	0	43
1999[b]								
2000[b]								
2001	9	14	16	465	1,215	0	33	1,729
2002	33	56	57	5,447	7,542	566	0	13,612
2003[c]	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	32	49	805	2,726	883	6	4,469
2010	42	74	160	2,330	2,976	6,267	15	11,748
2011	57	117	161	1,314	2,009	6,390	67	9,941
10–year Average:								
2001–2010	24	46	62	3,309	3,186	1,723	30	8,309

Source: ADF&G fish ticket data base

[a] This is the number of salmon taken by 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.

[b] Confidential data.

[c] 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).

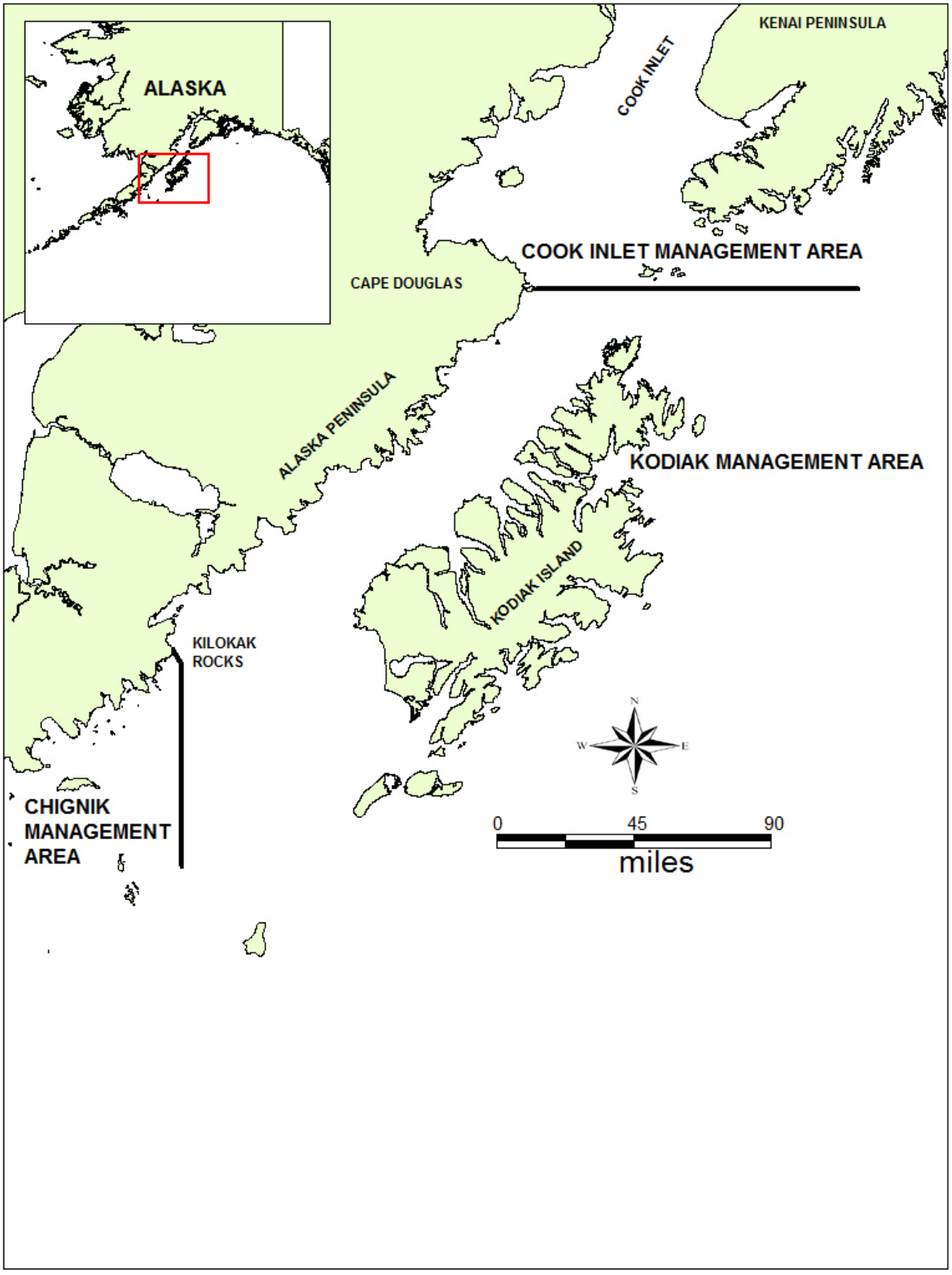


Figure 1.–Map of the Kodiak Management Area and neighboring management areas, 2011.

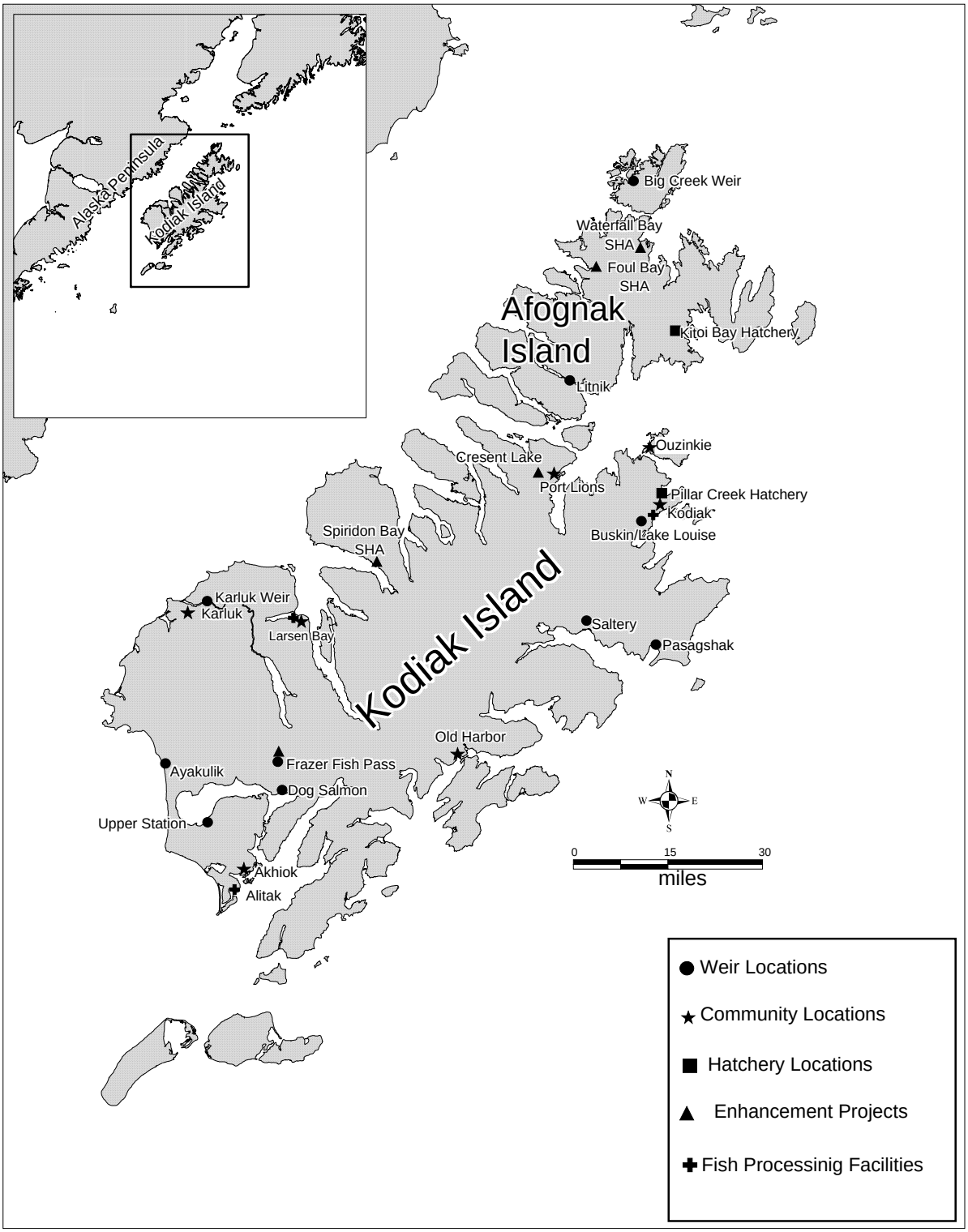


Figure 2.–Map of the Kodiak Archipelago showing communities, fish processing facilities, sockeye salmon enhancement projects, weir, and hatchery locations in the Kodiak Management Area, 2011.

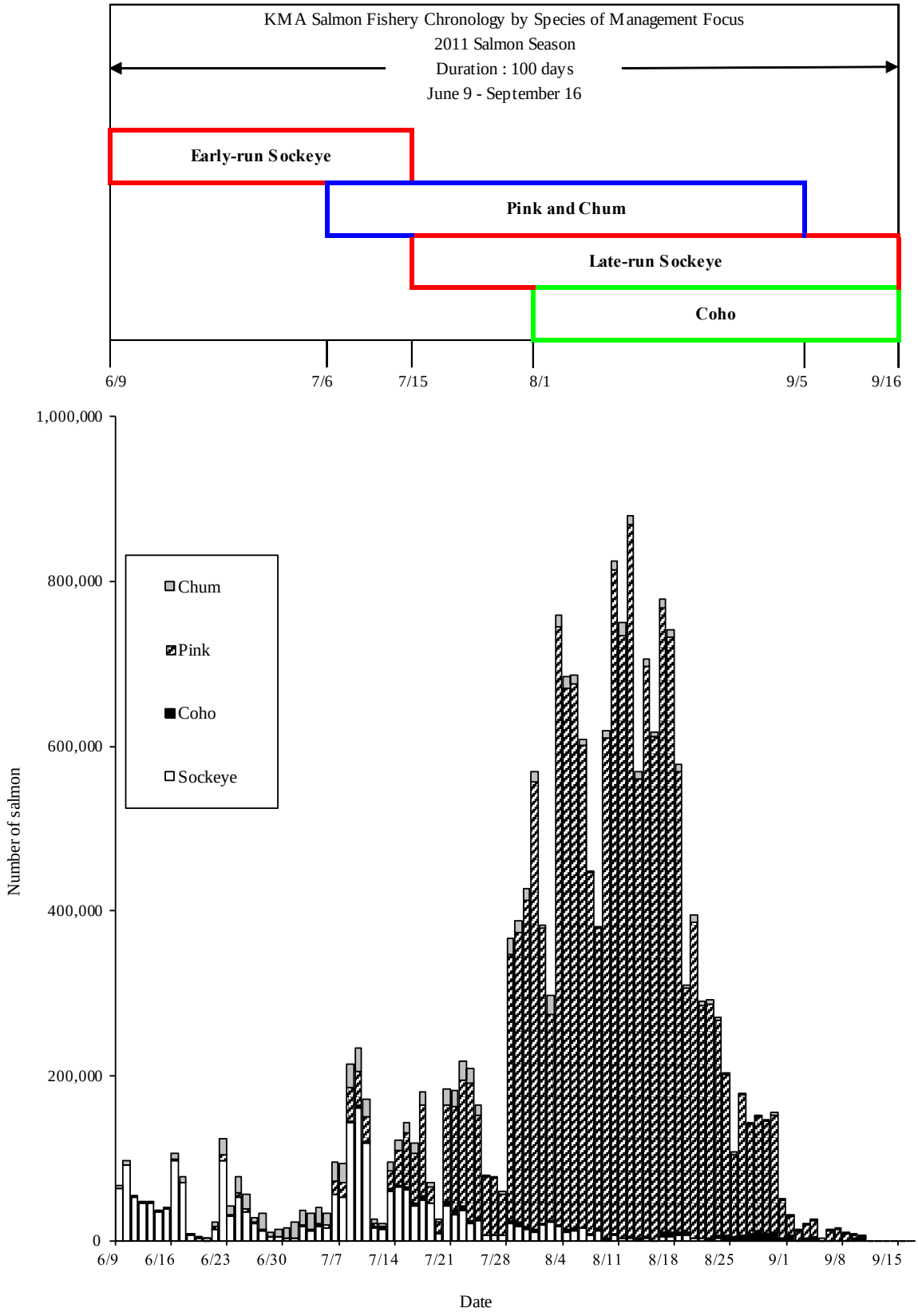
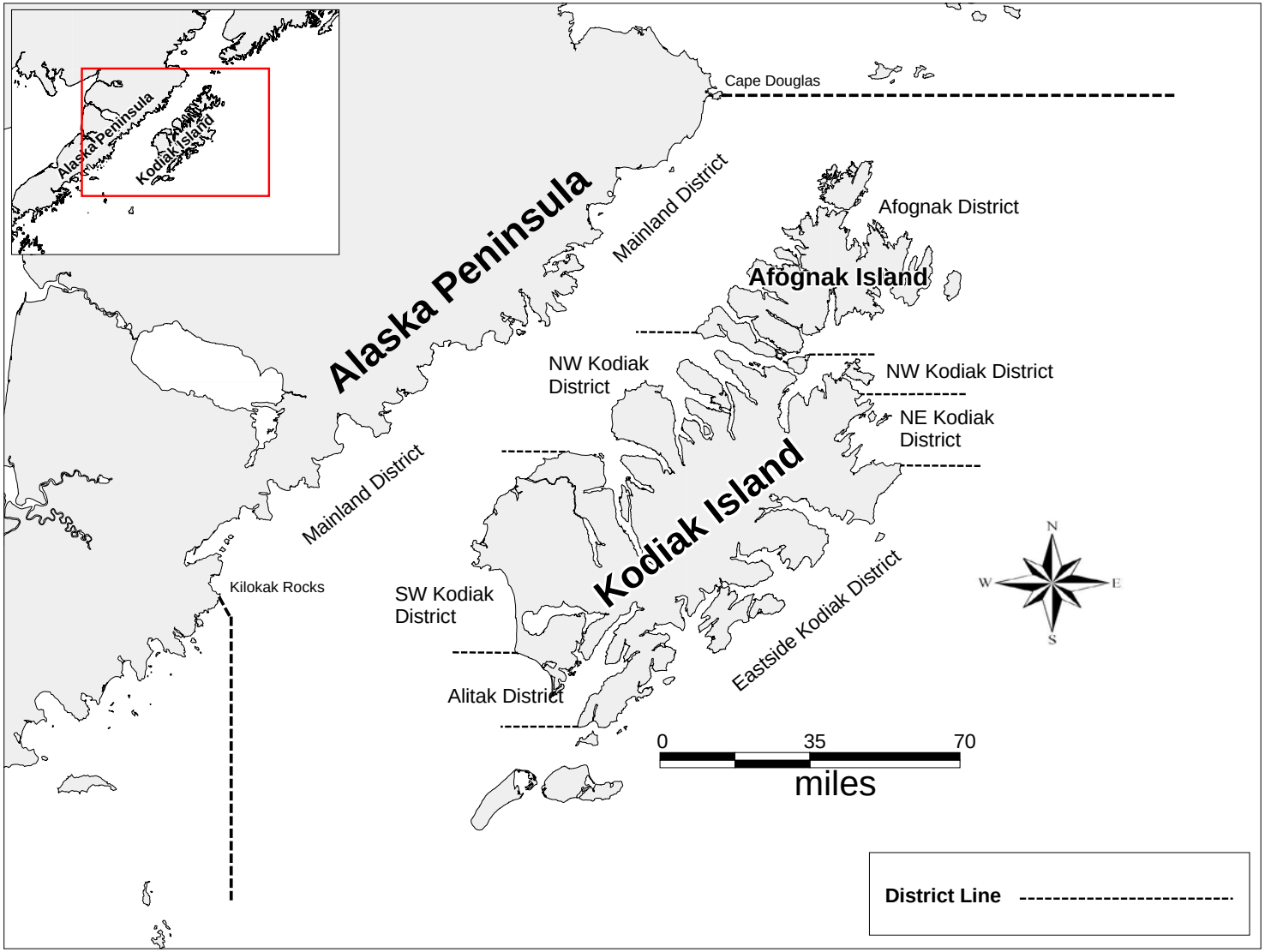
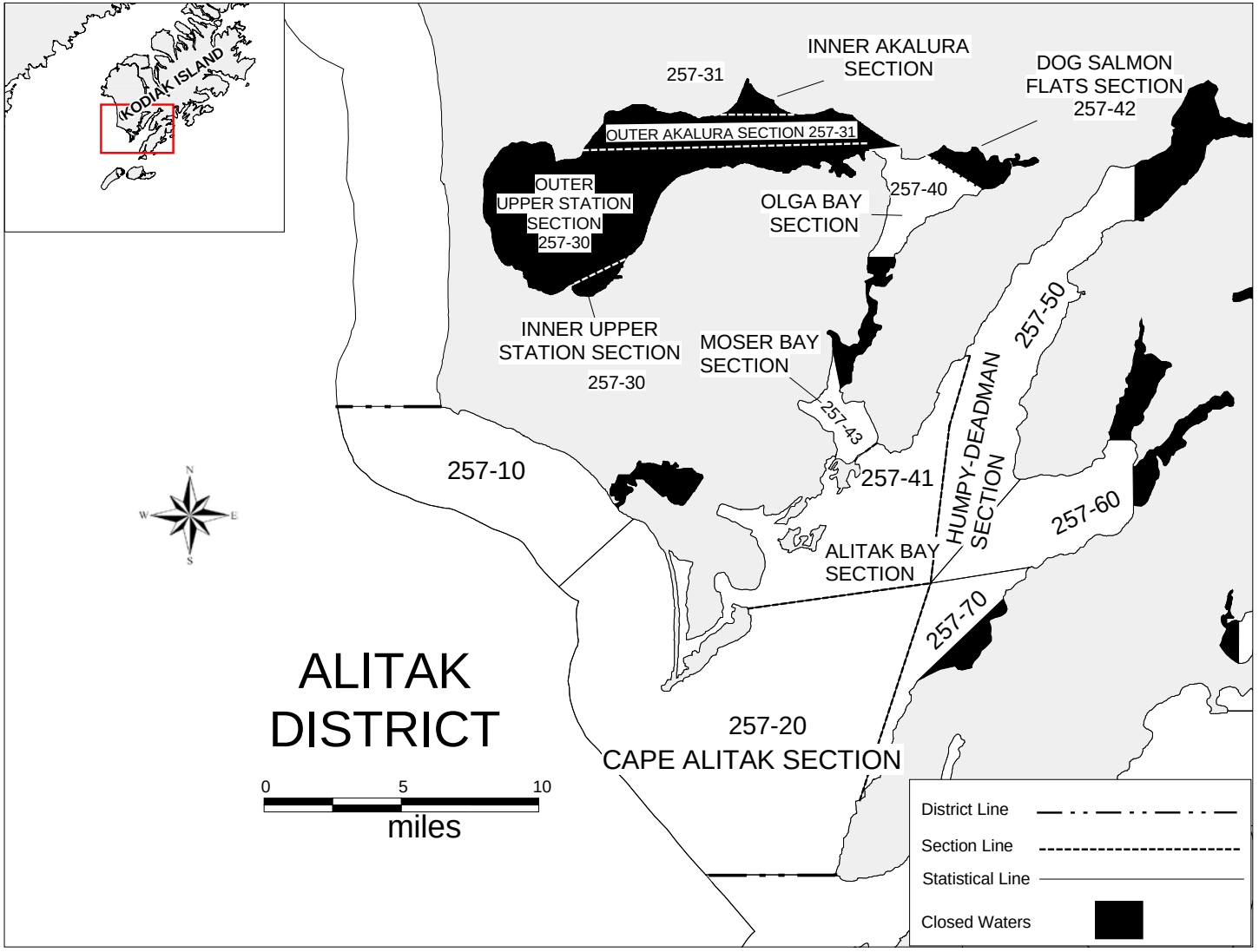


Figure 3.–Commercial salmon fishery chronology and daily harvest by date and species of management focus, Kodiak Management Area, 2011.

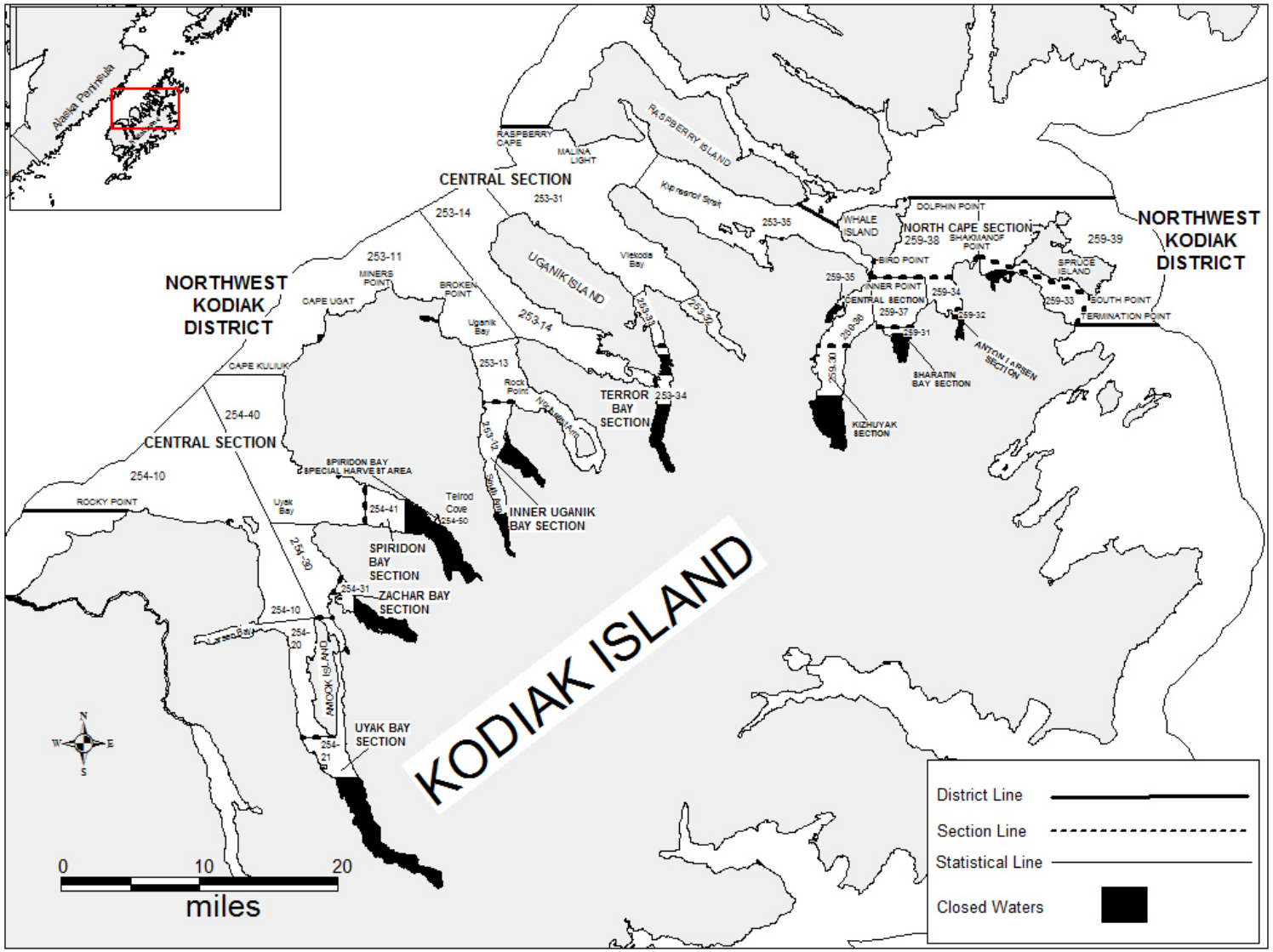
APPENDIX A. MAPS OF FISHING DISTRICTS



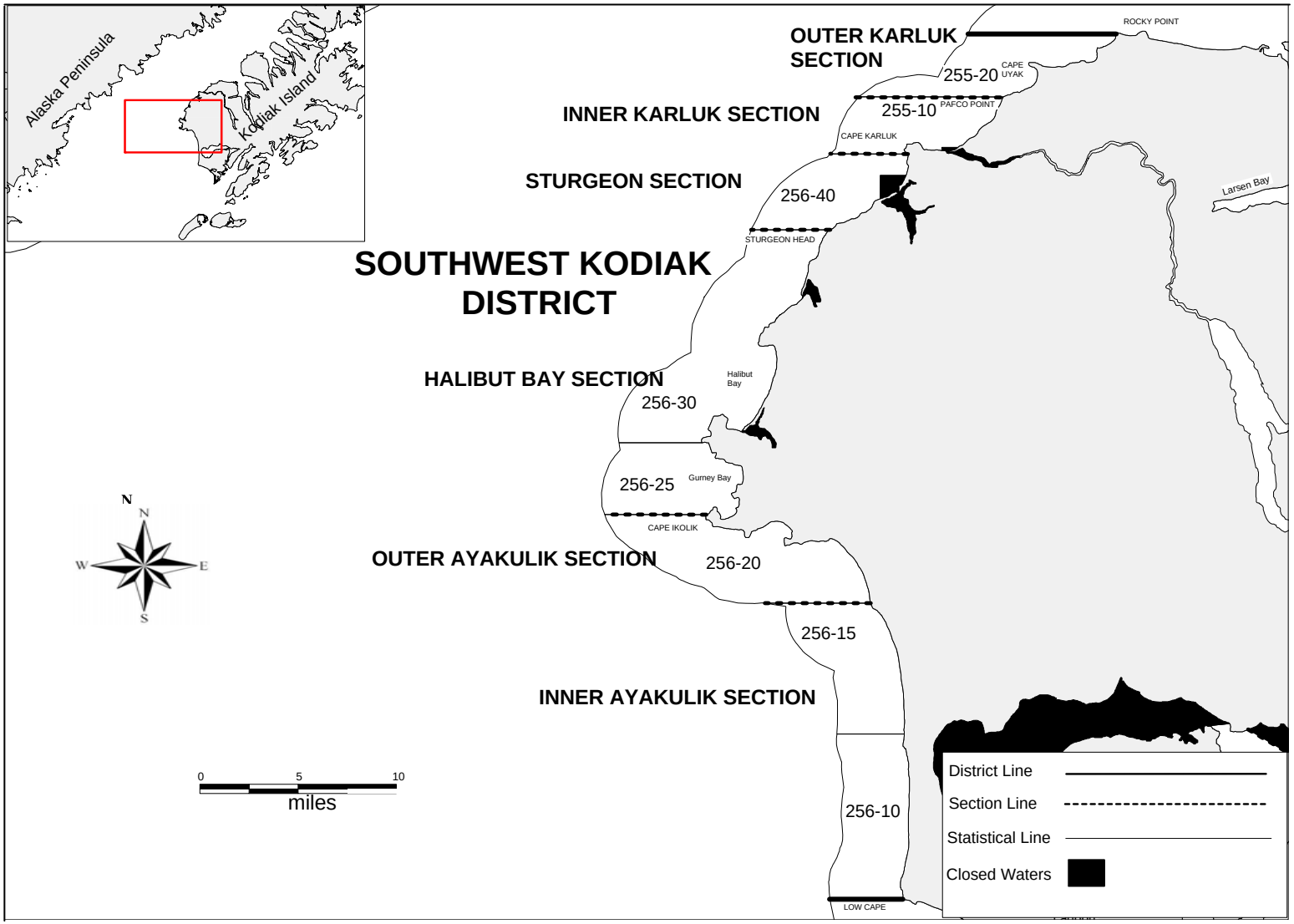
Appendix A1.–Map of the Kodiak Management Area commercial salmon fishing districts.



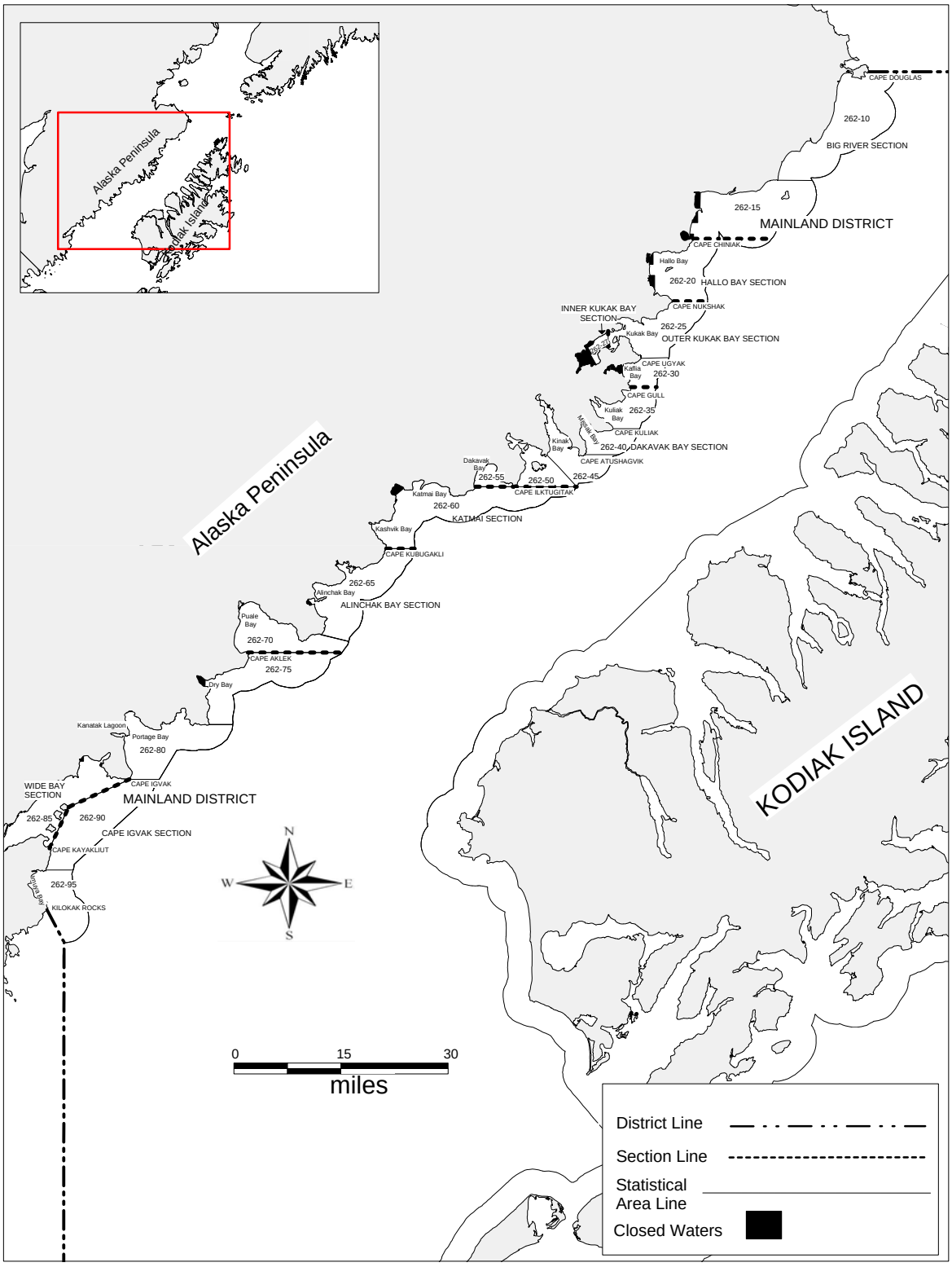
Appendix A2.–Map of the Alitak District commercial salmon fishing sections and statistical areas.



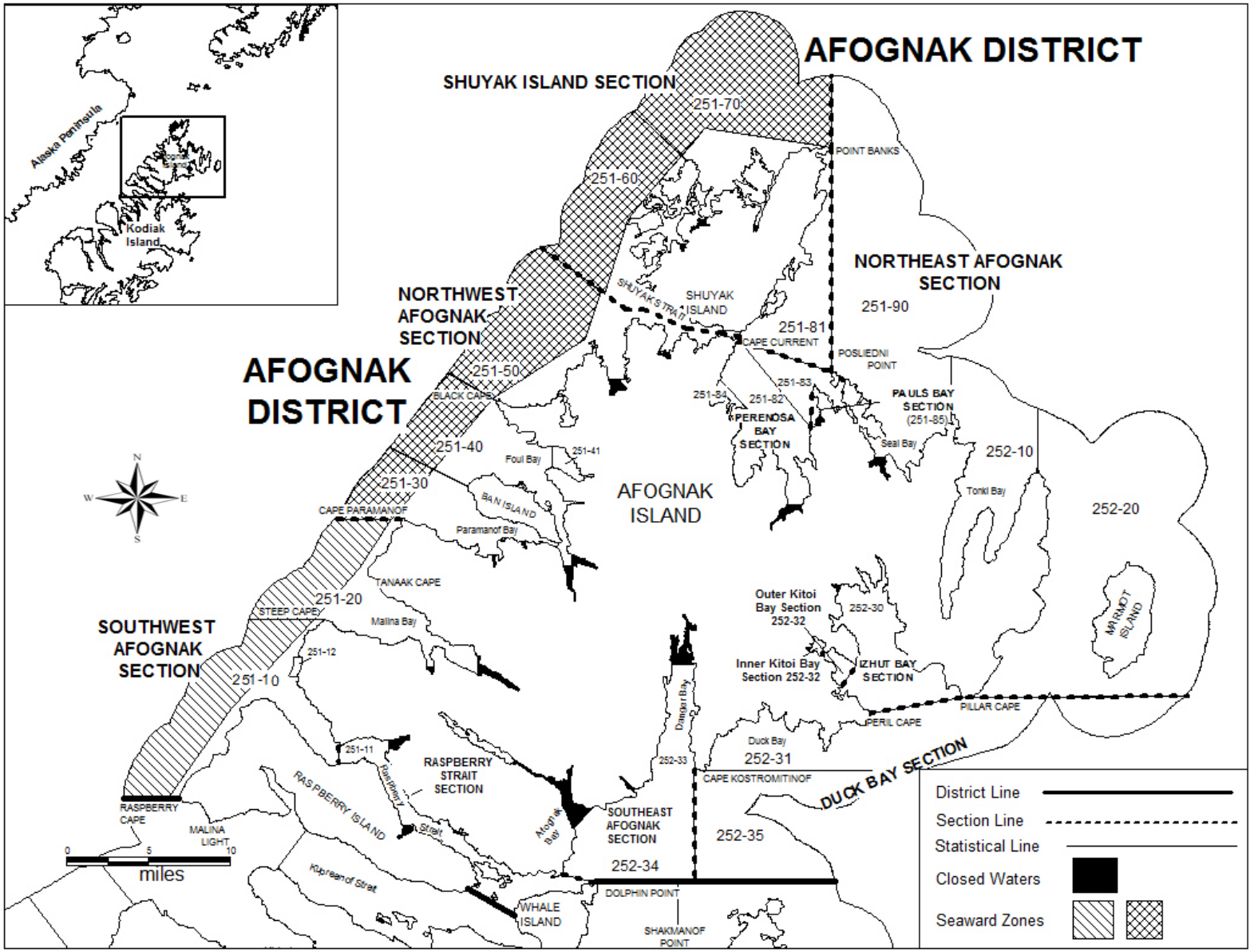
Appendix A3.–Map of the Northwest Kodiak District commercial salmon fishing sections and statistical areas.



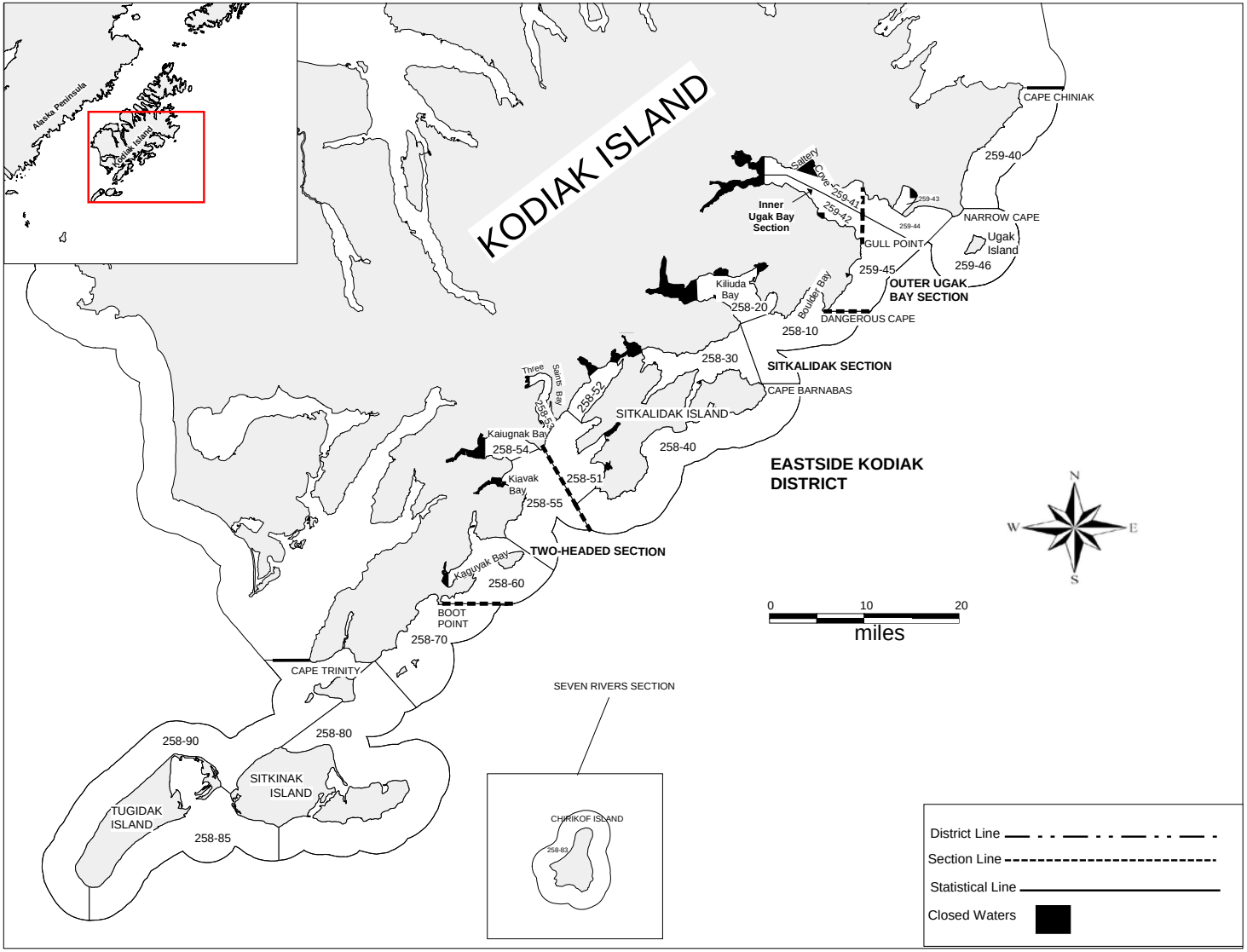
Appendix A4.–Map of the Southwest Kodiak District commercial salmon fishing sections and statistical areas.



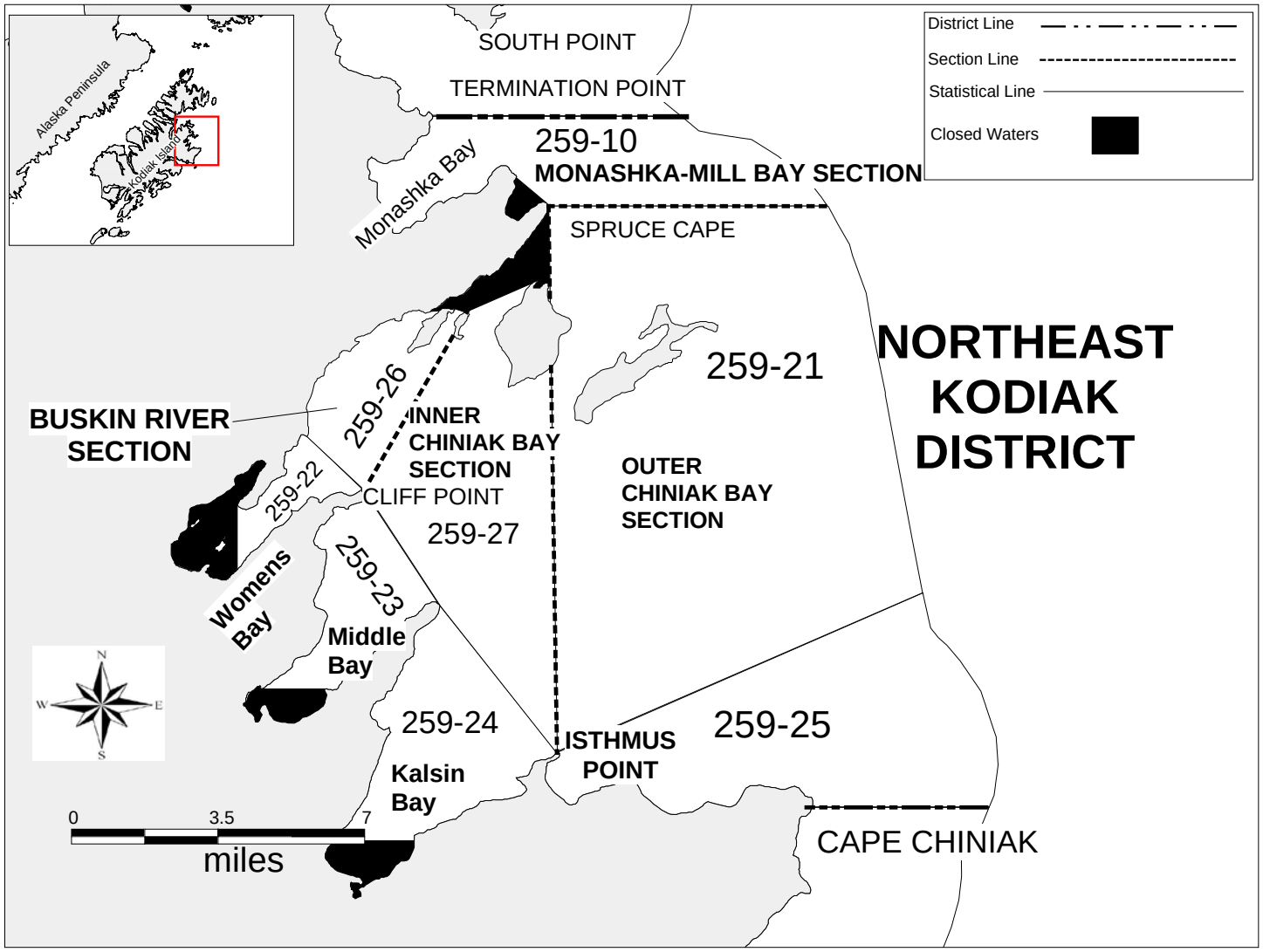
Appendix A5.–Map of the Mainland District commercial salmon fishing sections and statistical areas.



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



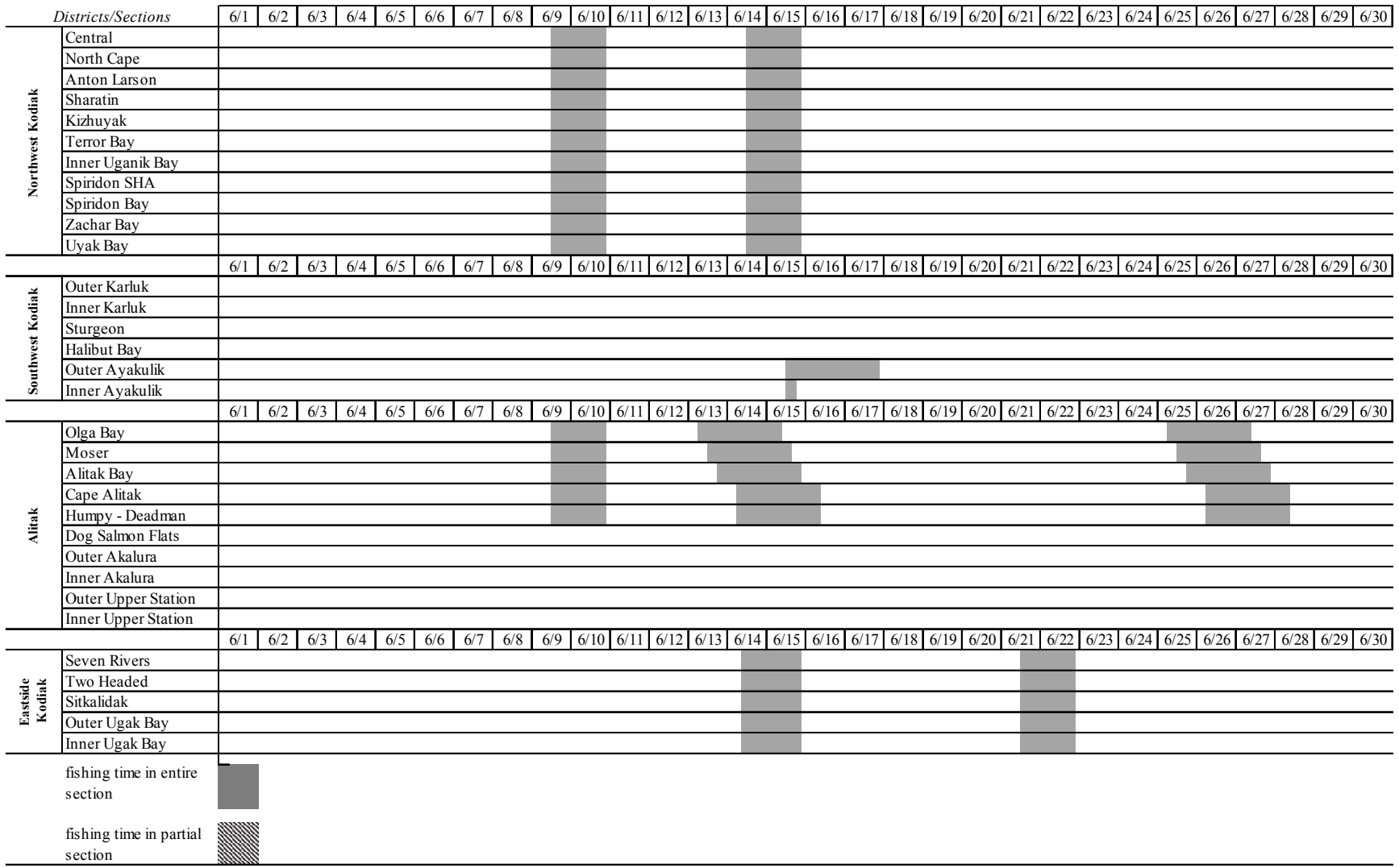
Appendix A7.–Map of the Eastside Kodiak District commercial salmon fishing sections and statistical areas.



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, 2011.



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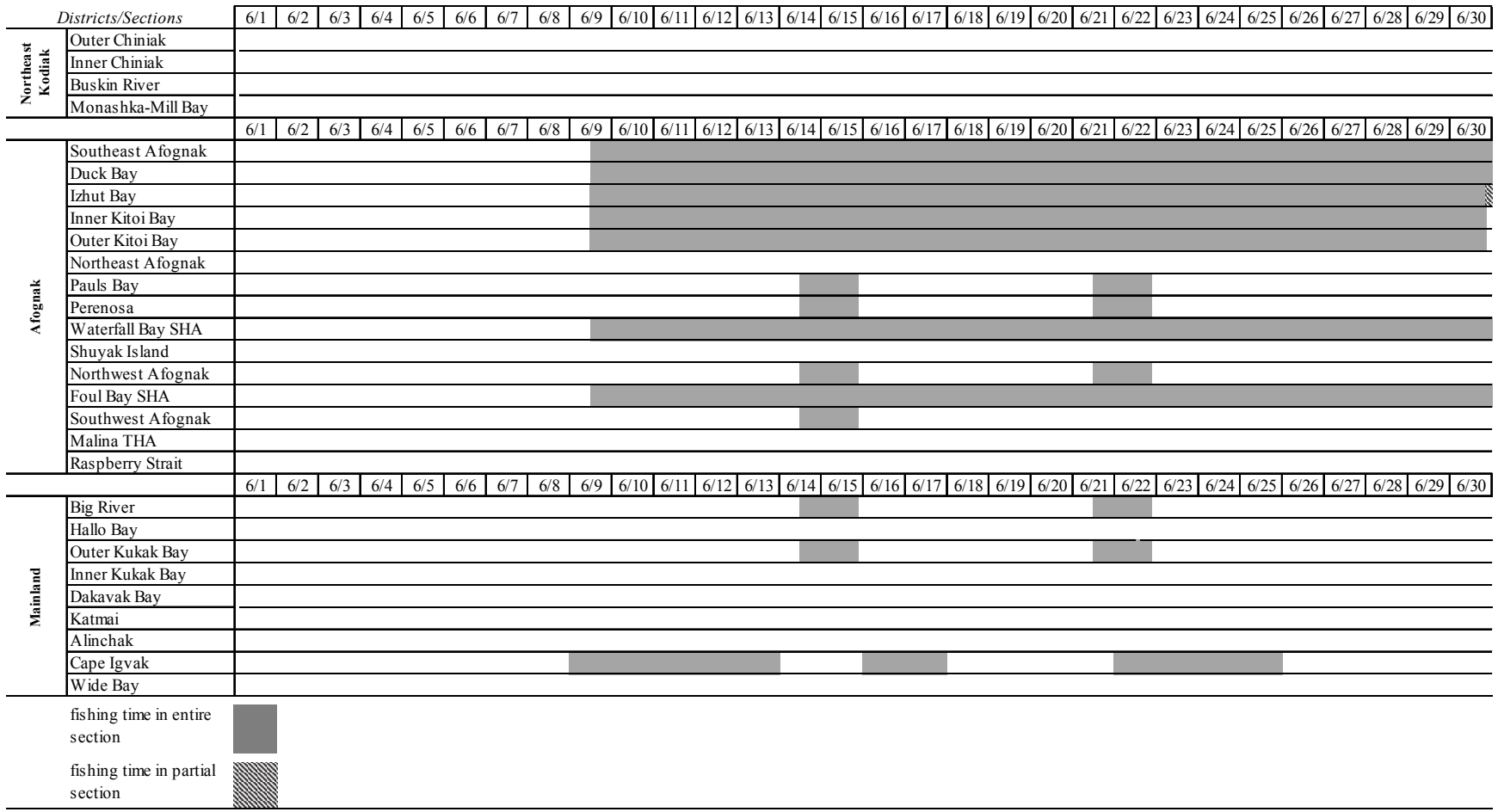
Appendix B1.–Page 2 of 8.



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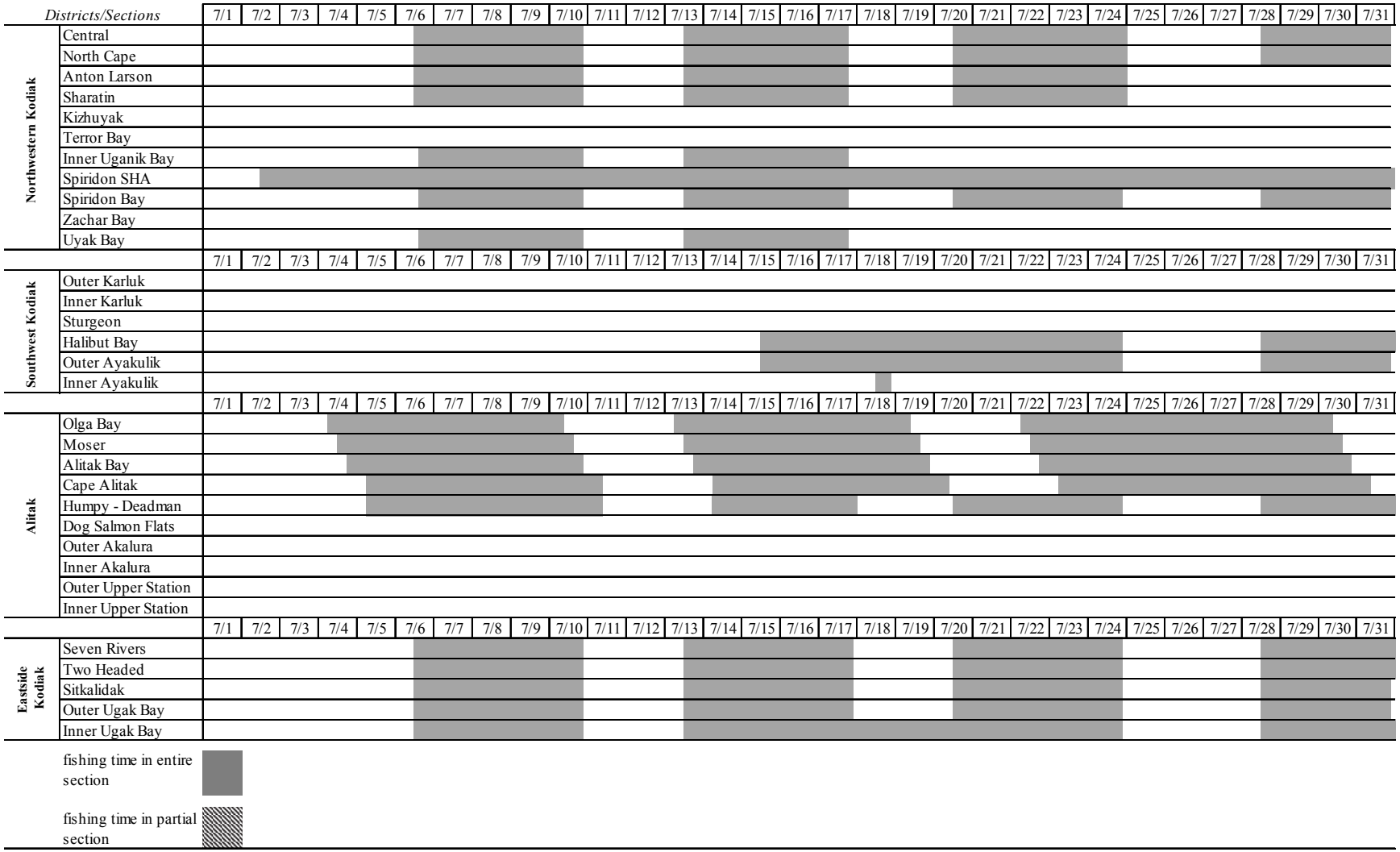
Districts/Sections
7/1 7/2 7/3 7/4 7/5 7/6 7/7 7/8 7/9 7/10 7/11 7/12 7/13 7/14 7/15 7/16 7/17 7/18 7/19 7/20 7/21 7/22 7/23 7/24 7/25 7/26 7/27 7/28 7/29 7/30 7/31
Northwestern Kodiak
Central
North Cape
Anton Larson
Sharatin
Kizhuyak
Terror Bay
Inner Uganik Bay
Spiridon SHA
Spiridon Bay
Zachar Bay
Uyak 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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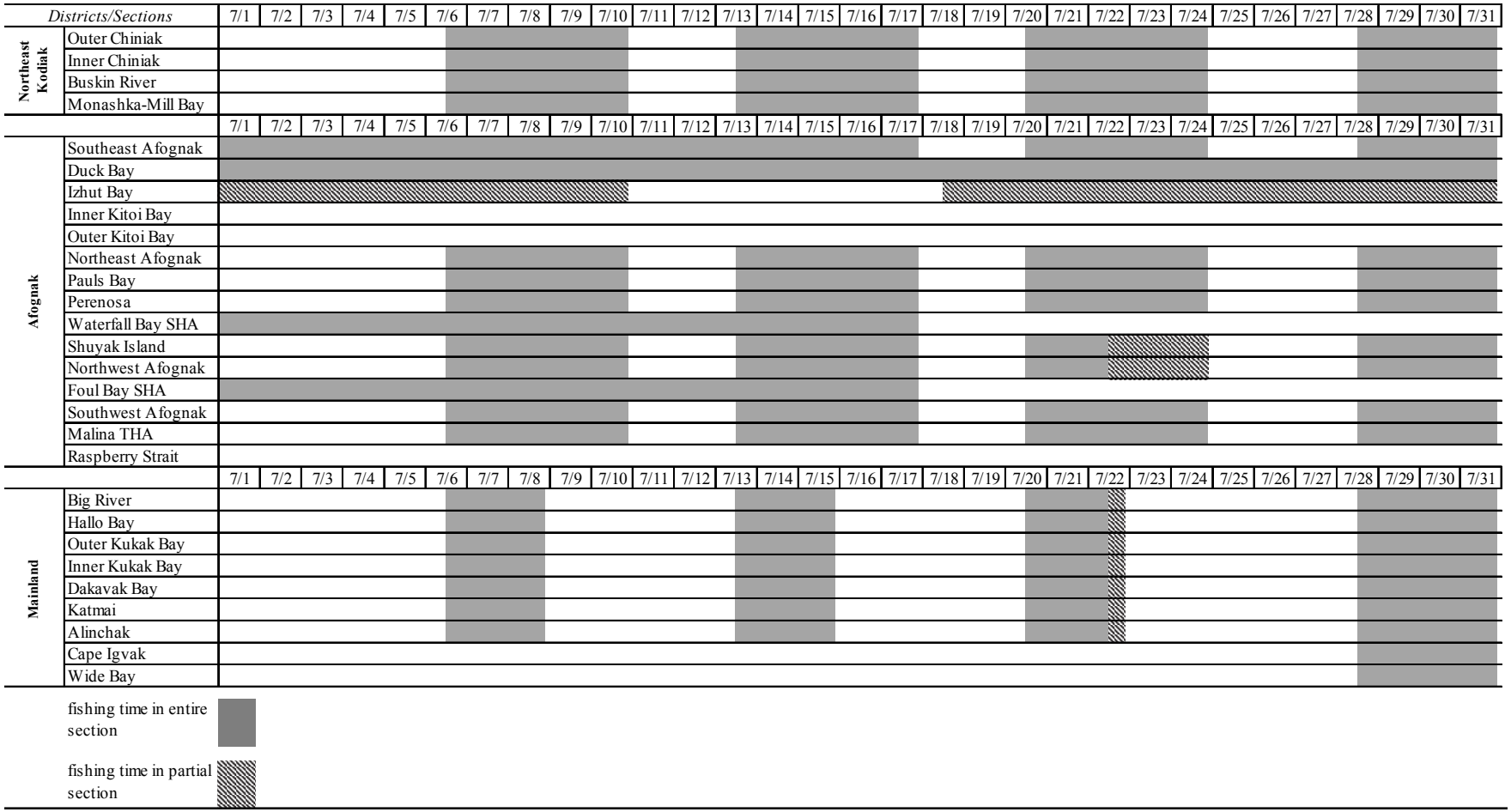
Districts/Sections
7/1 7/2 7/3 7/4 7/5 7/6 7/7 7/8 7/9 7/10 7/11 7/12 7/13 7/14 7/15 7/16 7/17 7/18 7/19 7/20 7/21 7/22 7/23 7/24 7/25 7/26 7/27 7/28 7/29 7/30 7/31
Northeast Kodiak
Outer Chiniak
Inner Chiniak
Buskin River
Monashka-Mill Bay
Afognak
Southeast Afognak
Duck Bay
Izhut Bay
Inner Kitoi Bay
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

-continued-


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 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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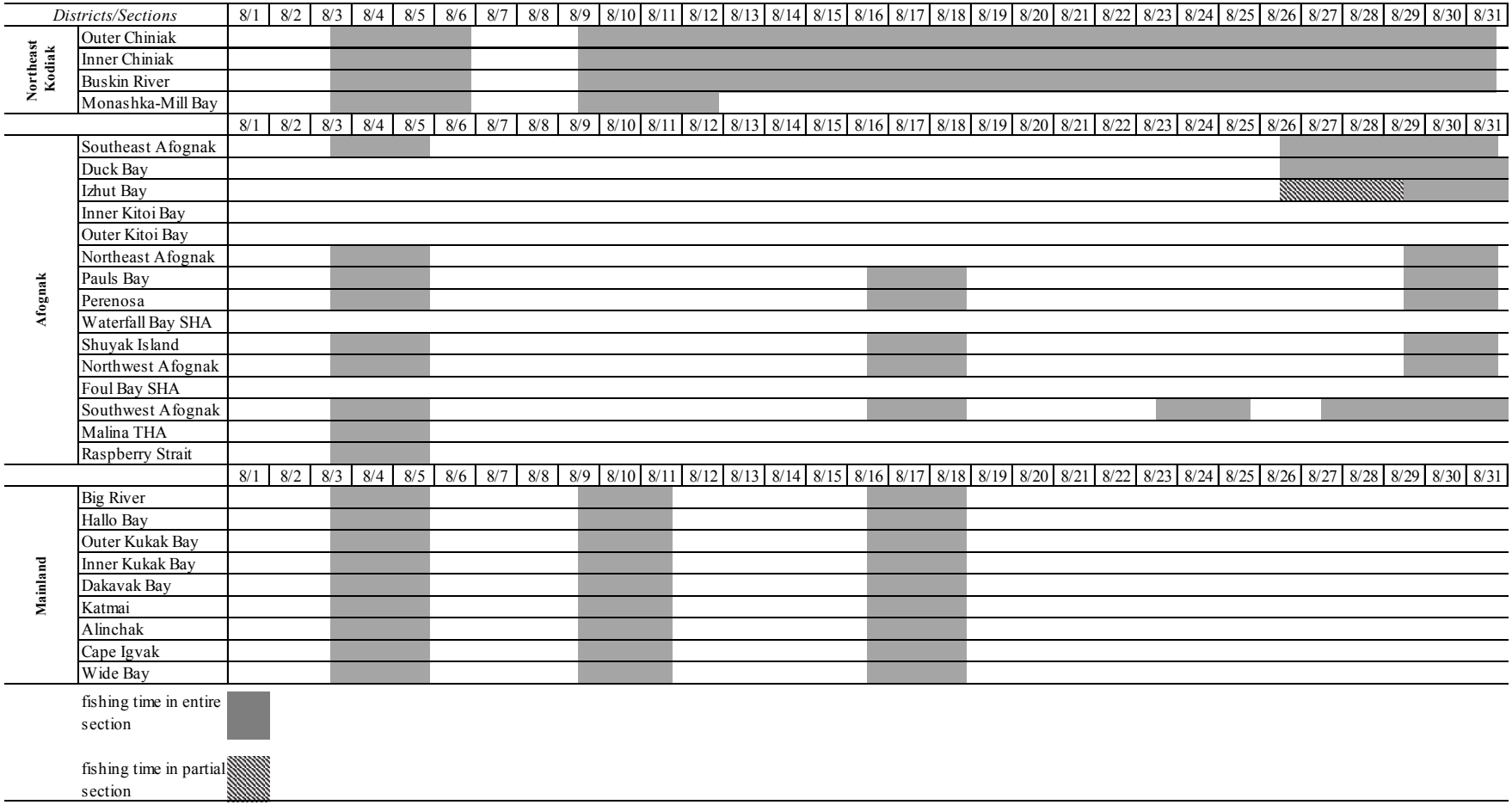
Districts/Sections
8/1 8/2 8/3 8/4 8/5 8/6 8/7 8/8 8/9 8/10 8/11 8/12 8/13 8/14 8/15 8/16 8/17 8/18 8/19 8/20 8/21 8/22 8/23 8/24 8/25 8/26 8/27 8/28 8/29 8/30 8/31
Northeast Kodiak
Outer Chiniak
Inner Chiniak
Buskin River
Monashka-Mill Bay
Afognak
Southeast Afognak
Duck Bay
Izhut Bay
Inner Kitoi Bay
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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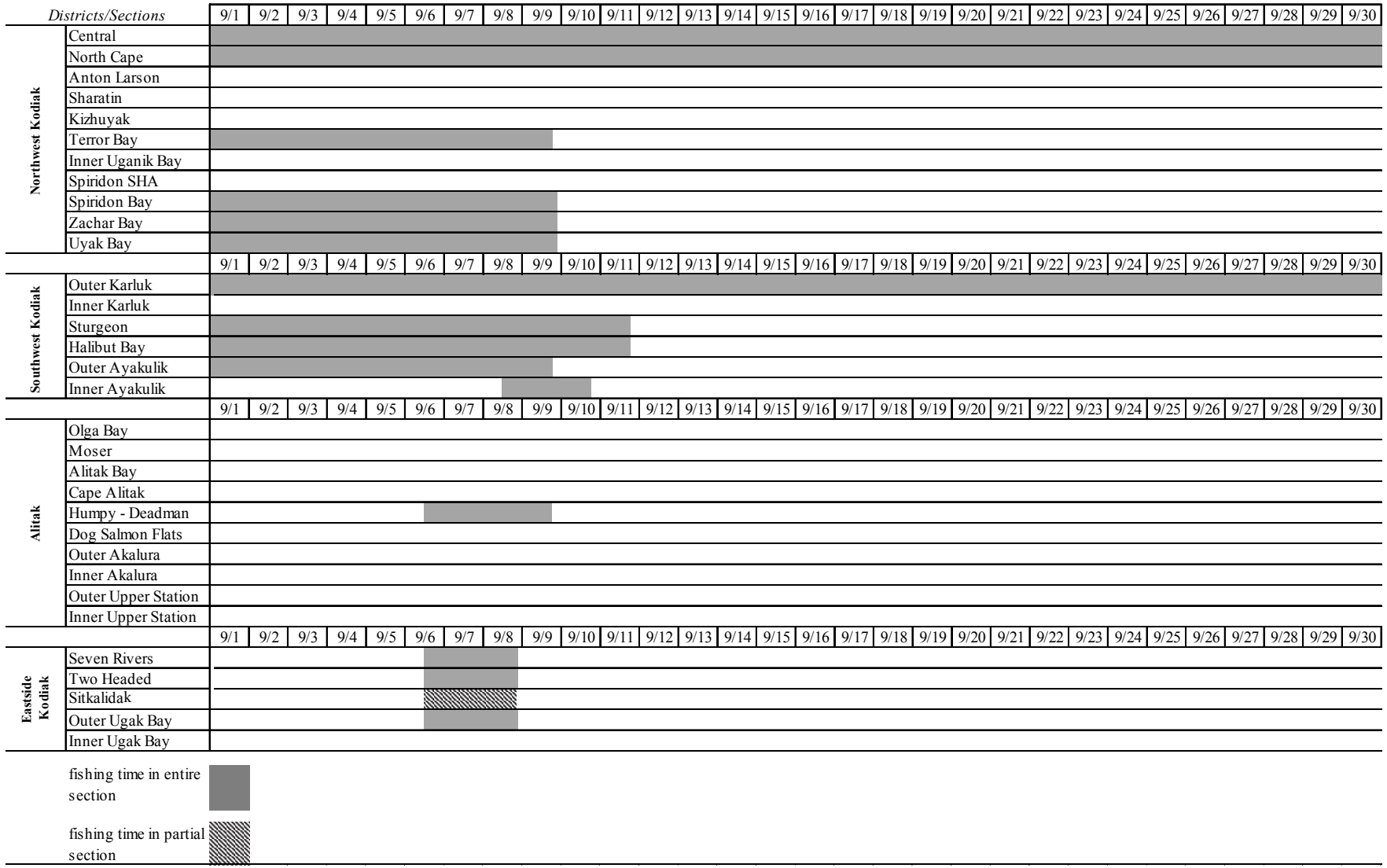
Districts/Sections
9/1 9/2 9/3 9/4 9/5 9/6 9/7 9/8 9/9 9/10 9/11 9/12 9/13 9/14 9/15 9/16 9/17 9/18 9/19 9/20 9/21 9/22 9/23 9/24 9/25 9/26 9/27 9/28 9/29 9/30
Northwest Kodiak
Central
North Cape
Anton Larson
Sharatin
Kizhuyak
Terror Bay
Inner Uganik Bay
Spiridon SHA
Spiridon Bay
Zachar Bay
Uyak Bay
Southwest Kodiak
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

-continued-

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																														
		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
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																														
		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
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, 2011.

E.O. #	Issued	Effective	Action in effect
1	10:00 AM 6/5	Noon 6/9	Opening for 33 hours, until 9:00 PM 6/10: • Northwest Kodiak District • Alitak District • Southeast Afognak Section
		12:01 AM 6/11	Opening for 48 hours, until 9:00 PM 6/10: • Cape Igvak Section
		Noon 6/9	Opening until further notice: • Foul Bay Special Harvest Area (FBSHA) • Waterfall Bay Special Harvest Area (WBSHA) • Inner Kitoi Bay, Outer Kitoi Bay, Duck Bay, Izhut Bay sections
		Noon 6/9	Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk
		Noon 6/9	Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
2	10:00 AM 6/10	9:00 PM 6/10	Extension until further notice: • Southeast Afognak Section
		12:01 AM 6/11	Extension for 48 hours until 12:01 AM 6/13: Cape Igvak Section
		6:00 AM 6/13	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 6/13 to 9:00 AM 6/15 • Moser Bay Section from Noon 6/13 to 3:00 PM 6/15 • Alitak Bay Section from 6:00 PM 6/13 to 9:00 PM 6/15 • Cape Alitak and Humpy-Deadman sections from 6:00 AM 6/14 to 9:00 AM 6/16
		Noon 6/14	Opening for 33 hours, until 9:00 PM 6/15: • Northwest Kodiak District • Eastside Kodiak District • Southwest Afognak, Northwest Afognak, Pauls Bay and Pernosa Bay sections • Big River and Outer Kukak Sections
		Noon 6/14	Closed water adjustments: • Reduced until 9:00 PM 6/15 at Kaflia Creek Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section

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E.O. #	Issued	Effective	Action in effect
2 (cont.)			Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
3	10:00 AM 6/12	12:01 AM 6/13	Extension for 24 hours until 12:01 AM 6/14: • Cape Igvak Section Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
4		Noon 6/15	Opening for 6 hours until 6:00 PM 6/15: • Inner Ayakulik Section
		Noon 6/15	Opening for 57 hours, until 9:00 PM 6/17: • Outerer Ayakulik Section
		Noon 6/15	Nonretention of Chinook salmon 28 inches or greater in length until further notice: • Southwest Kodiak District Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay and Outer Kitoi Bay sections • Southeast Afognak Section Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay

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E.O. #	Issued	Effective	Action in effect
5	2:15 PM 6/14	12:01 AM 6/16	Extension for 48 hours until 12:01 AM 6/18: • Cape Igvak Section Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
6	10:00 AM 6/20	Noon 6/21	Opening for 33 hours, until 9:00 PM 6/22: • Eastside Kodiak District • Northwest Afognak, Pauls Bay, and Perenosa Bay sections • Big River and Outer Kukak sections
		12:01 AM 6/22	Opening for 48 hours, until 12:01 AM 6/24: • Cape Igvak Section
		Noon 6/21	Closed water adjustments: • Reduced until 9:00 PM 6/22 in Saltery Cove Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay

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E.O. #	Issued	Effective	Action in effect
7	10:00 AM 6/23	12:01 AM 6/24	Extension for 48 hours until 12:01 AM 6/26: • Cape Igvak Section Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
8	10:00 AM 6/24	6:00 AM 6/25	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 6/25 to 9:00 AM 6/27 • Moser Bay Section from Noon 6/25 to 3:00 PM 6/27 • Alitak Bay Section from 6:00 PM 6/25 to 9:00 PM 6/27 • Cape Alitak and Humpy-Deadman sections from 6:00 AM 6/26 to 9:00 AM 6/28 Open until further notice: • FBSHA • WBSHA • Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Kitoi Bay • Reduced until further notice in Afognak Bay
9	10:00 AM 6/28	9:00 PM 6/30	Closed until further notice: • Inner Kitoi Bay, Outer Kitoi Bay sections and that portion of Izhut Bay Section south of a line from Pillar Cape to Haystack Rock

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E.O. #	Issued	Effective	Action in effect
9 (cont.)			Open until further notice: • FBSHA • WBSHA • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay
10	10:00 AM 7/1	Noon 7/2	Opening until further notice: • Spiridon Bay Special Harvest Area (SBSHA)
		Noon 7/6/11	Opening for 105 hours until 9:00 PM on 7/10: • Central, North Cape, Uyak Bay, Spiridon Bay, Inner Uganik, Sharatin Bay, and Anton Larson Bay sections • Eastside Kodiak District • Northeast Kodiak District • Southwest Afognak, Northwest Afognak, Shuyak, Pauls Bay, Perenosa Bay, and Northeast Afognak sections
		Noon 7/6	Opening for 57 hours until 9:00 PM on 7/8 • Mainland District (except the Cape Igvak and Wide Bay sections remain closed)
		Noon 7/6	Closed water adjustments: • Reduced until further notice in Settlers Cove Open until further notice: • FBSHA • WBSHA • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock • Southeast Afognak Section Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay

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E.O. #	Issued	Effective	Action in Effect
11	9:00 AM 7/3	6:00 AM 7/4	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 7/4 to 9:00 AM 7/6 • Moser Bay Section from Noon 7/4 to 3:00 PM 7/6 • Alitak Bay Section from 6:00 PM 7/4 to 9:00 PM 7/6 • Cape Alitak and Humpy-Deadman sections from 6:00 AM 7/5 to 9:00 AM 7/7 Open until further notice: • FBSHA • WBSHA • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock • Southeast Afognak Section • SBSHA Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay • Reduced until further notice in Settlers Cove
12	10:30 AM 7/5	9:00 AM 7/6	Extension of the current fishing period in the Alitak District, for 48 hours, as follows: • Olga Bay Section until 9:00 AM 7/8 • Moser Bay Section until 3:00 PM 7/8 • Alitak Bay Section until 9:00 PM 7/8 • Cape Alitak and Humpy-Deadman sections until 9:00 AM 7/9
		Noon 7/6	Closed water adjustments: • Reduced until further notice at Saltery Cove Open until further notice: • FBSHA • WBSHA • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock • Southeast Afognak Section • SBSHA Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District

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E.O. #	Issued	Effective	Action in Effect
12 (cont.)			Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay • Reduced until further notice in Settlers Cove
13	10:30 AM 7/7	9:00 AM 7/8	Extension of the current fishing period in the Alitak District, for 48 hours, as follows: • Olga Bay Section until 9:00 AM 7/10 • Moser Bay Section until 3:00 PM 7/10 • Alitak Bay Section until 9:00 PM 7/10 • Cape Alitak and Humpy-Deadman sections until 9:00 AM 7/11 Open until further notice: • FBSHA • WBSHA • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock • Southeast Afognak Section • SBSHA Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay • Reduced until further notice in Settlers Cove • Reduced until further notice in Saltery Cove
14	10:30 AM 7/9	9:00 PM 7/10	Closed until further notice: • That portion of Izhut Bay Section north of a line from Pillar Cape to Haystack Rock Open until further notice: • FBSHA • WBSHA • Duck Bay Section • Southeast Afognak Section • SBSHA Nonretention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District

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E.O. #	Issued	Effective	Action in Effect
14 (cont.)			Closed water adjustments: • Reduced until further notice in Foul Bay and Waterfall Bay • Reduced until further notice in Afognak Bay • Reduced until further notice in Settlers Cove • Reduced until further notice in Saltery Cove
15	2:00 PM 7/11	6:00 AM 7/13	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 7/13 to 9:00 AM 7/15 • Moser Bay Section from Noon 7/13 to 3:00 PM 7/15 • Alitak Bay Section from 6:00 PM 7/13 to 9:00 PM 7/15 • Cape Alitak from 6:00 AM 7/14 to 9:00 AM 7/16 • Humpy-Deadman Section from 6:00 AM 7/14 to 9:00 PM 7/17
		Noon 7/13	Opening for 105 hours until 9:00 PM on 7/17: • Central, North Cape, Uyak Bay, Spiridon Bay, Inner Uganik, Sharatin Bay, and Anton Larson Bay sections • Eastside Kodiak District • Northeast Kodiak District • Southwest Afognak, Northwest Afognak, Shuyak, Pauls Bay, Perenosa Bay, and Northeast Afognak sections
		Noon 7/13	Opening for 57 hours until 9:00 PM on 7/15: • Mainland District (except the Cape Igvak and Wide Bay sections remain closed)
		9:00 PM 7/17	Closed until further notice • FBSHA • WBSHA • Southeast Afognak Section
		9:00 PM 7/17	Closed water adjustments: • Increased to normal closed waters in Waterfall Bay • Increased to normal closed waters in Foul Bay • Increased to normal closed waters in Afognak Bay
		Noon 7/13	Retention of Chinook salmon 28 inches or greater in length until further notice: • That portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk • The Southwest Kodiak District Open until further notice: • Duck Bay Section • SBSHA Closed water adjustments: • Reduced until further notice in Settlers Cove • Reduced until further notice in Saltery Cove

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E.O. #	Issued	Effective	Action in Effect
16	11:00 AM 7/13	Noon 7/15	Opening for 57 hours until 9:00 PM on 7/15: • Outer Ayakulik and Halibut Bay sections Open until further notice: • Duck Bay Section • SBSHA Closed water adjustments: • Reduced until further notice in Settlers Cove • Reduced until further notice in Saltery Cove
17	11:30 AM 7/14	9:00 AM 7/15	Extension of the current fishing period in the Alitak District, for 48 hours, as follows: • Olga Bay Section until 9:00 AM 7/17 • Moser Bay Section until 3:00 PM 7/17 • Alitak Bay Section until 9:00 PM 7/17 • Cape Alitak Section until 9:00 AM 7/18
		Noon 7/15/11	Opening for 57 hours until 9:00 PM on 7/15: • Outer Ayakulik and Halibut Bay sections
		Noon 7/15	Closed water adjustments: • Increased to normal closed waters until further notice in Settlers Cove Open until further notice: • Duck Bay Section • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove
18	10:00 AM 7/15/11	9:00 PM 7/17	Extension for 60 hours until Noon 7/20: • Inner Ugak Bay Section Open until further notice: • Duck Bay Section • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove
19	9:00 AM 7/16	9:00 AM 7/17	Extension of the current fishing period in the Alitak District, for 48 hours, as follows: • Olga Bay Section until 9:00 AM 7/19 • Moser Bay Section until 3:00 PM 7/19 • Alitak Bay Section until 9:00 PM 7/19 • Cape Alitak Section until 9:00 AM 7/20 Open until further notice: • Duck Bay Section • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove

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E.O. #	Issued	Effective	Action in Effect
20	10:00 AM 7/17	9:00 PM 7/17	Extension for 24 hours until 9:00 PM 7/18: • Outer Ayakulik and Halibut Bay sections
		Noon 7/18	Opening for 9 hours until 9:00 PM on 7/18: • Inner Ayakulik Section
		Noon 7/18	Open until further notice: • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock
			Open until further notice: • Duck Bay Section • SBSHA
			Closed water adjustments: • Reduced until further notice in Saltery Cove
21	10:00 AM 7/18	9:00 PM 7/18	Extension for 144 hours until 9:00 PM 7/24: • Outer Ayakulik and Halibut Bay sections
		Noon 7/20	Opening for 105 hours until 9:00 PM on 7/24: • Central North Cape, Spiridon Bay, Sharatin Bay, and Anton Larson Bay sections • Eastside Kodiak District • Northeast Kodiak District • Southwest Afognak, Northwest Afognak, Shuyak, Pauls Bay, Perenosa Bay and Northeast Afognak sections • Humpy-Deadman Section
		Noon 7/20	Opening for 57 hours until 9:00 PM on 7/24: • Mainland District (except the Cape Igvak and Wide Bay sections remain closed)
			Open until further notice: • Duck Bay Section • SBSHA • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock
			Closed water adjustments: • Reduced until further notice in Saltery Cove
22	10:00 AM 7/19	6:00 AM 7/22	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 7/22 until further notice • Moser Bay Section from Noon 7/22 until further notice • Alitak Bay Section from 6:00 PM 7/22 until further notice • Cape Alitak Section from 6:00 AM 7/23 until further notice
			Open until further notice: • Duck Bay Section • SBSHA • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock

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E.O. #	Issued	Effective	Action in Effect
22 (cont.)			Closed water adjustments: • Reduced until further notice in Saltery Cove
23	10:00 AM 7/22	1:00 PM 7/22	Closes the current fishing period in the seaward zones of the following sections: • Dakavak Bay, Outer Kukak Bay, Hallo Bay and Big River sections • Northwest Afognak and Shuyak Island sections Open until further notice: • Duck Bay Section • SBSHA • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock Closed water adjustments: • Reduced until further notice in Saltery Cove
24	10:00 AM 7/25	Noon 7/28	Opening for 81 hours until 9:00 PM on 7/24: • Central. North Cape, and Spiridon Bay sections • Eastside Kodiak District • Northeast Kodiak District • Southwest Afognak, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay and Northeast Afognak sections • Humpy-Deadman Section • Outer Ayakulik and Halibut Bay sections • Mainland District Open until further notice: • Duck Bay Section • SBSHA • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock Closed water adjustments: • Reduced until further notice in Saltery Cove
25	10:00 AM 7/29	9:00 AM 7/30	Closes the current fishing period in the Alitak District as follows: • Olga Bay Section at 9:00 AM 7/30 • Moser Bay Section at 3:00 PM 7/30 • Alitak Bay Section at 9:00 PM 7/30 • Cape Alitak Section at 9:00 AM 7/31 Open until further notice: • Duck Bay Section • SBSHA • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock Closed water adjustments: • Reduced until further notice in Saltery Cove

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E.O. #	Issued	Effective	Action in Effect
26	10:00 AM 7/30	Noon 7/31	Closed water adjustment: • Reduced until further notice in Humpy Cove
		9:00 PM 7/31	Extension for 63 hours until Noon 8/3: • Humpy-Deadman Section • Two Headed and Seven Rivers sections
		9:00 PM 7/31	Extension for 24 hours until 9:00 PM 8/1: • Inner Ugak Section
		9:00 PM 7/31	Closes the current fishing period in the following sections: • Duck Bay Section • That portion of the Izhut Bay Section north of a line from Pillar Cape to Haystack Rock Open until further notice: • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove
27	10:00 AM 7/31	9:00 PM 7/31	Extension for 63 hours until Noon 8/3: • Outer Ayakulik Section Open until further notice: • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove • Reduced until further notice in Humpy Cove
28	10:00 AM 8/1	Noon 8/2	Opening for 24 hours until Noon 8/3: • Inner Ayakulik Section
		6:00 AM 8/2	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 8/2 until 9:00 AM 8/8 • Moser Bay Section from Noon 8/2 until 3:00 PM 8/8 • Alitak Bay Section from 6:00 PM 8/2 until 9:00 PM 8/8 • Cape Alitak Section from 6:00 AM 8/3 until 9:00 AM 8/9 Open until further notice: • SBSHA Closed water adjustments: • Reduced until further notice in Saltery Cove • Reduced until further notice in Humpy Cove
29	10:00 AM 8/2	Noon 8/3	Extension for 105 hours until 9:00 PM 8/7: • Outer Ayakulik Section • Humpy-Deadman Section • Seven Rivers and Two Headed sections

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E.O. #	Issued	Effective	Action in Effect
29 (cont.)		Noon 8/3	Opening for 81 hours until 9:00 PM 8/6: • Sitkalidak, Inner Ugak and Outer Ugak sections • Northeast Kodiak District
		Noon 8/3	Opening for 57 hours until 9:00 PM 8/5: • Sitkalidak, Inner Ugak and Outer Ugak sections • Northeast Kodiak Distric
			Open until further notice: • SBSHA
			Closed water adjustments: • Reduced until further notice in Saltery Cove • Reduced until further notice in Humpy Cove
30	8:30 AM 8/3	Noon 8/3	Extension for 105 hours until 9:00 PM 8/7: • Inner Ayakulik Section
		Noon 8/4	Closed water adjustments: • Increased to normal closed waters until further notice in Saltery Cove
			Open until further notice: • SBSHA
			Closed water adjustments: • Reduced until further notice in Humpy Cove
31	4:30 PM 8/5	9:00 PM 8/7	Extension until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections
			Open until further notice: • SBSHA
			Closed water adjustments: • Reduced until further notice in Humpy Cove
32	10:00 AM 8/8	Noon 8/9	Opening for 81 hours until 9:00 PM 8/11: • Sitkalidak and Outer Ugak sections • Northeast Kodiak District
		Noon 8/9	Opening for 57 hours until 9:00 PM 8/5: • Mainland District
		Noon 8/9	Closed water adjustments: • Increased until further notice in Sitkalidak Strait • Increased until further notice in Kiliuda Bay
			Open until further notice: • SBSHA • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections

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E.O. #	Issued	Effective	Action in Effect
32 (cont.)			Closed water adjustments: • Reduced until further notice in Humpy Cove
33	9:30 AM 8/11	9:00 PM 8/10	Extension until further notice: • Inner Chiniak, Outer Chiniak and Buskin River sections
		Noon 8/12	Extension for 24 hours until 9:00 PM 8/13: • Sitkalidak and Outer Ugak sections Open until further notice: • SBSHA • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections Closed water adjustments: • Reduced until further notice in Humpy Cove • Increased until further notice in Sitkalidak Strait • Increased until further notice in Kiliuda Bay
34	4:30 PM 8/11	Noon 8/12	Closed water adjustments: • Reduced to normal closed waters until further notice in Sitkalidak Strait • Reduced to normal closed waters until further notice in Kiliuda Bay Open until further notice: • SBSHA • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove
35	10:00 AM 8/12	9:00 PM 8/13	Extension for 48 hours until 9:00 PM 8/15: • Sitkalidak and Outer Ugak sections Open until further notice: • SBSHA • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections Closed water adjustments: • Reduced until further notice in Humpy Cove

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E.O. #	Issued	Effective	Action in Effect
36	10:00 AM 8/14	9:00 PM 8/15	Close the current commercial salmon fishing period in the following: • SBSHA
		9:00 PM 8/15	Extension for 72 hours until 9:00 PM 8/18: • Sitkalidak and Outer Ugak sections
		Noon 8/16	Opening for 57 hours until 9:00 PM 8/18: • Central, North Cape, Spiridon Bay and Zachar Bay sections • Southwest Afognak, Northwest Afognak, Shuyak Island, Pauls Bay, and Perenosa Bay sections • Mainland District Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove
37	10:00 AM 8/17	6:00 AM 8/18	Opening in the Alitak District as follows: • Olga Bay Section from 6:00 AM 8/18 until 9:00 AM 8/20 • Moser Bay Section from Noon 8/18 until 3:00 PM 8/20 • Alitak Bay Section from 6:00 PM 8/18 until 9:00 PM 8/20 • Cape Alitak Section from 6:00 AM 8/19 until 9:00 AM 8/21
		9:00 PM 8/18	Extension for 24 hours until 9:00 PM 8/19: • Central, North Cape, Spiridon Bay and Zachar Bay sections Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove
38	10:00 AM 8/19	Noon 8/20	Opening for 78 hours until 6:00 PM 8/23: • Sitkalidak, Outer Ugak Bay and Inner Ugak Bay sections Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Ayakulik and Outer Ayakulik sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove

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E.O. #	Issued	Effective	Action in Effect
39	10:00 AM 8/22	Noon 8/23	Open for 54 hours until 6:00 PM 8/25: • Central, North Cape, Spiridon Bay and Zachar Bay sections
		6:00 PM 8/25	Close the current fishing period in the following: • Inner Ayakulik and Outer Ayakulik sections Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections Closed water adjustments: • Reduced until further notice in Humpy Cove
40	4:15 PM 8/22	Noon 8/23	Opening for 54 hours until 6:00 PM 8/25: • Southwest Afognak Section Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove
41	10:00 AM 8/25	Noon 8/26	Open until further notice: • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Haystack Rock to Pillar Cape
		Noon 8/26	Opening for 54 hours until 6:00 PM 8/28: • Southeast Afognak Section Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Chiniak, Outer Chiniak and Buskin River sections Closed water adjustments: • Reduced until further notice in Humpy Cove
42	10:00 AM 8/26	Noon 8/27	Opening for 78 hours until 6:00 PM 8/30: • Central, North Cape, Spiridon Bay, Zachar Bay, Uyak Bay and Terror Bay sections • Inner Ayakulik, Outer Ayakulik, Halibut, Sturgeon and Outer Karluk sections • Southwest Afognak Section Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Chiniak, Outer Chiniak and Buskin River sections • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Haystack Rock to Pillar Cape Closed water adjustments: • Reduced until further notice in Humpy Cove

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E.O. #	Issued	Effective	Action in Effect
43	10:00 AM 8/28	Noon 8/29	Opening for 54 hours until 6:00 PM 8/31: • Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay and Northeast Afognak sections • Sitkalidak and Outer Ugak sections
		Noon 8/29	Open until further notice: • That portion of the Izhut Bay Section south of a line from Haystack Rock to Pillar Cape
		6:00 PM 8/28	Extension for 72 hours until 6:00 PM 8/31: • Southeast Afognak Section
		Noon 8/29	Closed water adjustments: • Increased until further notice in Sitkalidak Strait • Increased until further notice near Gull Cape Lagoon Open until further notice: • Humpy-Deadman Section • Two Headed and Seven Rivers sections • Inner Chiniak, Outer Chiniak and Buskin River sections • Duck Bay Section and that portion of the Izhut Bay Section north of a line from Haystack Rock to Pillar Cape Closed water adjustments: • Reduced until further notice in Humpy Cove
44	10:00 AM 8/30	6:00 PM 8/30	Extension for 72 hours until 6:00 PM 9/2: • Central, North Cape, Spiridon Bay, Zachar Bay, Uyak Bay, and Terror Bay sections • Outer Ayakulik, Halibut Bay, Sturgeon, and Outer Karluk sections • Southwest Afognak Section
		6:00 PM 8/31	Closes the current fishing period in the following areas: • Inner Chiniak, Outer Chiniak and Buskin River sections • Humpy-Deadman Section • Two-Headed and Seven Rivers sections
		6:00 PM 8/31	Closed water adjustments: • Increased to normal closed waters until further notice in Humpy Cove • Reduced to normal closed waters until further notice in Sitkalidak Strait • Reduced to normal closed waters until further notice near Gull Cape Lagoon Open until further notice: • Duck and Izhut Bay sections
45	9:30 AM 9/2	6:00 PM 9/2	Extension for 72 hours until 6:00 PM 9/5: • Central, North Cape, Spiridon Bay, Zachar Bay, Uyak Bay, and Terror Bay sections • Outer Ayakulik, Halibut Bay, Sturgeon, and Outer Karluk sections • Southwest Afognak Section

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E.O. #	Issued	Effective	Action in Effect
45 (cont.)		Noon 9/3	Opening for 54 hour until 6:00 PM 9/5: • Southeast Afognak, Raspberry Strait, Northwest Afognak, Shuyak Island, Pauls Bay, Perenosa Bay and Northeast Afognak sections • Alinchak Bay, Cape Igvak, and Wide Bay sections Open until further notice: • Duck and Izhut Bay sections
46	9:30 AM 9/5	6:00 PM 9/5	Extension for 96 hours until 6:00 PM 9/9: • Central, North Cape, Spiridon Bay, Zachar Bay, Uyak Bay, and Terror Bay sections • Outer Ayakulik, Halibut Bay, Sturgeon, and Outer Karluk sections • Southwest Afognak Section
		Noon 9/6	Opening for 54 hour until 6:00 PM 9/5: • Outer Ugak, Sitkalidak, Two-Headed and Seven Rivers sections • Humpy-Deadman Section
		Noon 9/6	Closed water adjustments: • Outer Ugak, Sitkalidak, Two-Headed and Seven Rivers sections Humpy-Deadman Section Open until further notice: • Duck and Izhut Bay sections
47	9:45 AM 9/7	Noon 9/8	Opening for 54 hour until 6:00 PM 9/10: • Inner Ayakulik Section
		Noon 9/8	Open until further notice: • Outer Kitoi Bay Section Open until further notice: • Duck and Izhut Bay sections
48	2:45 PM 9/8	6:00 PM 9/9	Extension for 96 hours until 6:00 PM 9/13: • Central and North Cape sections • Outer Karluk Section • Southwest Afognak Section
		Noon 9/9	Extension for 48 hours until 6:00 PM 9/11: • Halibut Bay, Sturgeon and Outer Ayakulik sections Open until further notice: • Duck, Izhut Bay and Outer Kitoi Bay sections
49	10:00 AM 9/12	6:00 PM 9/13	Extension until further notice: • Central and North Cape sections • Outer Karluk Section • Southwest Afognak Section Open until further notice: • Duck, Izhut Bay and Outer Kitoi Bay sections

APPENDIX C. CAPE IGVAK FISHERY SUMMARY

Appendix C1.–Narrative account of the Cape Igvak sockeye salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

Beginning in 1964, a purse seine fishery developed along the capes in the Cape Igvak Section of the Mainland District (Appendix C2). Tagging studies and stock identification studies using average weight and age composition conducted in 1968 and 1969 concluded that up to 80 percent of the sockeye salmon harvested in the Cape Igvak Section were of Chignik origin (unpublished Kodiak Area Annual Report, 1969, ADF&G, Kodiak). The issue of interception of Chignik-bound sockeye salmon in the Cape Igvak Section came before the BOF several times over the next ten years, and management of this section was modified many times. From 1974 through 1977, this area was managed for "day for day" equal fishing time with the Chignik Bay District of the Chignik Management Area (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. The *CISMP* allows the Kodiak Management Area (KMA) fleet to harvest up to 15% of the Chignik-bound sockeye salmon harvest.[1] The *CISMP* also stipulated strict allocative and biological requirements. Through July 25 in Chignik, a minimum harvest of 600,000 sockeye salmon must be expected (300,000 each for both the early- and late-run), and sockeye salmon escapement must be at desired levels for a harvest to be allowed. Commercial fisheries had to begin in the CMA before fisheries were allowed in the Cape Igvak Section (Dinnocenzo and Jackson 2011).

Since this plan was adopted in 1978, the catch of Chignik-bound sockeye salmon from the Cape Igvak Section has ranged from 0% to 17.9% of the total Chignik sockeye salmon harvest (Appendix C3) and has averaged 10.4% of the total CMA sockeye salmon harvest (Appendix C4). The Cape Igvak harvest has met or exceeded its 15% allocation level in only 8 of the 34 years the plan has been in place (Appendices C3 and C4).

2011 Cape Igvak Fishery

Early Run

The 2011 preseason forecast for the Chignik system predicted a return of approximately 1,299,000 early-run (Black Lake) sockeye salmon. The early-run escapement goal is 350,000 to 400,000 sockeye salmon by July 4 (Nemeth et al. 2010). This left a forecasted harvestable surplus of 949,000 early-run sockeye salmon (Eggers and Carroll, 2011).

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[1] 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 2011 early Chignik sockeye salmon return came in stronger than forecast. The Cape Igvak Section opened on June 9 and 11 days of fishing were allowed in June (Appendix C5). Through June 25, there were 549,487 sockeye salmon harvested from the Cape Igvak Section. An estimated 90% of these sockeye salmon, or 494,538 fish, were considered Chignik bound. The combined harvest in the CMA plus 80% of the sockeye salmon harvested in the Southeastern District Mainland considered to be Chignik bound, the cumulative Cape Igvak harvest was 21.5% of the total Chignik sockeye harvest through June 25. The *CISMP* provides for an "overlap period" between the first and second runs (June 26 to July 9) during which fishing in the Cape Igvak Section is closed or severely limited until the strength of the late run (Chignik Lake) can be assessed. In accordance with the *CISMP,* the Cape Igvak fishery was closed from June 26 through July 8.

Late Run

The preseason forecast for late-run (Chignik Lake) sockeye salmon was approximately 1,024,000 fish in 2011. The late-run escapement objective was 250,000 to 400,000 sockeye salmon (Nemeth et al. 2010). This resulted in a forecasted harvestable surplus of 774,000 sockeye salmon (Eggers and Carroll 2011).

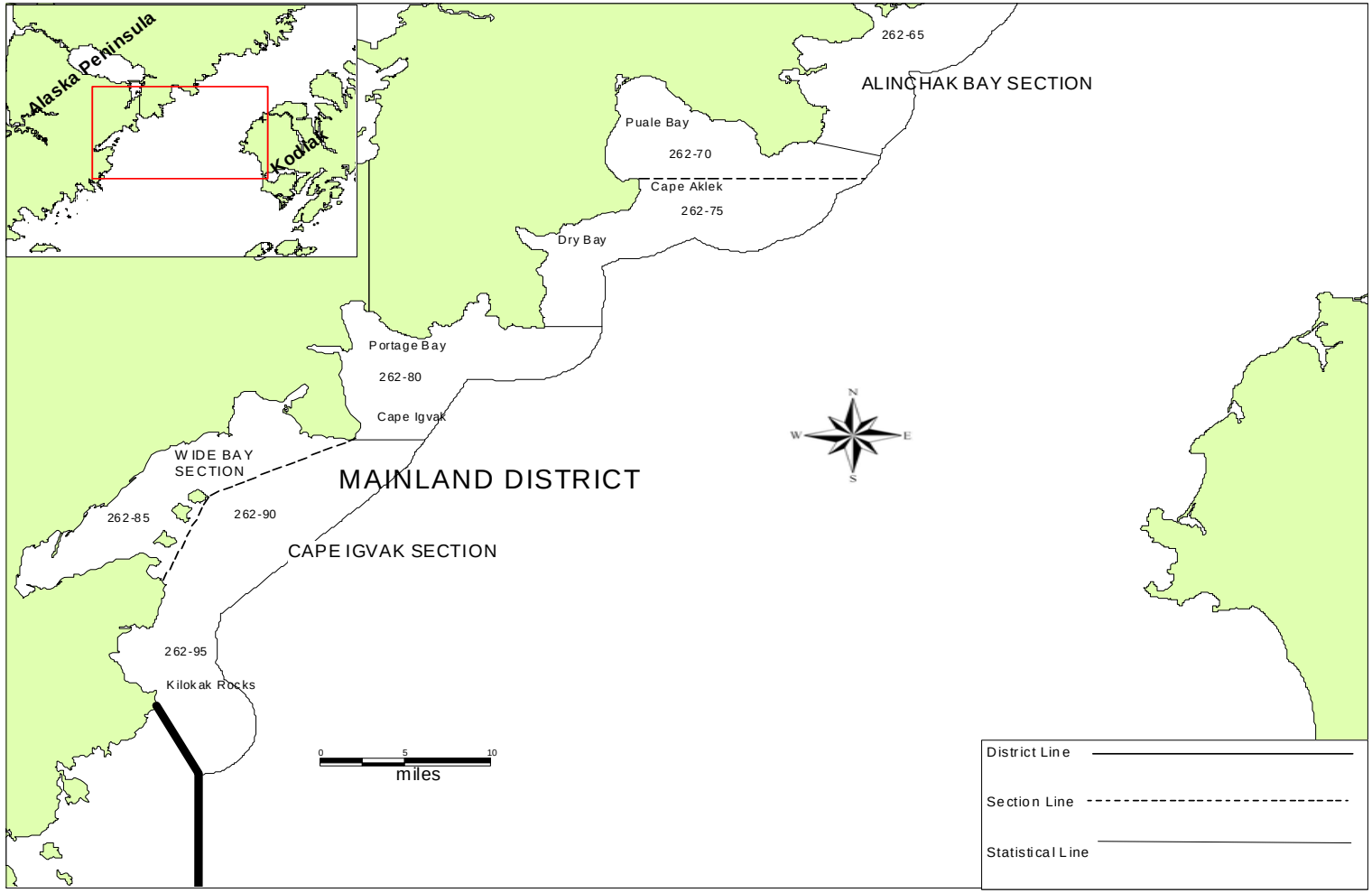
Unlike the early run, the 2011 Chignik late run (Chignik Lake) came in less than forecasted. No fishing time was allowed during the late run to Chignik through July 25 (Appendix C5). The season cumulative harvest of Chignik-bound sockeye salmon from the Cape Igvak Section was 549,487 fish or 16.89% of the total Chignik sockeye salmon harvest (Appendix C3). According to the allocation plan (in effect since 1978) the total Chignik-bound sockeye salmon harvest of 494,538 fish was the largest on record.

REFERENCES CITED

Dinnocenzo, J., and J. Jackson. 2011. Kodiak management area harvest strategy for the 2011 commercial salmon fishery. Alaska Department of Fish and Game, Fisheries Management Report No. 11-18, Anchorage.

Eggers, D. M., and A. M. Carroll. 2011. Run forecasts and harvest projections for the 2011 Alaska salmon fisheries and review of the 2010 season. Alaska Department of Fish and Game, Special Publication No. 11-03, Anchorage.

Nemeth, M. J., M. E. Loewen, H. Finkle, J. S. Schmidt, J. W. Erickson, M. J. Witteveen, and D. Barnard. 2010. Review of escapement goals in the Chignik Management Area, 2010. Alaska Department of Fish and Game, Fishery Manuscript No. 10-08, Anchorage.



Appendix C2.–Map of the Cape Igvak Section of the Kodiak Management Area, 2011.

Appendix C3.–Harvest of sockeye salmon considered to be Chignik bound in the Chignik, Cape Igvak, and Southeastern District Mainland commercial salmon fisheries, from 1978 to 2011.

	Chignik		Cape Igvak[a]		Southeastern District Mainland[a]		
Year	Catch	Percent	Catch	Percent	Catch	Percent	Total
1978[b,c]	1,454,389	86.60	225,078	13.40	N/A	N/A	1,679,467
1979[d]	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[e]	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	[f]	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[g]	1,962,583	80.45	324,195	13.29	152,714	6.26	2,439,492
1992[h]	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[i]	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[j]	1,710,249	79.70	308,327	14.37	127,201	5.93	2,145,777
1997	443,892	100.00	[f]	0.00	[f]	0.00	443,892
1998[k]	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[l]	1,134,991	79.41	215,214	15.06	79,037	5.53	1,429,242
2002[m]	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[n]	601,213	91.97	52,527	8.03	[f]	0.00	653,740
2008	455,199	100.00	[f]	0.00	[f]	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

[a] 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 caught in those areas are destined for Chignik (excluding sockeye caught in the Northwest Stepovak Section from 1964 to 1991 and during July from 1996 through 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%.

[b] 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 fishermen.

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[c] 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.

[d] From 1979 through 1984, fishing in the Southeastern District Mainland was allowed for five 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.

[e] 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.

[f] No fishery.

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

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

[i] Includes overescapement of 208,921 sockeye salmon, counted through the Chignik weir during a Chignik Area seiners strike (June 2 to June 25).

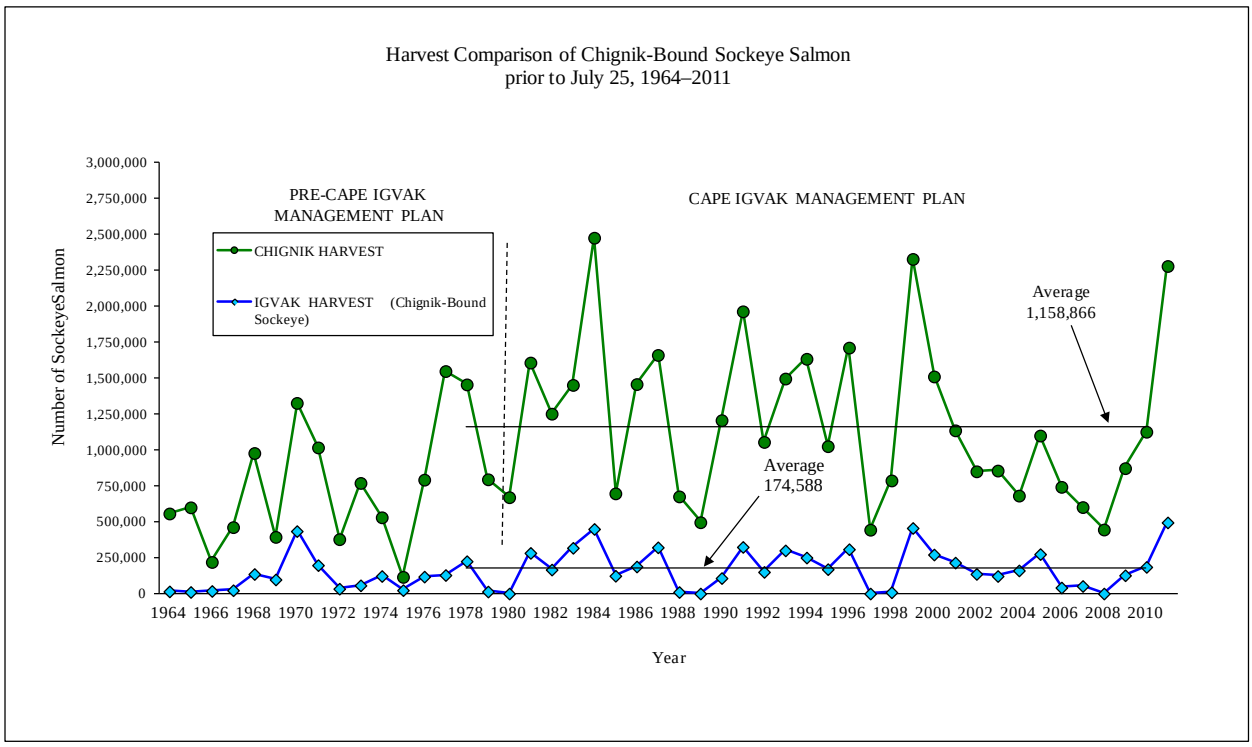
[j] In January 1996, the BOF increased the area managed for local Orzinski Lake sockeye salmon from only Orzinski Bay to the entire Northwest Stepovak Section. Prior to July 1, the entire Northwest Stepovak Section will be managed by allocation based on Chignik sockeye salmon run strength. Beginning 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%.

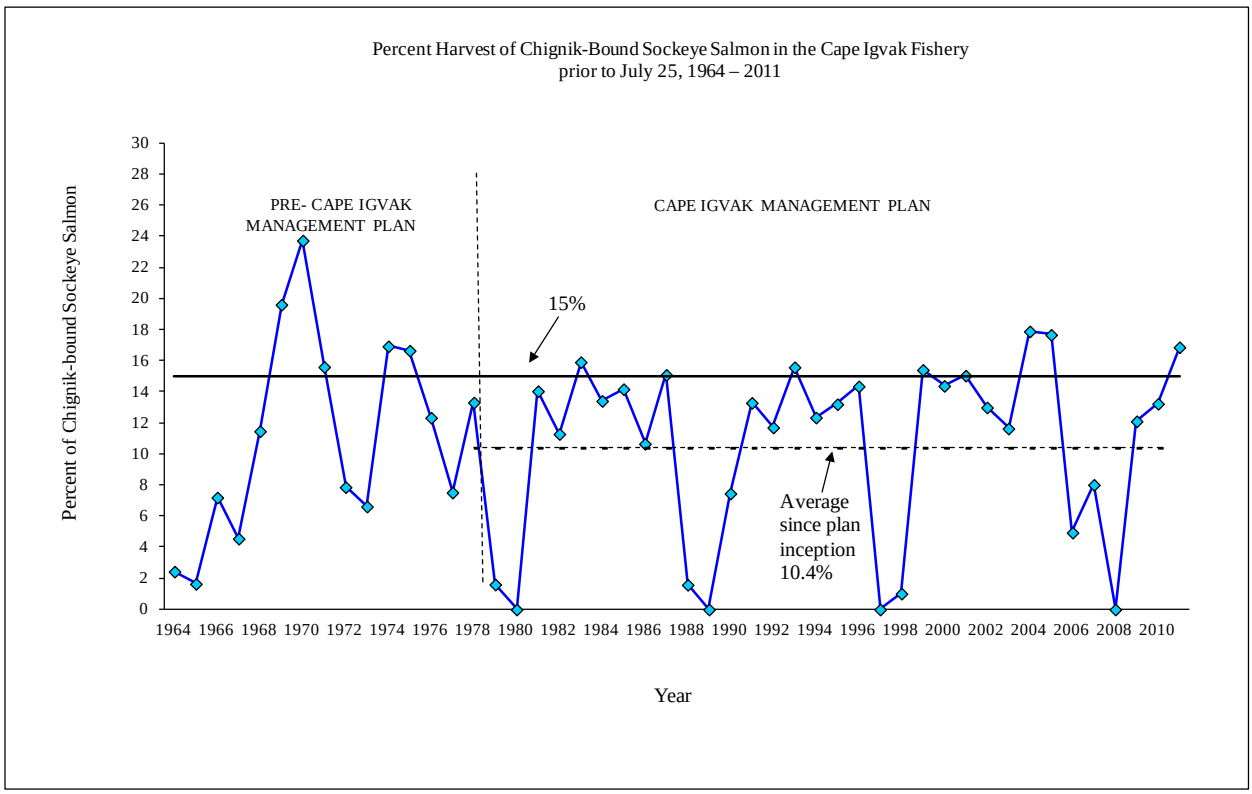
[k] Includes 7,714 sockeye salmon caught on June 18 by the Chignik Seiners Association (CSA), and an overescapement of 52,131 sockeye salmon counted past the weir during the CSA boycott (June 16 to June 29).

[l] Includes 176,605 sockeye salmon caught June 16–29 by the CSA, and foregone harvest due to overescapement of 398,887 in the CMA and 27,896 in the Southeast District Mainland during the fishermen's strike (June 14 to July 2).

[m] 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.

[n] 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.





Appendix C4.–Impact of the Cape Igvak Salmon Management Plan.

Appendix C5.–Purse seine daily harvest, by species, for the Cape Igvak sockeye salmon fishery, 2011.

			Chinook		Sockeye		Coho		Pink		Chum	
Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First Period (June 9 - 13)												
6/9	33	33	145	1,627	29,269	191,504	0	0	25	83	3,918	27,605
6/10	26	27	87	961	50,334	306,799	0	0	22	69	4,182	25,053
6/11	18	20	40	520	42,383	277,679	0	0	38	116	1,919	14,087
6/12	28	28	66	687	45,061	295,017	0	0	99	302	2,346	16,147
6/13	32	34	100	1,166	37,830	259,328	0	0	123	355	1,511	11,034
Subtotal	48	142	438	4,961	204,877	1,330,327	0	0	307	925	13,876	93,926
Second Period (June 16-17)												
6/16	37	37	138	1,633	87,530	560,974	0	0	894	2,654	5,464	36,943
6/17	40	41	101	1,052	66,824	434,194	0	0	649	1,943	6,330	44,954
Subtotal	51	78	239	2,685	154,354	995,168	0	0	1,543	4,597	11,794	81,897
Third Period (June 22-25)												
6/22	65	67	776	6,587	91,458	614,564	1	5	5,035	15,555	16,599	113,690
6/23	36	36	172	1,526	24,503	162,387	6	46	1,795	5,358	5,582	40,261
6/24	59	60	357	2,935	46,008	297,752	9	44	4,949	14,725	12,752	85,078
6/25	49	49	185	1,711	28,287	183,098	3	25	2,465	7,784	5,564	40,180
Subtotal	30	212	1,490	12,759	190,256	1,257,801	19	120	14,244	43,422	40,497	279,209
Season												
Total	79	432	2,167	20,405	549,487	3,583,296	19	120	16,094	48,944	66,167	455,032
Avg.Wt.				9.4		6.5		6.3		3.0		6.9

Note: Only 90% of the sockeye caught in the Cape Igvak fishery are defined by regulation to be Chignik bound.

APPENDIX D. ALITAK DISTRICT FISHERY SUMMARY

Appendix D1.–Narrative account of the Alitak District salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

The Alitak District (AD) fishery is unique in the Kodiak Management Area (KMA) because set gillnet and seine gear can both fish in this district, but are segregated by sections. Set gillnets are allowed only in the inside waters of the Alitak Bay, Moser Bay, and Olga Bay sections, while 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 AD to conserve and build sockeye salmon stocks returning to the Frazer, Akalura, and Upper Station systems, while offering some protection to local 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 BOF (5AAC 18.361). This plan details the key species and targeted stocks that are managed for in each section of the district throughout the fishing season. The stated intent of this plan is that salmon be harvested in the "traditional" fisheries located in the Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, and Olga Bay sections (Dinnocenzo and Jackson 2011).

This management plan has been in effect since 1988 and was most recently revised by the BOF in 2005. The BOF divided the former Moser-Olga Bay and Alitak Bay sections into three separate sections: Olga Bay, Moser Bay, and Alitak Bay. Each section was given a specific statistical area number. The initial commercial fishing period remained a 33-hour commercial test fishery for the entire AD (Dinnocenzo and Jackson 2011). However, through September 15, all subsequent commercial salmon fisheries in the Cape Alitak Section and the new Alitak Bay, Moser Bay, and Olga Bay sections have staggered opening and closing times according to regulation (5 AAC 18.361(c)). Also, from the conclusion of the test fishing period until September 15, there shall be a minimum closure of 69 consecutive hours in every 10-day period, to apply to each section individually as each section closes, unless the ADF&G determines that the sockeye salmon escapement goals will be achieved for both the Frazer and Upper Station sockeye salmon runs.

2011 Alitak Fishery

The total run forecast for the Upper Station early run was 56,000 sockeye salmon, with an estimated harvestable surplus of approximately 31,000 fish. The 2011 total run forecast for the Frazer Lake system was 329,000 sockeye salmon (Eggers and Carroll 2011), with an estimated harvestable surplus of approximately 181,000 sockeye salmon. The total run forecast for Upper Station late run was 348,000 sockeye salmon, with an estimated harvestable surplus of approximately 162,000 sockeye salmon (Eggers and Carroll 2011).

The early-run Upper Station sockeye salmon run has a BOF mandated optimum escapement goal (OEG) of 25,000 fish. The Frazer Lake sockeye salmon biological escapement goal (BEG) range is 75,000 to 170,000 fish. The 2011 targeted sockeye salmon escapement for Frazer Lake was based on a maximum sustained yield calculation of 117,000 fish (Nemeth et al. 2010). 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 fish pass) below the outlet of the lake. Over the years an increasing number of sockeye salmon have not escaped the fish pass into the lake and have remained in Dog Salmon River. For the past five years the

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number of sockeye salmon remaining in the river has averaged 30,000 fish. The 2011 targeted Dog Salmon weir sockeye salmon escapement was determined to be 148,000 fish. Upper Station late-run has a BEG of 120,000 to 265,000 fish. The 2011 target sockeye salmon escapement for Upper Station late-run was based on a maximum sustained yield calculation of 186,000 fish (Nemeth et al. 2010).

Upper Station early-run sockeye salmon has earlier run timing than the Frazer system. The intent of early June openings in the AD are to allow commercial fishermen the opportunity to harvest Upper Station early-run fish prior to the Frazer Lake system peak run timing. In 2011, the sockeye salmon run to the Upper Station system appeared to have normal timing but was weak. However, cumulative escapement was high enough to project that the OEG of 25,000 early-run sockeye salmon into Upper Station Lakes would likely be achieved. A 33-hour test fishery was announced for June 9 and the subsequent harvest indicated an increasing abundance of sockeye salmon in the AD.

Daily weir counts through the Upper Station weir increased following the announcement of the test fish opening, resulting in cumulative escapement consist with achieving the OEG of 25,000 fish. During this time, few sockeye salmon had passed the Dog Salmon weir but several thousand were staging on Dog Salmon Flats (Appendix D2).

The build-up of sockeye salmon on Dog Salmon Flats continued growing even during the test fishery accompanied by increasing daily weir counts. Based on increasing abundance of fish on Dog Salmon flats, continued adequate weir counts at Upper Station, and a general increase in abundance indicated in the test fishing period, the fishery was reopened for 51 hours on June 13. The resulting harvest indicated a declining abundance of sockeye salmon in the district and the period was not extended. Throughout the rest of June, cumulative escapement past Upper Station weir was above the minimum needed to achieve the OEG and the daily escapements through Dog Salmon weir had increased and the cumulative escapement on June 20 was within the desired range for that date.

By June 24 the Upper Station early-run sockeye salmon OEG was achieved. Based on continued improving escapement at Dog Salmon weir, another 51-hour fishing period was allowed on June 25. Although the AD harvest numbers were above average Dog Salmon sockeye salmon escapement was still below the targeted escapement of 148,000 fish. The percentage of jack salmon in the daily escapement (adult males returning after one year in salt water) also began to increase. For this reason it was determined that the ADF&G should attempt to achieve a final sockeye salmon escapement between 180,000 to 190,000 fish.

On June 30 a large buildup of sockeye was detected at the mouth of Dog Salmon Creek. By July 4 the cumulative escapement at Dog salmon weir was in the upper portion of the desired escapement range for that date and very near the minimum season goal of 95,000 fish. With a large buildup of fish still on Dog Salmon Flats, fishing was allowed beginning July 4 for 51 hours.

On July 5, 16,216 sockeye salmon passed Dog Salmon weir, bringing the cumulative escapement to 103,126 fish. This level of escapement exceeded anticipated returns by this date. Fishing was then extended for the maximum schedule allowed under the management plan. On July 13 the cumulative Dog Salmon sockeye salmon escapement was 129,734 fish, well ahead of achieving

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between 180,000 to 190,000 fish. Based on continued improving escapement at Dog Salmon weir, another 51-hour fishing period was allowed on July 13.

Cumulative escapement into the Upper Station Lakes through July 15 was 28,759 sockeye salmon (Tiernan 2011), which was above the OEG of 25,000 fish.

The *Alitak District Management Plan* (ADMP; 5AAC 18.361) dictates that during odd-numbered years, from July 16 through August 9, commercial salmon fishing must be managed in the Cape Alitak, Moser, and Olga Bay sections based on the sockeye or pink salmon returning to the Frazer system. The cumulative sockeye salmon escapement through the Dog Salmon weir by July 15 was 137,157 fish (Tiernan 2011), which was above the desired range for this date, and above the minimum annual escapement goal of 95,000 fish. On July 15 the Alitak District was extended for an additional 51 hours.

After July 15, the Humpy-Deadman Section is managed based on the strength of salmon runs to local systems through season's end. In 2011 local pink and chum streams in the Humpy-Deadman Section had strong returns resulting in continuous fishing beginning July 28 through the end of August along with reduced closed waters in Humpy Cove.

On July 17, sockeye salmon escapement through Dog Salmon weir was still high enough to project a final escapement above 180,000 to 190,000 fish. At this time management consideration focused on harvesting enough sockeye salmon to control Dog Salmon escapement. The maximum fishing schedule, as allowed and fishing continued until August 9, after which management considerations are based on Upper Station late-run sockeye salmon.

The final 2011 Dog Salmon weir, sockeye salmon escapement was 180,603 fish (Tiernan 2011; Table 4). This allowed for an extra 30,000 fish that on average have remained in the river, and an extra 33,000 fish due to an abnormally high Jack salmon percentage. The final 2011 Frazer fish pass escapement was 134,642 fish, of which 57,177 were Jack salmon (Moore 2012). For 2011, 45,961 sockeye salmon remained in Dog Salmon River and did not go through the fish pass.

From August 10 through August 25 in odd numbered years, the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay sections are managed based on conservation of late-run sockeye salmon returning to Upper Station. By August 10, fishing openings had indicated low abundance of sockeye salmon in the district and the cumulative escapement at Upper Station weir was below the desired escapement range. The fishery was kept closed until August 18 when cumulative sockeye salmon counts through Upper Station had risen into the desired inseason range. The harvest during the short opening was small indicating low abundance and the fishing period was not extended. From August 20 through August 25 Upper Station late-run escapement was weak.

After August 25, the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay sections salmon fishery is managed on coho and sockeye salmon runs to Olga Bay. Due to continued weak Upper Station late-run escapement no more fishing periods were allowed during the 2011 season. The 2011 Upper Station late-run cumulative escapement was 101,752 sockeye salmon (Tiernan 2011).

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Season Totals

In 2011, set gillnet harvest in the Olga Bay Section (statistical area 257-40), by 23 permit holders included 1 Chinook; 34,234 sockeye; 142 coho; 5,084 pink; and 1,206 chum salmon (Appendix D3). Set gillnet harvest in the Moser Bay Section (statistical area 257-43) by 30 permit holders included 11 Chinook; 55,158 sockeye; 277 coho; 16,640 pink; and 1,535 chum salmon (Appendix D3). Set gillnet harvest in the Alitak Bay Section (statistical area 257-41) by 28 permit holders included 11 Chinook; 88,794 sockeye; 844 coho; 31,744 pink; and 4,684 chum salmon (Appendix D3).

In 2011, seine harvest in the Cape Alitak Section (statistical areas 257-10 and -20) by 55 permit holders included 2,180 Chinook; 82,385 sockeye; 1,605 coho; 659,187 pink; and 16,273 chum salmon (Appendix D4). Seine harvest in the Humpy-Deadman Section (statistical areas 257-50, -60, and -70) by 62 permit holders included 430 Chinook; 57,637 sockeye, 3,226 coho, 4,183,816 pink and 21,001 chum salmon (Appendix D4). No fishing periods were allowed in the Alitak Bay,

Moser Bay, and Olga Bay sections after September 5, and so no seine fishermen fished in theses sections in 2011.

Seventy-three purse seine permit holders fished in the AD fisheries, and harvested 2,610 Chinook (99% of the total AD Chinook harvest); 140,022 sockeye (44%); 4,831 coho (79%); 4,843,003 pink (99%); and 37,274 chum salmon (83%; Appendices D4, D5 and D6). Sixty-seven gillnet permit holders fished in the AD, and harvested 23 Chinook (1%); 178,186 sockeye (56%); 1,263 coho (21%); 53,498 pink (1%); and 7,425 chum salmon (17%; Appendices D3, D5 and D6).

Terminal harvest fisheries were not prosecuted in 2011 in the AD. There was no salmon harvest allowed in the Dog Salmon Flats Section (statistical area 257-42), the Inner and Outer Upper Station sections (statistical area 257-30), or the Inner and Outer Akalura sections (statistical area 257-31).

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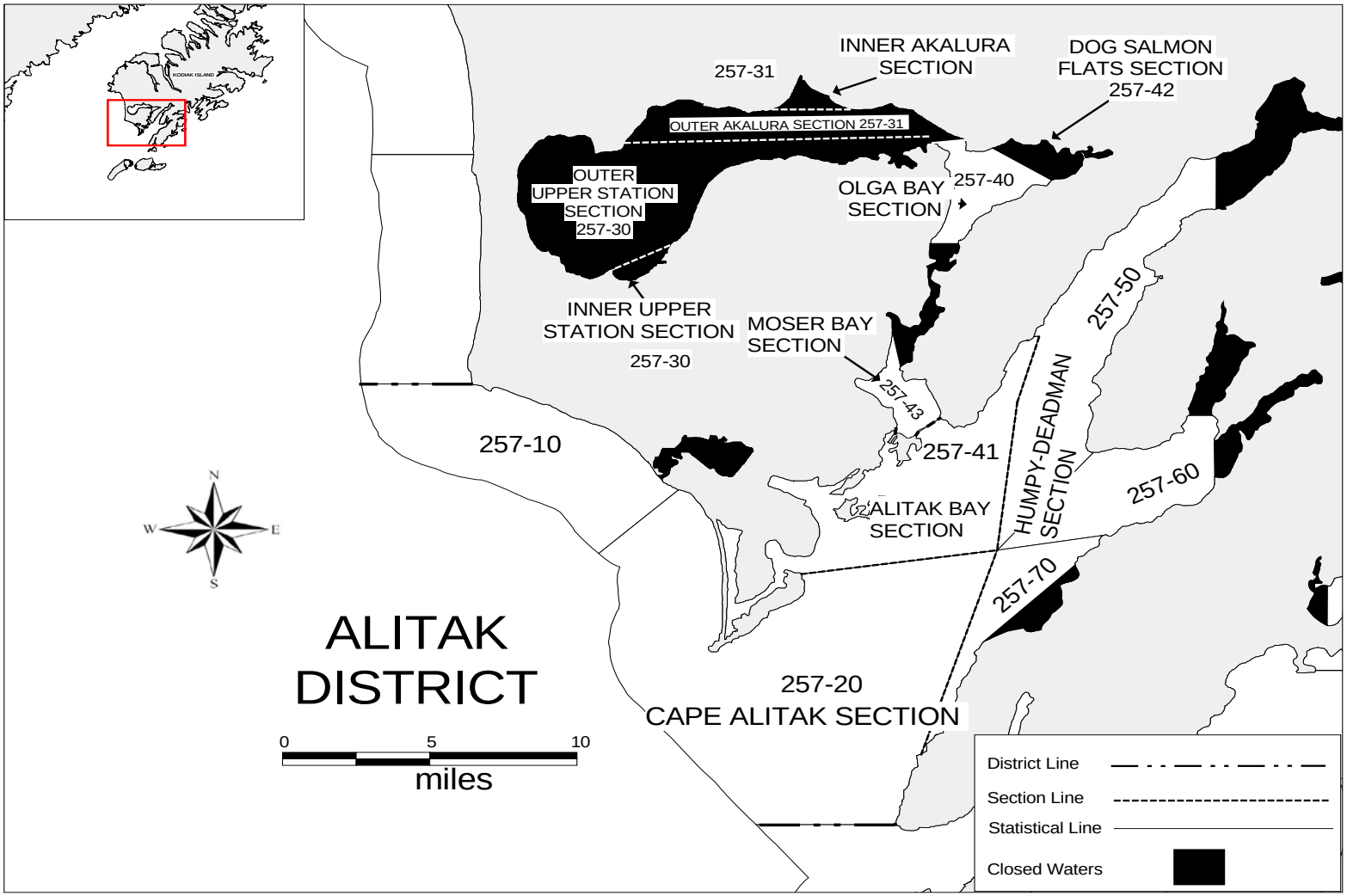

Appendix D2.–Map of the Alitak District showing sections, statistical areas, and closed waters, 2011.

Appendix D3.–Set gillnet daily salmon harvest, by species and section, for the Alitak District, 2011.

Statistical				Chinook		Sockeye		Coho		Pink		Chum	
Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Olga Bay	9-Jun	11	13	0	0	3,718	21,147	0	0	0	0	7	49
Section	10-Jun	11	16	0	0	2,416	15,307	0	0	0	0	5	33
257-40	13-Jun	12	18	0	0	3,212	17,243	0	0	0	0	8	59
	14-Jun	11	15	0	0	1,560	8,028	0	0	0	0	11	76
	15-Jun	9	9	0	0	395	1,940	0	0	0	0	1	8
	25-Jun	13	19	0	0	3,024	15,143	0	0	2	8	101	641
	26-Jun	11	13	0	0	1,215	5,949	0	0	1	4	193	1,062
	27-Jun	6	6	0	0	153	760	0	0	0	0	20	123
	4-Jul	14	24	0	0	5,356	27,263	0	0	28	108	177	968
	5-Jul	10	11	0	0	768	3,852	0	0	10	40	83	463
	6-Jul	9	11	1	10	312	1,631	0	0	7	28	50	285
	7-Jul	9	9	0	0	120	672	0	0	9	36	28	165
	8-Jul	8	8	0	0	106	548	0	0	5	20	68	353
	9-Jul	9	11	0	0	129	657	0	0	12	48	12	90
	10-Jul	4	4	0	0	57	285	0	0	8	32	4	28
	13-Jul	9	17	0	0	2,775	13,915	0	0	161	637	55	331
	14-Jul	11	12	0	0	698	3,660	0	0	88	353	32	192
	15-Jul	7	8	0	0	113	578	0	0	21	84	7	52
	16-Jul	6	6	0	0	109	573	0	0	14	61	4	24
	17-Jul	7	7	0	0	106	489	0	0	31	124	6	37
	18-Jul	5	5	0	0	70	373	1	9	25	100	3	18
	19-Jul	3	3	0	0	19	101	0	0	1	4	0	0
	22-Jul	9	16	0	0	1,743	9,079	1	9	741	2,958	58	358
	23-Jul	9	9	0	0	293	1,764	1	8	354	1,415	23	138
	24-Jul	7	7	0	0	68	412	0	0	67	269	7	48
	25-Jul	8	9	0	0	129	779	0	0	138	559	9	55
	26-Jul	8	8	0	0	204	1,222	2	18	121	483	1	6
	27-Jul	7	7	0	0	134	800	1	9	80	327	14	84

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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	28-Jul	5	6	0	0	170	1,025	0	0	46	185	7	42
Section	29-Jul	6	7	0	0	235	1,375	0	0	110	447	8	42
257-40	30-Jul	6	6	0	0	205	1,194	2	18	66	272	4	25
(cont.)	2-Aug	11	17	0	0	1,654	10,229	2	17	369	1,482	24	145
	3-Aug	8	9	0	0	291	1,751	0	0	163	653	19	115
	4-Aug	6	6	0	0	88	535	1	9	67	274	5	29
	5-Aug	5	6	0	0	105	628	0	0	109	435	5	30
	6-Aug	7	9	0	0	238	1,424	0	0	105	418	6	36
	7-Aug	3	3	0	0	69	415	0	0	84	339	0	0
	8-Aug	3	3	0	0	79	524	0	0	59	236	4	24
	18-Aug	9	16	0	0	1,677	8,388	68	571	1,260	5,047	44	306
	19-Aug	7	7	0	0	342	1,753	31	252	451	1,800	64	400
	20-Aug	6	6	0	0	79	396	32	246	271	1,086	29	188
Total		23	402	1	10	34,234	183,807	142	1,166	5,084	20,372	1,206	7,128
Average weight					10.00		5.37		8.21		4.01		5.91
Moser Bay	9-Jun	10	10	0	0	1,446	7,173	0	0	0	0	5	31
Section	10-Jun	12	18	0	0	1,989	10,182	0	0	0	0	11	77
257-43	13-Jun	9	9	0	0	2,099	10,719	0	0	0	0	5	38
	14-Jun	13	16	0	0	2,511	13,099	0	0	0	0	14	89
	15-Jun	12	12	0	0	1,332	6,752	0	0	0	0	11	72
	25-Jun	9	9	0	0	891	4,920	0	0	1	3	72	510
	26-Jun	11	12	0	0	1,527	8,232	0	0	1	3	108	825
	27-Jun	9	10	1	7	762	4,107	0	0	3	9	38	284
	4-Jul	9	9	0	0	1,659	8,354	0	0	14	44	32	206
	5-Jul	12	16	0	0	2,751	14,671	1	7	28	105	75	513
	6-Jul	10	14	1	18	1,022	5,315	0	0	34	121	65	406
	7-Jul	10	11	0	0	952	5,043	0	0	34	121	44	301

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Appendix D3.–Page 3 of 5.

Statistical Area	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Moser Bay	8-Jul	12	12	0	0	1,183	6,233	3	22	42	161	67	438
Section	9-Jul	10	12	0	0	1,276	6,798	1	7	106	383	68	503
257-43	10-Jul	8	8	0	0	929	4,904	1	8	50	181	99	661
(cont.)	13-Jul	9	9	1	8	2,507	13,360	1	7	200	733	47	340
	14-Jul	11	15	0	0	2,188	11,514	1	7	254	940	43	322
	15-Jul	10	14	0	0	1,015	5,578	0	0	172	663	33	250
	16-Jul	10	10	1	10	785	4,228	0	0	204	762	19	141
	17-Jul	9	11	0	0	861	4,595	1	8	211	803	10	68
	18-Jul	12	12	2	20	708	3,669	0	0	235	902	20	148
	19-Jul	10	10	1	8	1,005	5,326	2	15	318	1,224	19	143
	22-Jul	12	12	0	0	1,038	5,657	4	31	447	1,649	44	332
	23-Jul	11	13	4	40	1,215	6,718	1	7	598	2,340	36	250
	24-Jul	9	9	0	0	651	3,430	1	8	451	1,666	20	141
	25-Jul	13	16	0	0	919	5,093	10	77	662	2,583	24	181
	26-Jul	13	14	0	0	919	5,213	2	14	342	1,341	16	112
	27-Jul	14	16	0	0	1,116	6,145	2	14	561	2,144	14	97
	28-Jul	11	14	0	0	1,564	8,891	1	7	492	1,881	15	93
	29-Jul	15	21	0	0	1,889	10,136	2	18	554	2,145	49	327
	30-Jul	12	12	0	0	1,501	8,443	1	6	318	1,221	16	111
	2-Aug	6	7	0	0	981	5,705	2	12	544	2,098	21	125
	3-Aug	12	15	0	0	1,529	8,292	2	14	789	3,104	25	167
	4-Aug	12	15	0	0	1,522	8,569	4	32	1,330	5,254	52	338
	5-Aug	12	14	0	0	1,716	9,547	5	33	797	3,178	56	369
	6-Aug	13	18	0	0	2,184	12,534	8	69	1,537	6,012	70	445
	7-Aug	10	11	0	0	1,034	5,589	6	42	780	3,072	33	215
	8-Aug	8	8	0	0	1,378	7,806	1	7	1,088	4,336	26	162
	18-Aug	9	11	0	0	1,027	5,605	36	295	1,148	4,566	57	414
	19-Aug	12	14	0	0	1,031	5,607	100	761	1,582	6,451	44	354
	20-Aug	10	10	0	0	546	2,751	78	649	713	2,852	12	72
Total		30	509	11	111	55,158	296,503	277	2,177	16,640	65,051	1,535	10,671
Average weight					10.09		5.38		7.86		3.91		6.95

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Appendix D3.–Page 4 of 5.

Statistical				Chinook		Sockeye		Coho		Pink		Chum	
Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alitak Bay	9-Jun	10	11	0	0	858	4,248	0	0	0	0	1	6
Section	10-Jun	13	19	0	0	3,201	16,198	0	0	0	0	19	131
257-41	13-Jun	3	3	0	0	310	1,593	0	0	0	0	0	0
	14-Jun	12	16	0	0	2,134	11,449	0	0	0	0	8	53
	15-Jun	11	14	0	0	1,456	7,659	0	0	0	0	28	192
	25-Jun	8	8	0	0	835	4,203	0	0	0	0	11	84
	26-Jun	15	22	0	0	4,940	26,977	0	0	4	11	302	2,364
	27-Jun	14	22	0	0	3,291	17,536	0	0	7	24	376	2,070
	4-Jul	3	3	0	0	176	945	0	0	3	9	14	89
	5-Jul	14	21	1	41	2,423	13,013	0	0	34	115	149	1,067
	6-Jul	13	17	0	0	1,749	9,297	0	0	33	115	84	586
	7-Jul	13	18	0	0	5,896	31,824	0	0	71	251	127	891
	8-Jul	13	19	0	0	3,671	19,781	4	27	81	267	96	654
	9-Jul	14	23	1	10	6,357	35,102	14	91	207	694	325	2,369
	10-Jul	13	21	0	0	5,730	30,799	21	153	167	548	231	1,562
	13-Jul	5	5	0	0	904	4,961	0	0	46	170	25	183
	14-Jul	15	26	0	0	3,715	20,332	1	8	306	1,101	115	884
	15-Jul	13	14	0	0	2,376	12,984	3	25	273	1,045	67	528
	16-Jul	13	17	0	0	1,620	9,060	1	7	279	988	75	542
	17-Jul	15	20	1	6	1,616	8,880	3	20	354	1,272	56	412
	18-Jul	13	18	0	0	1,922	10,390	4	27	919	3,221	169	1,283
	19-Jul	13	20	3	51	2,101	11,131	11	84	999	3,724	262	1,821
	22-Jul [a]												
	23-Jul	14	24	0	0	1,506	8,272	6	42	1,087	4,012	217	1,634
	24-Jul	13	17	0	0	1,468	7,888	1	9	1,416	5,567	158	1,190
	25-Jul	12	16	0	0	2,911	15,799	8	65	1,639	6,324	195	1,455
	26-Jul	13	16	0	0	1,609	8,795	10	76	1,276	4,995	170	1,280
	27-Jul	14	17	2	20	1,628	8,864	10	73	788	3,024	114	797
	28-Jul	15	19	0	0	2,578	14,316	6	43	1,333	5,131	134	990
	29-Jul	12	15	0	0	1,443	7,948	6	39	577	2,218	64	447

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Statistical				Chinook		Sockeye		Coho		Pink		Chum	
Area	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alitak Bay	30-Jul	15	22	0	0	2,103	11,933	12	76	1,360	5,382	101	683
Section	2-Aug	5	5	0	0	131	695	1	8	385	1,512	9	51
257-41	3-Aug	13	20	0	0	2,324	12,713	18	80	2,409	9,298	106	702
(cont.)	4-Aug	10	14	0	0	1,415	7,750	19	151	1,406	5,304	102	703
	5-Aug	13	19	0	0	1,984	10,879	12	81	1,341	5,248	137	891
	6-Aug	13	17	1	19	2,238	12,266	10	76	2,226	8,576	147	997
	7-Aug	15	20	0	0	1,708	9,349	19	119	1,232	4,701	100	661
	8-Aug	16	25	2	16	3,431	19,244	16	115	3,612	13,614	133	902
	18-Aug [a]												
	19-Aug	11	21	0	0	1,665	9,083	368	2,614	3,767	13,839	176	1,249
	20-Aug	11	18	0	0	1,098	5,912	258	1,960	1,916	7,025	77	500
Total		28	665	11	163	88,794	481,585	844	6,091	31,774	120,181	4,684	32,932
Average weight					14.82		5.42		7.22		3.78		7.03
Grand Total		66	1,554	23	284	178,186	961,895	1,263	9,434	53,498	205,604	7,425	50,731
Average weight					12.35		5.40		7.47		3.84		6.83

[a] Confidential

Appendix D4.–Purse seine daily salmon harvest, by species and section, for the Alitak District, 2011.

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Cape Alitak	9-Jun	6	6	39	550	1,677	9,019	0	0	0	0	34	277
Section	14-Jun	4	4	18	262	1,567	7,946	0	0	6	18	87	672
(257-10 & 20)	26-Jun	20	21	98	1,598	7,615	40,581	0	0	781	2,382	896	6,090
	27-Jun	9	9	56	707	2,422	12,355	2	6	486	1,467	461	2,845
	28-Jun	4	4	5	51	1,155	5,696	0	0	147	437	160	974
	5-Jul	5	5	60	828	4,707	23,538	1	7	1,979	5,468	424	2,541
	6-Jul	3	3	24	415	2,294	10,743	15	109	1,737	5,255	314	1,960
	7-Jul	5	5	1,170	6,871	3,479	19,936	10	50	3,319	9,956	374	2,387
	8-Jul	6	6	45	583	7,967	45,139	6	44	5,606	16,790	1,288	8,449
	9-Jul	5	5	31	353	4,512	29,813	1	7	3,175	9,534	323	1,933
	10-Jul	8	8	31	419	9,188	66,350	64	419	6,752	20,260	1,014	6,552
	11-Jul	3	3	17	281	2,175	14,140	1	6	2,447	7,343	138	1,007
	14-Jul	10	10	47	553	4,980	33,828	97	601	13,725	41,075	538	3,672
	15-Jul	7	7	63	727	3,291	20,322	31	164	19,127	57,825	453	3,195
	16-Jul	4	5	50	740	2,511	15,703	64	336	22,568	67,710	400	2,781
	17-Jul	9	10	222	2,315	4,524	28,029	335	2,214	24,472	75,215	968	6,640
	18-Jul	3	3	31	354	2,417	15,086	16	99	3,919	11,994	124	871
	19-Jul [a]												
	20-Jul	6	7	44	663	1,474	8,360	61	398	19,435	61,438	475	3,133
	23-Jul	3	3	5	32	2,360	11,795	34	260	2,390	7,221	130	1,081
	24-Jul [a]												
	25-Jul	9	9	18	273	2,069	11,830	68	457	66,445	204,575	1,301	8,438
	26-Jul	17	17	9	146	1,999	11,663	124	798	61,474	186,006	1,117	7,627
	27-Jul	12	12	27	320	1,884	8,705	103	617	41,339	138,362	2,307	14,007
	28-Jul	3	3	3	69	336	1,944	9	55	9,837	30,273	111	700
	29-Jul	7	7	10	88	464	2,975	56	395	40,985	124,839	1,204	8,331
	30-Jul [a]												
	31-Jul	4	4	1	21	126	846	17	123	37,662	126,569	150	1,041
	3-Aug	6	7	6	86	1,392	8,730	43	348	58,928	216,789	398	3,011

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Cape Alitak	5-Aug	4	4	1	12	465	2,607	33	228	29,982	89,663	165	1,172
Section	6-Aug	3	3	0	0	313	1,841	19	130	26,856	84,297	129	809
(257-10 & 20)	7-Aug	5	5	5	88	865	4,858	124	728	74,207	211,299	276	1,833
(cont.)	8-Aug	7	7	22	358	826	4,748	87	620	31,126	90,685	203	1,306
	9-Aug	2	2	0	0	105	610	9	63	19,006	58,098	53	338
	19-Aug	3	3	3	44	323	1,874	71	512	4,460	14,277	28	192
	23-Aug [a]												
Total		55	213	2,180	20,116	82,385	486,896	1,605	10,452	659,187	2,054,946	16,273	107,450
Average weight					9.23		5.91		6.51		3.12		6.60
Humpy-Deadman	26-Jun [a]												
Section	6-Jul [a]												
(257-50,60 & 70)	14-Jul	8	8	112	696	4,857	29,254	50	332	7,409	19,772	304	1,915
	15-Jul [a]												
	16-Jul	3	3	8	111	1,222	7,340	4	23	6,500	19,498	154	1,242
	17-Jul	5	5	43	409	1,303	6,694	16	112	16,993	41,316	289	1,886
	20-Jul	6	6	13	170	1,235	7,125	45	360	19,041	66,156	280	2,453
	21-Jul	7	7	25	324	2,349	14,397	9	64	34,544	112,992	576	4,114
	22-Jul	10	10	27	447	2,108	13,245	76	487	43,212	140,869	1,044	7,317
	23-Jul	10	10	26	322	1,969	11,607	32	219	79,143	266,689	907	6,928
	24-Jul	7	7	2	31	822	4,810	6	49	34,348	110,951	344	2,409
	28-Jul	15	15	10	142	1,416	8,209	28	163	91,340	263,162	753	5,145
	29-Jul	12	13	5	75	850	5,005	60	282	103,010	261,816	665	4,324
	30-Jul	14	14	5	63	367	1,970	18	106	103,856	319,196	337	1,990
	31-Jul	22	26	19	265	523	3,349	32	218	248,675	857,671	481	3,349
	1-Aug	32	32	13	209	2,032	11,422	767	2,642	230,528	709,592	2,317	14,426
	2-Aug	17	19	8	103	2,907	18,611	20	126	91,738	354,386	349	1,927
	3-Aug	23	28	4	57	4,703	27,616	71	481	209,135	634,991	642	4,558
	4-Aug	24	24	3	54	3,678	20,448	63	416	230,321	629,096	907	5,946
	5-Aug	24	24	7	86	2,565	13,896	29	175	230,501	726,243	627	4,312
	6-Aug	25	25	14	163	1,751	10,085	81	568	191,756	616,585	666	4,887

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Humpy-Deadman	7-Aug	20	21	10	218	1,095	5,865	128	786	169,268	507,808	856	5,443
Section	8-Aug	26	27	13	249	1,622	8,780	217	1,477	176,634	539,369	777	5,397
(257-50,60 & 70)	9-Aug	10	10	5	69	823	4,861	55	389	69,736	217,949	410	2,643
(cont.)	10-Aug	23	24	3	47	1,083	6,284	69	407	188,847	554,886	1,095	7,712
	11-Aug	20	20	4	77	720	4,280	39	241	172,678	538,237	579	3,836
	12-Aug	19	21	4	83	563	3,053	33	235	151,769	471,892	336	2,198
	13-Aug	12	12	2	33	477	2,906	22	159	86,485	262,338	188	1,293
	14-Aug	16	18	0	0	530	3,198	37	266	198,903	609,229	317	2,298
	15-Aug	16	17	27	164	607	3,694	58	409	133,096	410,234	459	2,926
	16-Aug	22	23	2	34	1,422	8,073	109	689	206,287	630,406	573	3,996
	17-Aug	11	11	0	0	822	4,841	40	270	70,530	226,167	316	2,035
	18-Aug	15	15	1	13	1,118	6,333	75	507	75,507	241,407	338	2,248
	19-Aug	14	14	3	39	1,085	5,757	133	993	66,912	219,294	283	2,023
	20-Aug	11	12	8	148	665	3,569	115	896	57,757	188,077	377	2,701
	21-Aug	16	16	1	8	1,718	9,594	120	824	81,536	266,311	408	2,704
	22-Aug	8	9	0	0	1,793	10,149	40	310	65,099	206,321	216	1,555
	23-Aug	10	11	1	16	1,429	8,098	203	1,372	91,958	297,331	466	3,309
	24-Aug	14	15	0	0	873	4,774	130	1,036	63,049	213,234	642	4,663
	25-Aug	6	6	0	0	283	1,504	75	468	21,875	71,272	92	610
	26-Aug	3	3	1	25	52	288	12	89	3,354	11,205	22	181
	27-Aug [a]												
	28-Aug	5	5	0	0	32	159	44	332	8,238	31,535	53	370
	29-Aug [a]												
	30-Aug [a]												
Total		62	596	430	4,981	57,637	333,206	3,226	19,419	4,183,816	13,032,230	21,001	143,048
Average weight					11.58		5.78		6.02		3.11		6.81
Grand Total		73	804	2,610	25,097	140,022	820,102	4,831	29,871	4,843,003	15,087,176	37,274	250,498
Average weight					9.62		5.86		6.18		3.12		6.72

[a] Confidential.

Appendix D5.–Salmon harvest by gear type and species, for the Alitak District, 2011.

			Chinook		Sockeye		Coho		Pink		Chum		Total	
	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Purse Seine														
Total	73	804	2,610	25,097	140,022	820,102	4,831	29,871	4,843,003	15,087,176	37,274	250,498	5,027,740	16,212,744
Avg.Wt.				9.62		5.86		6.18		3.12		6.72		
Set Gillnet	66	1,554	23	284	178,186	961,895	1,263	9,434	53,498	205,604	7,425	50,731	240,395	1,227,948
Total														
Avg.Wt.				12.35		5.40		7.47		3.84		7.03		
Year Total	139	2,358	2,633	25,381	318,208	1,781,997	6,094	39,305	4,896,501	15,292,780	44,699	301,229	5,268,135	17,440,692
Avg.Wt.				9.64		5.60		6.45		3.12		6.74		

Appendix D6.–Commercial salmon harvest, by species with percent harvest by gear type, in the Alitak District, 1954–2011.

	Chinook[a]			Sockeye[a]			Coho[a]			Pink[a]			Chum[a]			Total[a]		
Year	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS
1954	3	33%	67%	44,448	94%	6%	1,118	93%	7%	490,038	47%	53%	55,788	19%	81%	591,395	48%	52%
1955	38	74%	26%	56,058	89%	11%	410	68%	32%	1,656,363	15%	85%	100,031	17%	83%	1,812,900	18%	82%
1956	10	10%	90%	62,673	77%	23%	904	25%	75%	335,669	30%	70%	55,967	11%	89%	455,223	34%	66%
1957	7	14%	86%	15,365	88%	12%	378	31%	69%	410,620	12%	88%	49,661	27%	73%	476,031	16%	84%
1958	11	0%	100%	30,542	79%	21%	488	33%	67%	770,851	29%	71%	81,255	8%	92%	883,147	29%	71%
1959	11	18%	82%	24,888	59%	41%	378	30%	70%	544,592	23%	77%	70,589	8%	92%	640,458	23%	77%
1960	29	17%	83%	68,472	77%	23%	2,129	77%	23%	1,561,476	25%	75%	102,432	13%	87%	1,734,538	26%	74%
1961	23	4%	96%	145,781	67%	33%	1,470	49%	51%	1,589,027	14%	86%	60,600	18%	82%	1,796,901	19%	81%
1962	5	20%	80%	124,496	75%	25%	1,792	79%	21%	1,886,769	23%	77%	54,115	26%	74%	2,067,177	26%	74%
1963	30	7%	93%	54,992	60%	40%	1,202	31%	69%	1,522,856	14%	86%	42,836	10%	90%	1,621,916	15%	85%
1964	29	10%	90%	50,167	72%	28%	2,324	76%	24%	1,408,731	46%	54%	34,460	13%	87%	1,495,711	46%	54%
1965	16	6%	94%	68,876	68%	32%	688	16%	84%	1,129,185	11%	89%	20,604	17%	83%	1,219,369	14%	86%
1966	2	50%	50%	70,526	91%	9%	585	78%	22%	429,204	40%	60%	33,153	18%	82%	533,470	46%	54%
1967	6	0%	100%	14,227	82%	18%	50	0%	100%	84,918	66%	34%	17,377	55%	45%	116,578	66%	34%
1968	16	44%	56%	40,662	86%	14%	3,701	79%	21%	1,046,221	21%	79%	29,450	35%	65%	1,120,050	24%	76%
1969	27	37%	63%	98,722	54%	46%	7,240	7%	93%	3,768,917	8%	92%	45,134	15%	85%	3,920,040	10%	90%
1970	8	50%	50%	81,528	76%	24%	4,540	73%	27%	949,488	27%	73%	93,306	15%	85%	1,128,870	30%	70%
1971	33	30%	70%	124,480	55%	45%	2,261	66%	34%	1,066,180	10%	90%	191,437	7%	93%	1,384,391	14%	86%
1972	15	40%	60%	22,127	70%	30%	1,270	51%	49%	187,154	17%	83%	93,236	6%	94%	303,802	18%	82%
1973	4	50%	50%	10,338	62%	38%	125	70%	30%	49,932	35%	65%	24,408	19%	81%	84,807	34%	66%
1974	19	16%	84%	66,605	52%	48%	1,284	49%	51%	363,389	9%	91%	22,220	9%	91%	453,517	16%	84%
1975	0	0%	0%	16,515	72%	28%	1,627	3%	97%	235,720	11%	89%	2,855	40%	60%	256,717	15%	85%
1976	18	28%	72%	96,668	71%	29%	3,518	53%	47%	1,804,003	26%	74%	66,183	14%	86%	1,970,390	28%	72%
1977	20	40%	60%	78,805	69%	31%	1,343	57%	43%	961,673	23%	77%	70,978	12%	88%	1,112,819	26%	74%
1978	694	58%	42%	218,165	59%	41%	2,788	52%	48%	4,191,756	12%	88%	72,166	16%	84%	4,485,569	14%	86%
1979	108	24%	76%	317,906	50%	50%	15,007	54%	46%	1,664,249	7%	93%	22,454	32%	68%	2,019,724	14%	86%
1980	34	21%	79%	208,200	83%	17%	12,972	34%	66%	2,033,236	12%	88%	67,471	12%	88%	2,321,913	18%	82%
1981	45	13%	87%	346,073	74%	26%	17,011	55%	45%	2,073,629	13%	87%	61,513	37%	63%	2,498,271	22%	78%
1982	43	30%	70%	476,862	86%	14%	29,378	40%	60%	519,880	27%	73%	101,543	22%	78%	1,127,706	52%	48%
1983	159	12%	88%	460,087	59%	41%	28,953	45%	55%	1,318,526	7%	93%	107,786	21%	79%	1,915,511	21%	79%
1984	290	11%	89%	382,729	67%	33%	25,299	51%	49%	433,806	25%	75%	84,924	24%	76%	927,048	43%	57%
1985	199	21%	79%	703,186	63%	37%	43,914	48%	52%	1,057,912	14%	86%	84,760	33%	67%	1,889,971	34%	66%
1986	134	17%	83%	1,247,976	58%	42%	30,548	44%	56%	728,205	17%	83%	75,643	16%	84%	2,082,506	42%	58%
1987	105	11%	89%	515,410	63%	37%	17,959	53%	47%	916,875	9%	91%	59,723	37%	63%	1,510,072	29%	71%
1988	624	11%	89%	1,123,474	58%	42%	30,001	38%	62%	385,735	35%	65%	93,391	35%	65%	1,633,225	51%	49%

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Year	Chinook[a]			Sockeye[a]			Coho[a]			Pink[a]			Chum[a]			Total[a]		
	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS	Number	GN	PS
1989[b]	106	100%	0%	1,284,174	100%	0%	1,613	100%	0%	182,217	100%	0%	19,911	100%	0%	1,488,021	100%	0%
1990	807	17%	83%	1,435,461	52%	48%	18,176	65%	35%	144,927	13%	87%	50,304	36%	64%	1,649,675	48%	52%
1991	821	10%	90%	2,062,718	58%	42%	24,601	52%	48%	2,373,516	5%	95%	83,003	24%	76%	4,544,659	30%	70%
1992	1,056	9%	91%	525,158	53%	47%	24,548	55%	45%	59,268	28%	72%	34,580	43%	57%	644,610	50%	50%
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%	115,938	79%	21%	14,547	25%	75%	146,363	44%	56%	18,836	20%	80%	295,842	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%
Averages[b]:																		
1954–2010	299	19%	80%	425,879	66%	34%	11,407	47%	53%	1,347,284	19%	81%	61,548	21%	79%	1,846,412	30%	70%
2001–2010	359	7%	93%	441,426	61%	39%	8,172	39%	61%	1,683,084	14%	87%	42,060	17%	83%	2,175,069	33%	67%

Note: GN=gillnet; PS=purse seine

[a] ADF&G test fish harvest is not included.

[b] The harvest during 1989 is not included in averages because of fishery restrictions and unusual fishing patterns due to the M/V Exxon Valdez oil spill.

APPENDIX E. WESTSIDE FISHERY SUMMARY

Appendix E1.–Narrative account of the Westside Kodiak salmon fisheries in the Kodiak Management Area, 2011.

INTRODUCTION

Westside Kodiak Harvest Strategy

The Westside Kodiak Salmon Management Plan (*WKSMP*) is the achievement of long-term management strategies which 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 fishermen (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 provides a predictable framework for the harvest of major 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, 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 two distinct areas, the outer cape areas and the inner bays. The Central, North Cape, and Southwest Afognak sections consists 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 the eight bays in the Northwest Kodiak District. From east to west they are the Anton Larsen, Sharatin, Kizhuyak, Terror, Inner Uganik, Spiridon, Zachar, and Inner Uyak bays (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 open and closed based on Karluk Lake early-run sockeye salmon escapement. From June 1 through June 15 the ADF&G is directed to open two mandatory 33-hour fishing periods to gauge the run strength of sockeye salmon returning to Karluk, Ayakulik, and Olga Bay systems. 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 are 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 the pink salmon run. 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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During the August overlap period 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. By this time the majority of the pink salmon have been harvested and Karluk Lake late-run sockeye salmon escapement has begun to increase. From August 25 through 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 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 the ADF&G is directed to open two mandatory 33-hour fishing periods at the same time as those in the Central and North Cape sections. From June 16 through 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 three different areas. In the north there are the Inner and Outer Karluk sections, in the south the Inner and Outer Ayakulik sections and in the middle there are the Halibut Bay and Sturgeon sections. The dominant driving forces in the Inner and Outer Karluk sections are managed on 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 mixture of Olga Bay, 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). This dramatic difference between the two runs has evolved very different management practices throughout the Southwest Kodiak District between even and odd years in July.

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 the ADF&G determines that the early-run Karluk sockeye salmon

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escapement goal will be exceeded. The inability to open the Inner Karluk Section until the early-run escapement goal has been exceeded led to continued overescapement of Karluk Lake sockeye salmon from 1999 to 2005. This produced a highly competitive rearing environment, taxing the forage base of Karluk Lake and affecting the growth of Karluk Lake sockeye salmon. This overescapement led to the poor Karluk Lake sockeye salmon runs in 2008 through 2011.

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 the Inner and Outer Ayakulik sections are opened based on early-run sockeye salmon returning to Red Lake (Ayakulik River). In odd years, from July 16 through August 24, openings are based on late-run sockeye salmon. In even years during this timeframe, Inner and Outer Ayakulik sections are opened based on late-run sockeye salmon and pink salmon returns. The Ayakulik River has one of the largest documented coho salmon runs in the KMA. After approximately August 24 openings 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 due to the mixing of Karluk, Ayakulik, and Olga Bay sockeye salmon stocks. From June 23 through 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 KMA 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, both areas are either opened based on Ayakulik or Karluk late-run sockeye salmon or pink salmon. After August 25, both areas are opened based on either Karluk or Ayakulik late-run sockeye salmon and local coho salmon stocks.

2011 Westside Kodiak Fisheries

The ADF&G's preseason salmon forecasts predicted a surplus (in excess of escapement needs) of early-run sockeye salmon returning to Karluk Lake (100,000 fish), Frazer Lake (181,000 fish), Ayakulik River (413,000 fish; Eggers and Carrol 2011), and early-run Upper Station (31,000 fish).

The Karluk early-run sockeye salmon BEG is 110,000 to 250,000 fish. The 2011 targeted sockeye salmon escapement for Karluk Lake early-run was based on a maximum sustained yield calculation of 150,000 fish (Nemeth et al. 2010). The Ayakulik early-run sockeye salmon sustainable escapement goal (SEG) is 140,000 to 280,000 fish. The 2011 targeted sockeye salmon escapement for the Ayakulik early run was based on a maximum sustained yield calculation of 210,000 fish.

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The Karluk late-run sockeye salmon BEG is 170,000 to 380,000 fish. The 2011 targeted sockeye salmon escapement of 267,000 fish for Karluk Lake late-run was based on a maximum sustained yield calculation (Nemeth et al. 2010). The Ayakulik late-run sockeye salmon SEG is 60,000 to 120,000 fish. The 2011 targeted sockeye salmon escapement of 90,000 fish for Ayakulik late-run was based on a maximum sustained yield calculation (Nemeth et al. 2010).

Due to the forecast of a weak Karluk Lake early-run sockeye salmon and a low cumulative escapement in early June, the first commercial test fishing period in the Northwest Kodiak District was delayed until June 9 and was only 33-hours in duration. The resulting harvest indicated a weaker than expected run of sockeye salmon traveling along the Westside fishery. As prescribed in the WKSMP, a second 33-hour period was allowed beginning June 14 in the Northwest Kodiak District to test the strength of early-run Karluk and local west side sockeye and chum salmon runs. The harvest from this opening indicated continued low sockeye salmon abundance. Throughout June, the sockeye salmon escapement through Karluk weir was very low and there was no indication of any significant numbers of fish in Karluk Lagoon and no additional fishing periods were allowed.

The 2011 Karluk Lake early-run sockeye salmon escapement of 86,642 fish (Table 3; Tiernan 2011) was below the desired range of 110,000 to 250,000 fish (Honnold et al. 2007). From June 1 through July 15, approximately 169,675 sockeye salmon were harvested in the Westside fishery (Table 9). Of this harvest, approximately 6,805 fish were of Karluk Lake origin (Moore 2012).

On July 6 and 13 the Southwest Afognak Section of the Afognak District, the Central, North Cape sections and the majority of the inner bays of the Northwest Kodiak District opened for 105 hours based on the preseason wild stock pink salmon forecast of 21.9 million fish. The inner bays of Kizhuyak, Terror, and Zachar bays were closed due to weak early-run chum salmon escapement. Pink salmon harvests for the first two openings were weak.

With above average pink salmon catches elsewhere on Kodiak Island and an above average forecast the ADF&G opened the Westside on July 20 for 105 hours. The inner bays of Kizhuyak Bay, Terror Bay, Zachar Bay, and Inner Uyak Bay were all kept closed due to weak early-run chum escapement. Pink salmon harvests for the third opening were weak.

A survey flown on July 24 indicated that pink salmon were beginning to show in Terror, Zachar, and Uyak rivers. However, all of these systems still showed weak early-run chum salmon escapement, as well as extremely low water due to little precipitation and minimal winter snowpack. The majority of the systems showed little to no pink salmon escapement; therefore, the ADF&G decided to keep the Westside closed for an extra day and decrease the hours of the next opening. On July 28, the Westside opened for 81 hours. Due to weak early-run chum salmon escapement, low water, and high tides, Spiridon Bay was the only inner bay opened. Pink salmon harvests for the fourth opening were weak.

Early August aerial surveys indicated several systems had early pink salmon escapement. However, due to little precipitation and minimal snow pack several of the rivers were extremely low. For all these reasons the next opening was set at only 57 hours in all the inner bays except Spiridon and Zachar. Even though Sharatin, Terror, and Uyak rivers had early pink salmon

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escapement, due to extremely low water, and high tides, fish were susceptible to backing out and being harvested. It was therefore decided to keep these fisheries closed. Pink salmon harvests for the fifth opening were weak. When the Northwest Kodiak District closed on August 5 the estimated inseason pink salmon escapement totaled approximately 27,000 fish. The total odd year escapement objective for the indexed streams of the Northwest Kodiak District pink salmon was between 220,000 to 660,000 fish.

An aerial survey on August 7 indicated that pink salmon escapement had not increased significantly and was only approximately 93,000 fish with no buildup in the inner bays. Due to low pink salmon escapement the entire Northwest Kodiak District and the Southwest Afognak Section remained closed for 10 days during the peak of the Westside pink salmon run.

During the closure the ADF&G flew several surveys to ensure a pulse of pink salmon was not missed. A survey on August 10 indicated that pink salmon escapement had only modestly picked up with an escapement of approximately 131,000 fish and only small buildups in the inner bays. A survey flown on August 13 indicated that pink salmon runs were still weak with an escapement of approximately 134,000 fish. However, modest showing of pink salmon were beginning to build in the inner bays.

Beginning August 16, the Southwest Afognak Section of the Afognak District and the Central and North Cape sections of the Northwest Kodiak District are managed based on both pink salmon returning to the Northwest Kodiak District and Karluk late-run sockeye salmon. However, during this timeframe all the inner bays of the Northwest Kodiak District were based on local pink and chum salmon.

On August 15, the cumulative late-run sockeye salmon escapement through Karluk weir was 3,695 fish, with a significant buildup of 35,000 to 40,000 sockeye salmon in the lagoon. On August 16 the Southwest Afognak Section, and the Central and North Cape sections of the Northwest Kodiak District opened for 57 hours based on the large buildup of sockeye salmon in Karluk Lagoon. Both Zachar Bay and Spiridon Bay also opened due to ample pink and chum salmon escapement. A survey flown on August 16 indicated that pink salmon runs to the Northwest Kodiak District were still weak (approximately 160,000 fish) however there was an increase of pink salmon in the inner bays. Therefore, the remaining inner bays of the Northwest District (which are managed solely on local returns of pink and chum salmon) remained closed due to poor pink salmon escapement. On August 19 the Southwest Afognak Section, Central, North Cape, Spiridon Bay, and Zachar Bay sections were all extended for an additional 24 hours due to an upgraded Karluk Lagoon estimate of 60,000 sockeye and ample pink and chum salmon escapement to Spiridon and Zachar rivers.

On August 23, the estimated inseason pink salmon escapement to the indexed streams of Northwest Kodiak District totaled approximately 162,000 fish (still well below average), additionally these were approximately 150,000 fish either at the mouths or in the inner bays. Several systems such as Uyak and Terror rivers looked adequate but the majority of the fish were still in the inner bays or at the mouths. On August 23 the Karluk late-run cumulative sockeye salmon escapement was still only 7,036 fish; however the buildup of sockeye sockeye in the lagoon was now 60,000-65,000 fish. On August 23 the Southwest Afognak Section, Central, and

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North Cape Sections opened for 54 hours based on the buildup of sockeye salmon in Karluk Lagoon. However, the majority of the inner bays in the northwest Kodiak District still remained closed because they were below their respective escapement objectives. Again, both Spiridon Bay and Zachar Bay also opened for 54 hours due adequate pink and chum salmon escapement.

Between August 25 and August 26, 66,575 sockeye salmon passed the Karluk River weir bringing the total for August 26 to 73,679 fish. This was well within the average escapement run timing curve for that time of year of between 38,932 and 87,025 fish. On August 27 the Southwest Afognak Section, Halibut Bay, Sturgeon, Outer Karluk, Central, and North Cape sections of the Southwest and Northwest Kodiak districts opened due to adequate Kalruk late-run sockeye salmon escapement. The Spiridon Bay, Zachar Bay, Uyak Bay, and Terror Bay sections of the Northwest Kodiak District opened due to adequate pink and chum salmon escapement. The Inner Uganik Section of the Northwest Kodiak District remained closed due to less than adequate pink salmon escapement. Kizhuyak Bay, Sharatin Bay, and Anton Larsen Bay were kept closed due to low water and the majority of the pink salmon escapement still holding at their respective mouths.

From August 30 through the end of the season the majority of the Northwest Kodiak District was open due to adequate sockeye salmon escapement to the Karluk River. The Karluk late-run sockeye salmon escapement of 230,680 fish was within the desired escapement goal range of 170,000 to 380,000 fish (Table 3; Nemeth et al. 2010) and the Westside post July 15 harvest included 111,170 sockeye salmon.

The 2011 Ayakulik sockeye salmon cumulative escapement lagged early in the season but the passage of over 60,000 fish on June 13 and 14 brought the cumulative escapement into the desired range. A short (six-hour) period was allowed in the Inner Ayakulik Section along with a 57-hour period in the Outer Ayakulik Section on June 15 to harvest fish in excess of escapement needs. During this opening, retention of Chinook salmon over 28 inches was not allowed inorder to conserve fish needed for escapement of both Karluk and Ayakulik systems. Throughout the rest of the early run, there was enough sockeye salmon to meet escapement needs. Through July 15, the cumulative sockeye salmon escapement of 177,480 fish (Tiernan 2011) was within the escapement goal range of 140,000 to 280,000 fish, but slightly below the targeted goal of 190,000 fish (Nemeth et al. 2010).

On July 15, a 57-hour commercial salmon fishing period began in both the Outer Ayakulik and Halibut Bay sections based on a large buildup of sockeye salmon at the mouth of Ayakulik River. Initial catches were strong and almost 40,000 sockeye salmon passed the weir on July 16 and 17 resulting in a cumulative escapement well above the desired range for that date. The fishing period was extended and a nine-hour period was established on July 18 in the Inner Ayakulik Section to harvest fish in excess of escapement needs. Starting July 31 another big push of sockeye salmon passed the weir (over 35,000 in three days) increasing the cumulative to over 72,000. Both Inner and Out Ayakulik sections were open continuously through August 25.

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The Ayakulik weir was operated through September 7. Despite almost continuous fishing allowed in the Outer Ayakulik, Sturgeon and Halibut Bay sections after August 28, harvest effort was sporadic and most of the coho salmon run escaped. The weir estimated a moderately strong cumulative coho salmon escapement of 17,016 fish. The total late-run sockeye salmon escapement was estimated to be 83,661 fish, within the desired escapement goal range of 60,000 to 120,000 salmon (Nemeth et al. 2010).

The total sockeye salmon escapement through the Ayakulik weir (261,141; Table 3; Tiernan 2011) was within the combined early- and late-run escapement goals (200,000 to 400,000 fish; Nemeth et al. 2010). However, the harvest of Ayakulik sockeye salmon (247,544 fish) was below forecasted estimates (413,000 fish; Eggers and Carroll 2011).

The total commercial harvest from Westside Kodiak management units (Southwest Afognak to Ayakulik[1]) was 1,652,442 salmon, including 4,676 Chinook; 507,603 sockeye; 58,970 coho; 946,492 pink; and 134,701 chum salmon in 2,438 landings (Appendix E3). There were 131 seine permit holders that made 639 landings for 2,362 Chinook; 266,241 sockeye; 20,992 coho; 634,912 pink; and 50,823 chum salmon (Appendix E4). There were 91 set gillnet permit holders that made 1,799 landings for 2,314 Chinook; 241,362 sockeye; 37,978 coho; 311,580 pink; and 83,878 chum salmon. Commercial salmon harvests, by gear type, for individual Westside management units can be found in Appendices E5 and E6.

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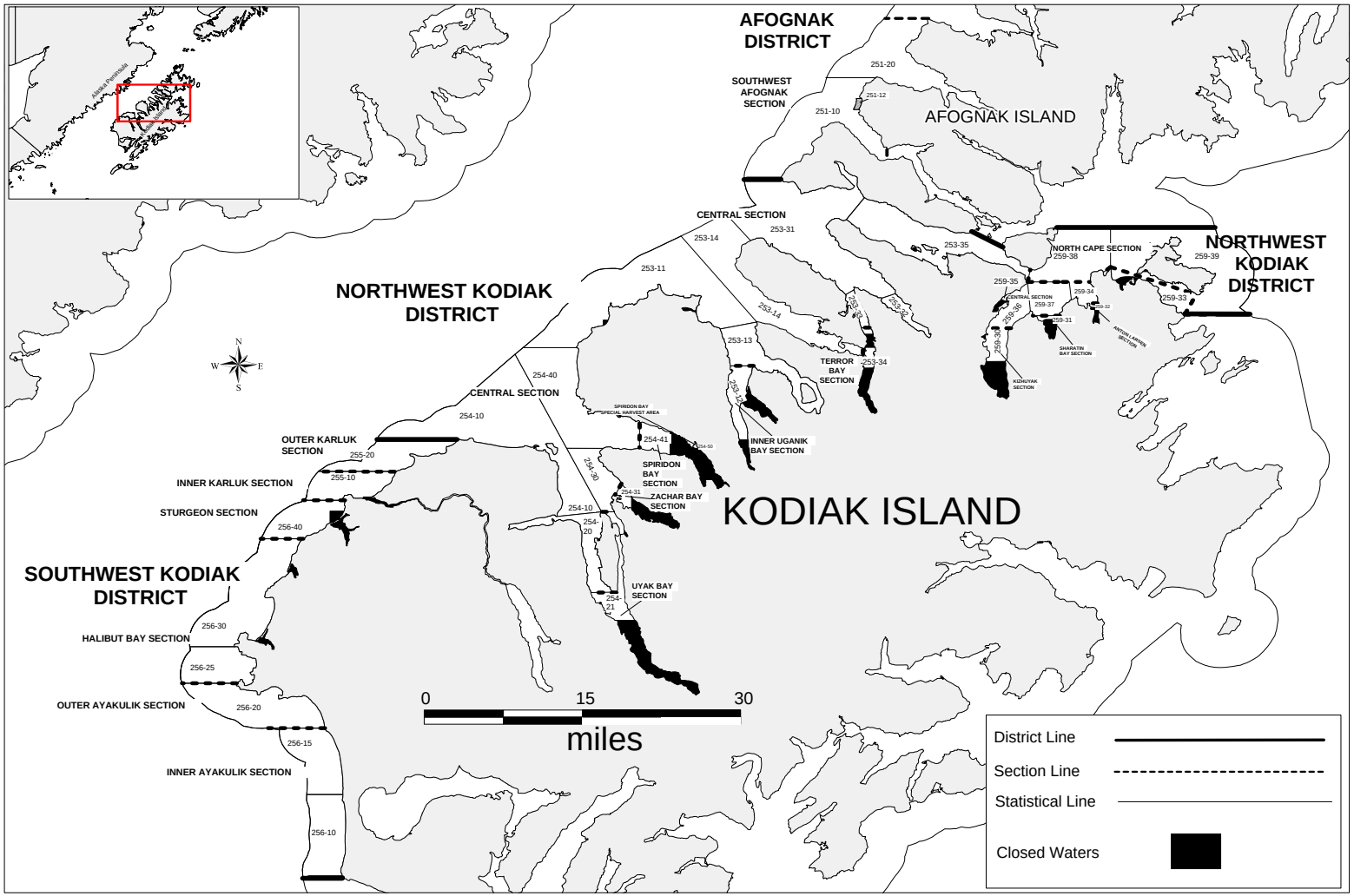
[1] Westside Kodiak salmon harvest totals in Appendix E do not include salmon taken in the SBSHA. Sockeye salmon from an enhancement project return to this area. SBSHA is managed under a separate plan; see Appendix H for a description of the SBSHA fishery. These tables do include sockeye salmon destined 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 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, 1975–2011.

Year	Permits	Landings	Number of Salmon					
			Chinook	Sockeye	Coho	Pink	Chum	Total
1975	274	2,001	50	75,983	14,439	1,441,658	36,358	1,568,488
1976	346	4,678	253	350,403	10,412	4,786,866	91,524	5,239,458
1977	324	3,462	454	363,690	12,619	2,107,769	115,435	2,599,967
1978	385	6,001	1,352	491,503	20,216	6,245,588	134,794	6,893,453
1979	399	5,121	611	185,363	47,043	3,860,734	59,469	4,153,220
1980	413	6,913	397	412,418	44,674	11,347,713	133,117	11,938,319
1981	374	4,810	911	415,405	36,672	3,188,599	247,097	3,888,684
1982	408	6,077	858	427,454	128,718	5,538,196	450,819	6,546,045
1983	398	5,141	2,353	297,330	49,418	1,730,453	374,319	2,453,873
1984	390	8,065	3,634	925,236	104,347	9,291,637	166,069	10,490,923
1985	365	6,097	4,306	920,143	97,516	1,981,000	226,819	3,229,784
1986	392	12,070	3,728	1,632,227	102,304	9,472,330	584,538	11,795,127
1987	380	6,360	2,268	754,943	85,055	1,643,187	261,601	2,747,054
1988	416	11,700	11,848	998,895	141,115	8,574,478	609,946	10,336,282
1989 [a]	5	10	0	3,489	986	1,005	53	5,533
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	8,497	12,795	2,734,413	104,836	4,114,567	267,471	7,234,082
2000	306	7,555	9,382	1,600,262	111,908	5,343,309	379,444	7,444,305
2001	265	6,815	18,317	1,617,700	143,681	3,687,193	381,098	5,847,989
2002	228	5,369	14,921	1,179,697	166,377	9,445,914	250,153	11,057,062
2003	227	7,511	13,775	2,975,163	156,308	5,406,727	329,543	8,881,516
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	8,277	16,139	1,200,357	251,605	20,205,610	402,314	22,076,025
2007	219	6,868	13,384	1,512,091	167,437	8,720,592	219,689	10,633,193
2008	199	3,387	13,124	634,056	92,170	3,732,346	223,658	4,695,354
2009	197	3,505	1,621	577,894	57,364	4,936,957	353,915	5,927,751
2010	235	2,982	6,062	640,339	75,331	3,837,746	227,172	4,786,650
2011	222	2,438	4,676	507,603	58,970	955,492	134,701	1,661,442
Average [a]								
2001–2010	221	6,030	13,212	1,420,815	155,293	8,090,889	323,512	10,003,722
1975–2010	328	7,399	9,019	1,349,438	111,426	6,521,660	295,734	8,287,277

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.

[a] Commercial salmon fisheries were severely restricted in 1989 due to the presence of oil from the M/V Exxon Valdez spill. Averages do not include 1989.

Appendix E4.–Commercial salmon harvest, by gear type and species, for Westside management units, 2011.

			Chinook		Sockeye		Coho		Pink		Chum		Total	
Gear	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Seine	131	639	2,362	22,075	266,241	1,498,546	20,992	136,673	643,912	2,093,752	50,823	342,070	984,330	4,093,116
Average weight				9.35		5.63		6.51		3.25		6.73		
Set Gillnet	91	1,799	2,314	22,176	241,362	1,386,115	37,978	258,039	311,580	1,133,663	83,878	603,927	677,112	3,403,920
Average weight				9.58		5.74		6.79		3.64		7.20		
Grand total	222	2,438	4,676	44,251	507,603	2,884,661	58,970	394,712	955,492	3,227,415	134,701	945,997	1,661,442	7,497,036
Average weight				9.46		5.68		6.69		3.38		7.02		

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), 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, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Southwest Afognak Section													
	14-Jun	3	3	5	61	234	1,385	0	0	0	0	6	44
	7-Jul [a]												
	9-Jul [a]												
	13-Jul	3	3	0	0	500	3,059	14	93	715	2,030	138	1,099
	14-Jul	5	5	24	208	2,400	10,626	37	230	2,148	5,755	475	3,095
	15-Jul	3	3	62	536	2,947	13,665	455	1,656	5,342	15,428	1,215	7,694
	16-Jul	3	3	30	229	2,428	12,485	199	766	3,532	10,366	1,077	6,895
	17-Jul [a]												
	20-Jul												
	21-Jul	6	6	42	468	2,170	12,180	688	3,453	4,225	12,596	1,653	10,565
	22-Jul	4	4	42	284	1,055	5,864	212	1,405	2,337	7,532	997	7,054
	23-Jul	4	4	30	277	838	4,721	216	1,435	2,490	8,986	1,530	11,293
	24-Jul [a]												
	28-Jul	5	5	109	941	1,066	5,882	432	2,801	6,870	24,352	982	6,556
	29-Jul [a]												
	31-Jul	3	3	10	108	681	3,313	135	659	5,941	17,440	609	3,344
	16-Aug [a]												
	17-Aug [a]												
	23-Aug [a]												
	24-Aug	3	3	8	63	33	163	205	1,538	3,056	10,682	53	373
	25-Aug [a]												
Total		22	59	437	3,923	17,014	89,102	3,365	19,604	48,277	153,632	10,297	67,125
Average weight					8.98		5.24		5.83		3.18		6.52

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Nothwest Kodiak District[b]													
	9-Jun	7	7	1	12	1,482	8,314	0	0	7	31	291	2,025
	10-Jun	5	5	5	62	2,135	10,572	0	0	1	2	53	375
	14-Jun	4	4	2	15	1,503	8,721	0	0	13	40	119	790
	15-Jun	9	9	9	58	1,582	9,178	0	0	22	67	142	1,031
	6-Jul	5	5	1	10	2,001	11,232	101	474	973	2,737	563	3,757
	7-Jul	17	18	16	273	5,023	28,158	26	169	2,693	8,236	1,418	9,110
	8-Jul	7	7	13	142	5,306	35,116	80	494	1,281	3,481	420	3,089
	9-Jul	9	10	15	124	8,743	53,328	207	1,301	3,022	7,896	2,046	12,389
	10-Jul	8	9	12	111	2,981	19,280	32	201	796	2,238	465	3,711
	13-Jul	17	17	61	842	8,701	51,077	190	1,337	5,529	18,393	1,160	8,532
	14-Jul	11	11	6	79	5,732	28,817	144	928	3,128	10,256	537	3,841
	15-Jul	13	15	35	343	4,126	27,098	191	1,250	4,455	14,863	727	5,427
	16-Jul	10	10	72	577	3,911	19,909	233	1,502	8,551	24,570	1,526	10,699
	17-Jul	12	12	41	311	3,249	16,540	160	982	4,398	12,721	743	4,740
	20-Jul	8	8	15	195	964	5,730	97	573	2,376	7,130	360	2,346
	21-Jul	10	10	9	113	1,160	6,664	118	757	6,099	19,515	1,441	9,434
	22-Jul	13	13	56	544	1,913	12,113	439	2,791	6,365	19,502	2,090	14,796
	23-Jul	7	7	25	375	804	4,490	206	1,269	6,058	19,972	1,741	11,546
	24-Jul	6	6	3	56	50	293	14	87	1,574	5,288	283	1,849
	28-Jul	8	9	24	281	392	2,045	80	413	8,035	24,336	931	5,202
	29-Jul	5	5	58	657	393	2,166	248	1,705	7,635	22,448	1,096	6,609
	30-Jul	5	5	35	361	184	1,023	130	912	10,138	31,578	572	3,997
	31-Jul	4	4	29	294	143	718	104	521	5,063	15,757	376	1,967
	3-Aug	6	6	254	2,427	1,800	9,690	315	1,991	17,286	54,548	1,483	8,814
	4-Aug	8	8	1	30	301	1,620	309	1,944	21,087	69,217	1,151	7,710
	5-Aug	4	4	49	404	149	879	89	623	10,508	31,527	261	2,005
	16-Aug	19	19	125	1,378	375	1,838	1,798	11,878	55,690	183,328	1,213	8,391
	17-Aug	20	23	44	354	231	1,182	1,030	5,886	54,629	187,482	805	5,624
	18-Aug	17	17	1	11	98	516	389	2,609	43,958	139,743	860	5,687
	19-Aug	18	18	7	51	223	1,118	807	4,950	33,674	110,677	1,237	7,681

-continued-

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Nothwest Kodiak District[b] (cont.)	23-Aug	13	13	3	31	161	841	361	2,609	18,945	65,656	334	2,327
	24-Aug	22	23	19	191	741	4,286	1,243	10,045	31,275	105,172	542	3,759
	25-Aug	15	15	14	128	235	1,204	602	3,892	20,393	66,801	1,453	8,448
	27-Aug	9	9	11	187	348	1,742	1,185	7,939	16,167	53,807	99	634
	28-Aug	5	5	39	338	31	161	655	4,729	15,456	54,290	117	793
	29-Aug	7	7	5	72	28	160	168	1,197	11,078	42,688	78	576
	30-Aug [a]												
	31-Aug	3	3	0	0	90	357	141	1,023	8,797	31,536	42	260
	1-Sep [a]												
	3-Sep	3	4	3	32	1	5	8	45	1,093	3,826	187	1,225
	4-Sep	3	3	0	0	1,583	6,337	519	3,645	1,619	5,348	75	457
	6-Sep [a]												
	7-Sep [a]												
Total		100	392	1,203	12,156	68,939	394,793	13,148	87,362	459,171	1,502,746	29,254	193,006
Average weight					10.10		5.73		6.64		3.27		6.60
Inner & Outer Karluk sections													
	27-Aug [a]												
	28-Aug [a]												
	29-Aug												
	30-Aug [a]												
	31-Aug [a]												
	1-Sep	3	3	11	27	643	2,578	180	1,096	1,460	4,442	58	350
	2-Sep [a]												
	7-Sep	3	3	0	0	974	3,899	531	3,718	483	1,599	18	110
	8-Sep												
	9-Sep	4	4	0	0	788	3,160	222	1,501	544	1,865	15	88
	10-Sep [a]												
Total		11	23	11	27	6,537	29,627	1,366	9,551	5,816	19,073	214	1,380
Average weight					2.45		4.53		6.99		3.28		6.45

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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													
	15-Jun	34	34	59	644	18,049	103,753	0	0	114	356	184	1,396
	16-Jun	6	6	3	18	1,366	7,614	0	0	5	14	48	293
	17-Jun	7	7	0	0	1,139	6,209	0	0	11	35	78	488
	15-Jul	6	6	22	261	8,235	43,496	66	518	1,918	6,113	309	2,458
	16-Jul	5	5	15	169	9,159	49,286	18	148	1,276	3,864	208	1,525
	17-Jul	5	5	112	727	7,585	42,182	286	1,694	8,058	24,032	1,226	9,201
	18-Jul	15	15	91	905	35,456	198,615	118	763	7,060	19,853	698	4,911
	19-Jul	6	6	43	460	3,572	21,671	273	1,647	9,719	29,491	1,294	9,118
	20-Jul	7	8	30	211	8,836	47,455	199	1,330	4,935	13,221	584	4,214
	21-Jul	7	7	145	1,042	4,046	22,478	434	2,712	7,552	23,004	2,440	19,551
	22-Jul	5	5	64	654	4,826	24,253	220	1,516	3,394	11,779	1,072	8,506
	23-Jul	3	3	54	345	1,398	7,727	146	885	4,123	12,446	638	4,761
	24-Jul	9	9	36	245	9,555	43,213	324	1,995	9,748	30,292	1,534	9,199
	28-Jul	4	4	17	155	1,095	5,966	88	621	1,681	6,413	111	923
	30-Jul [a]												
	31-Jul [a]												
	1-Aug	3	3	0	0	16,563	103,601	0	0	115	382	0	0
	2-Aug	19	19	3	25	14,323	91,826	14	97	7,701	29,413	41	259
	3-Aug	4	4	1	4	1,248	7,015	5	29	2,114	7,188	16	113
	6-Aug [a]												
	7-Aug [a]												
	8-Aug [a]												
	9-Aug [a]												
	10-Aug	3	3	0	0	4,049	21,280	45	548	8,455	27,724	41	263
	11-Aug [a]												
	12-Aug	3	3	0	0	1,282	8,048	70	407	12,780	42,189	70	426
	13-Aug [a]												
	14-Aug	3	3	0	0	1,810	11,340	75	418	6,225	21,437	74	440
	19-Aug [a]												

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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 (cont.)	21-Aug [a]												
	22-Aug [a]												
	23-Aug [a]												
	24-Aug [a]												
	25-Aug [a]												
	28-Aug [a]												
	30-Aug [a]												
Total		57	176	711	5,969	173,751	985,024	3,113	20,156	130,648	418,301	11,058	80,559
Average weight					8.39		5.67		6.47		3.20		7.28
Grand Total		131	639	2,362	22,075	266,241	1,498,546	20,992	136,673	643,912	2,093,752	50,823	342,070

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

[a] Confidential.

[b] Does not include Spiridon Special Harvest Area (254-50) or Settler Cove (259-35).

Appendix E6.–Set gillnet salmon harvest, by species for Westside Management Plan units, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest													
Kodiak District[a]													
	9-Jun	28	32	15	148	4,924	28,108	0	0	2	7	279	2,137
	10-Jun	41	56	44	453	10,912	62,238	0	0	2	8	864	6,319
	14-Jun	38	40	10	130	6,520	36,925	0	0	0	0	828	5,930
	15-Jun	49	71	42	439	13,111	74,448	2	13	6	21	1,864	13,004
	6-Jul	37	43	112	956	10,319	59,425	23	133	464	1,595	1,610	11,617
	7-Jul	49	59	118	1,295	16,513	94,165	96	561	659	2,177	2,545	18,848
	8-Jul	49	52	58	579	13,527	79,141	118	706	706	2,632	2,509	18,644
	9-Jul	48	53	51	565	11,114	66,352	81	472	647	2,506	2,049	15,468
	10-Jul	37	43	62	669	7,876	45,203	82	518	677	2,561	1,732	12,887
	13-Jul	36	45	84	798	14,770	86,601	161	1,039	1,433	5,266	2,313	17,537
	14-Jul	49	57	168	1,498	20,445	117,994	490	3,076	3,514	13,093	4,848	37,224
	15-Jul	50	54	87	792	12,306	72,251	433	2,808	2,688	10,098	4,224	31,941
	16-Jul	49	52	132	1,151	9,520	55,899	400	2,768	2,692	10,437	3,688	26,734
	17-Jul	45	49	136	1,308	8,254	48,534	389	2,495	2,859	11,135	3,232	24,257
	20-Jul	37	41	73	664	4,006	22,997	388	2,476	2,259	8,668	2,117	14,411
	21-Jul	49	56	151	1,511	9,689	55,713	1,013	6,699	4,796	18,303	4,782	33,547
	22-Jul	56	61	152	1,521	9,001	50,559	949	6,404	4,322	16,756	5,481	37,494
	23-Jul	54	57	117	1,092	6,234	36,106	1,020	6,910	5,153	20,027	5,260	36,269
	24-Jul	42	44	97	1,103	6,985	39,294	892	5,841	6,695	26,014	5,755	40,908
	28-Jul	37	42	31	280	4,653	25,776	1,049	6,993	5,785	22,069	2,423	16,469
	29-Jul	54	56	99	923	5,684	31,027	1,591	10,532	10,005	37,329	4,116	28,743
	30-Jul	45	45	78	699	4,230	24,202	1,363	8,842	10,969	39,847	3,968	27,970
	31-Jul	45	48	139	1,002	3,880	21,744	1,013	7,130	9,427	34,705	2,969	21,116
	3-Aug	25	32	37	402	2,031	11,576	734	4,634	10,113	37,280	1,277	8,753
	4-Aug	52	56	58	613	2,953	17,336	1,677	10,456	15,719	56,636	2,764	20,393
	5-Aug	44	51	76	689	4,672	26,865	1,195	8,215	19,929	72,556	3,183	22,799
	16-Aug	36	39	6	71	2,324	12,443	1,442	9,363	20,697	76,485	887	6,054
	17-Aug	45	53	7	84	3,624	20,324	2,500	16,822	32,382	118,530	1,597	11,798
	18-Aug	40	45	9	92	2,022	11,005	2,240	15,244	27,119	98,119	1,388	10,446
	19-Aug	30	33	5	50	896	5,211	1,570	10,315	15,514	54,612	983	7,715

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Appendix E6.–Page 2 of 2.

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northwest Kodiak District[a] (cont.)	23-Aug	34	37	3	29	2,340	12,848	1,480	10,315	18,297	67,341	563	3,802
	24-Aug	26	27	4	66	915	4,949	1,294	8,424	7,698	27,852	226	1,625
	25-Aug	30	32	15	113	910	4,848	1,313	9,092	10,663	38,125	322	2,222
	27-Aug	21	21	5	41	378	2,252	911	6,890	10,509	36,961	117	810
	28-Aug	20	22	3	29	446	2,808	992	7,305	6,449	22,370	95	647
	29-Aug	32	37	1	12	415	2,459	1,775	12,916	8,942	31,048	198	1,501
	30-Aug	19	19	13	108	540	3,459	483	3,513	3,300	11,430	83	599
	31-Aug	16	17	1	11	394	2,076	699	4,639	3,340	11,393	73	481
	1-Sep	21	21	3	40	1,307	6,990	2,144	14,205	10,645	36,535	297	2,251
	2-Sep	11	11	2	25	282	1,506	549	3,745	1,621	5,516	53	347
	3-Sep	22	28	4	62	267	1,533	1,464	10,456	6,502	23,188	185	1,320
	4-Sep	16	16	1	10	59	319	540	3,904	2,309	8,201	54	377
	5-Sep	4	4	1	7	3	17	59	427	506	1,830	5	35
	6-Sep	6	6	1	10	35	193	405	3,152	713	2,497	15	100
	7-Sep	10	10	1	15	45	234	420	3,294	1,369	4,736	21	132
	8-Sep	5	5	0	0	18	94	134	1,084	366	1,221	6	38
	9-Sep	12	13	2	21	6	34	317	2,546	953	3,345	18	135
	11-Sep	3	3	0	0	4	22	37	254	121	420	4	28
	13-Sep	4	4	0	0	2	6	45	369	34	137	7	39
	15-Sep [b]												
Total		91	1,799	2,314	22,176	241,362	1,386,115	37,978	258,039	311,580	1,133,663	83,878	603,927
Average weight					9.58		5.74		6.79		3.64		7.20

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

[a] Does not include Spiridon Special Harvest Area (254-50) or Settler Cove (259-35).

[b] Confidential.

APPENDIX F. NORTH SHELIKOF FISHERY SUMMARY

Appendix F1.–Narrative account of the North Shelikof Strait sockeye salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

In 1988 there was a significant harvest of large (greater than six pounds) 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). Though the Cook Inlet sockeye salmon run was at a record level, the BOF felt that this was an expanding, nontraditional harvest pattern. In 1990, the *North Shelikof Strait Sockeye Salmon Management Plan* (NSSSSMP; 5 AAC 18.363) was adopted into regulation.

The NSSSSMP limits purse seine fishing opportunities in those sections of the KMA bordering the north Shelikof Strait (those waters of Shelikof Strait from Dakavak Bay 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 July 25 and establishes two specific sockeye salmon harvest "triggers" for defined management units within the affected zone. These triggers were established to protect Cook Inlet-bound sockeye salmon that migrate through the Shelikof Strait. The Southwest Afognak management unit (comprised of the Southwest Afognak Section) and the North Shelikof management unit (comprised of the 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) has separate sockeye salmon harvest triggers (Appendix F2). If the sockeye salmon harvest within either of these units reaches an established cap, then commercial fishing opportunities within that unit are restricted.

By regulation, "seaward zones" are established in each management unit. These zones are comprised of all waters seaward of a line which is drawn from cape to cape.[1] The seaward zone of the Southwest Afognak management unit closes to fishing if 50,000 sockeye salmon are harvested from July 6 through July 25. The seaward zone of the North Shelikof management unit closes to fishing if 15,000 sockeye salmon are harvested from July 6 through July 25. 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; Dinnocenzo and Jackson 2011).

In the nineteen 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 three times (in 1992, 1993, and 2003; Appendix F4).

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[1] 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.

2011 Summary

With the expectation of a strong pink salmon run in 2011 (Eggers and Carroll 2011), three 105-hour fishing periods were scheduled preseason in the Southwest Afognak management unit and that portion of the North Shelikof management units including the Northwest Afognak and Shuyak Island sections during the period when the NSSSSMP was in effect (July 6 through July 25; Dinnocenzo and Jackson 2011). The NSSSSMP prescribes 57-hour fishing periods in that portion of the North Shelikof management unit in the Mainland District and three fishing periods were scheduled to open simultaneously with openings elsewhere in the North Shelikof Strait fishery, primarily to help disperse the fleet.

First Fishing Period (July 6 to 10)

The first fishing period was characterized by low sockeye salmon abundance. Less than three permit holders made landings in the North Shelikof management unit and the harvest was confidential (Appendix F5).

Fishing was slow and effort was light in the Southwest Afognak management unit with three permit holders harvesting 3 Chinook; 1,302 sockeye; 22 coho; 433 pink; and 745 chum salmon in the first period (Appendix F6).

Second Fishing Period (July 13 to 17)

The number of the boats fishing in the North Shelikof management unit during this period increased from the first period and so did the harvest. Seven permit holders in the North Shelikof management unit caught 202 Chinook; 7,023 sockeye; 254 coho; 2,980 pink; and 1,540 chum salmon (Appendix F5).

During the second period in the Southwest Afognak management unit, the fleet increased to 10 boats which harvested 116 Chinook; 8,275 sockeye; 705 coho; 11,737 pink; and 2,905 chum salmon (Appendix F6).

Third Fishing Period (July 20 to 24)

Effort and harvest increased sharply during the third period mostly on the mainland side of the North Shelikof management unit. The seaward zones were closed to fishing at 1:00 PM on July 22. The inshore areas of the mainland portion of the North Shelikof Management Unit closed at 9:00 PM July 22. There was no effort in the Northwest Afognak and Shuyak Island sections on July 23 or 24 despite the fact that they were still open. Twenty-one permit holders harvested 184 Chinook; 19,684 sockeye; 2,021 coho; 13,164 pink; and 7,146 chum salmon (Appendix F5).

Effort increased slightly during this period in the Southwest Afognak Section, but it was apparent that the 50,000 sockeye salmon harvest trigger would not be reached. From July 20 through July 24, 12 permit holders harvested 137 Chinook; 4,436 sockeye; 1,301 coho; 10,016 pink; and 4,456 chum salmon in the Southwest Afognak unit (Appendix F6).

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Season Totals

The 2011 North Shelikof management unit harvest for the time period of July 6 through July 25 totaled 386 Chinook; 28,805 sockeye; 2,275 coho; 16,162 pink; and 8,688 chum salmon, taken by 26 permit holders (Appendix F3 and F5). The average weight of the sockeye salmon harvested in the North Shelikof Unit was 6.2 pounds.

The 2011 Southwest Afognak Unit harvest for the time period of July 6 through July 25 totaled 282 Chinook; 14,672 sockeye; 2,107 coho; 23,355 pink; and 8,257 chum salmon, taken by 17 permit holders (Appendices F4 and F6). The average weight of the sockeye salmon harvested in the Southwest Afognak management unit was 5.2 pounds (Appendix F6).

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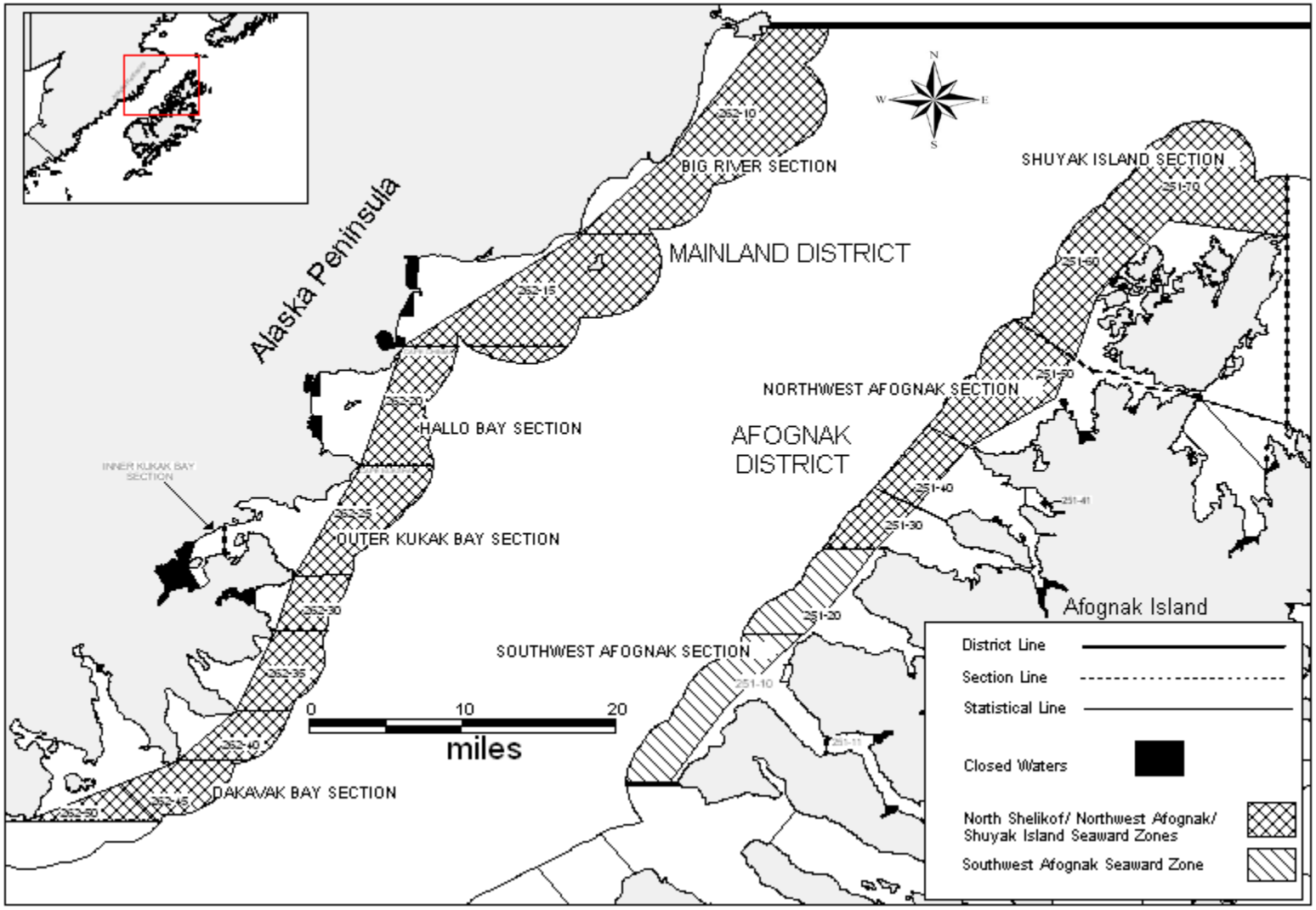

Appendix F2.–Map showing the North Shelikof management area.

Appendix F3.–Summary of fishing time, zone closures, effort, and harvest by species, for the North Shelikof management unit of the Kodiak Management Area, 1991–2011.

	Mainland		N. Afognak											
	# of days open to	# of days Seaward Zone	# of days open to	# of days Seaward Zone	Zone Closure		Sockeye Harvest at time of zone	Number of	Total Salmon Harvest by Species–July 6 through July 25					Upper Cook Inlet sockeye harvest (in
Year	fishing	closed	fishing	closed	Date	Time	closure	Vessels	Chinook	Sockeye	Coho	Pink	Chum	millions)
1991	7.1	0.0	13.1	0.0	none	none	no closure	42	2,500	18,800	2,700	44,800	3,800	2.2
1992	7.1	5.1	9.1	7.1	7/8	1:00 PM	13,500	77	900	128,400	3,100	24,300	12,000	8.9
1993	7.1	4.7	13.8	8.9	7/10	5:00 PM	15,220	89	1,200	78,400	2,000	75,600	4,200	4.7
1994	7.1	2.8	9.1	4.8	7/14	11:00 AM	22,830	58	165	38,800	2,400	52,000	10,500	3.5
1995	7.1	3.3	13.3	8.5	7/13	10:00 PM	15,770	77	150	37,400	1,260	178,800	16,590	2.9
1996	7.1	4.3	7.1	4.3	7/15	10:00 PM	11,675	77	260	73,720	1,820	30,050	14,585	3.9
1997	7.1	4.9	10.1	7.9	7/8	5:00 PM	19,850	80	1,940	59,140	1,840	38,190	4,550	4.1
1998	7.1	2.4	10.1	4.4	7/16	9:00 PM	17,812	39	140	40,630	5,380	59,535	6,370	1.2
1999	7.1	3.3	10.1	6.4	7/13	10:00 PM	13,021	45	310	30,830	230	31,920	7,795	2.7
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	7/16	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	7/15	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	7/8	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	7/13	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	7/13	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	7/14	NOON	15,000	31	482	82,538	8,312	146,445	33,075	2.4
2007	7.1	4.7	13.8	8.9	7/8	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	7/15	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	7/8	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	7/22	1:00 PM	25,625	26	386	28,805	2,275	16,162	8,688	5.4

Note: In 1988, the Upper Cook Inlet sockeye salmon run was strong, with a commercial harvest was approximately 6,800,000 sockeye salmon. In the Kodiak Area, within the North Shelikof management unit from 7/6–7/25, 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 F4.–Summary of fishing time, zone closures, effort, and harvest by species, for the Southwest Afognak management unit of the Kodiak Management Area, 1991–2011.

Year	# of days open to fishing	# of days Seaward Zone closed	Zone Closure Date	Zone Closure Time	Sockeye Harvest at time of zone closure	Number of Vessels	Total Salmon Harvest by Species–July 6 through July 25 Chinook	Sockeye	Coho	Pink	Chum	Upper Cook Inlet sockeye harvest (in millions)
1991	13.1	0.0	none	none	no closure	55	300	34,200	3,600	100,700	4,000	2.2
1992	9.1	4.7	7/14	1:00 PM	48,200	84	300	50,600	600	30,000	6,800	8.9
1993	13.6	7.7	7/14	1:00 PM	45,900	87	860	74,000	7,100	243,000	7,400	4.7
1994	9.6	0.0	none	none	no closure	45	360	13,600	1,000	64,300	3,100	3.5
1995	13.6	0.0	none	none	no closure	64	760	21,360	1,750	490,510	22,200	2.9
1996	7.6	0.0	none	none	no closure	32	185	10,510	803	79,205	10,785	3.9
1997	10.6	0.0	none	none	no closure	61	1,500	18,120	1,760	62,730	8,440	4.1
1998	10.6	0.0	none	none	no closure	22	240	10,340	2,290	82,685	1,900	1.2
1999	10.6	0.0	none	none	no closure	38	700	18,725	375	41,960	4,720	2.7
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	7/16	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

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 7/6–7/25, 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 F5.–Daily salmon harvest by species for the North Shelikof management units of the North Shelikof Strait Sockeye Salmon Management Plan, 2011.

			Chinook		Sockeye		Coho		Pink		Chum	
Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First Period (July 6–July 10)												
9-Jul [a]												
10-Jul [a]												
Total [a]												
Avg. Wt.												
Second Period (July 13–17)												
13-Jul	4	4	98	486	1,446	9,111	165	1,237	1,631	4,887	645	4,756
14-Jul [a]												
15-Jul	3	3	104	656	4,009	25,538	89	442	1,040	2,977	655	4,778
17-Jul [a]												
Total	7	10	202	1,142	7,023	43,815	254	1,679	2,980	8,791	1,540	11,455
Avg. Wt.				5.65		6.24		6.61		2.95		7.44
Third Period (July 20–24)												
20-Jul	14	14	123	796	10,938	70,759	1,111	7,265	5,689	16,031	2,780	20,817
21-Jul	5	5	6	90	3,066	20,182	185	1,139	1,396	4,135	491	3,481
22-Jul	15	15	55	478	5,680	33,460	725	4,521	6,079	25,778	3,875	23,825
Total	21	34	184	1,364	19,684	124,401	2,021	12,925	13,164	45,944	7,146	48,123
Avg. Wt.				7.41		6.32		6.40		3.49		6.73
North Shelikof Management Harvest July 6–25												
Total	26	46	386	2,506	28,805	179,079	2,275	14,604	16,162	54,774	8,688	59,590
Avg. Wt.				6.49		6.22		6.42		3.39		6.86

[a] Confidential.

Appendix F6.–Daily salmon harvest by species, in the Southwest Afognak management units of the North Shelikof Strait Sockeye Salmon Management Plan, 2011.

			Chinook		Sockeye		Coho		Pink		Chum	
Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
First Period (July 6-10)												
7-Jul [a]												
9-Jul [a]												
Total	3	3	3	19	1,302	8,141	22	177	433	1,174	745	3,464
Avg. Wt.				6.33		6.25		8.05		2.71		4.65
Second Period (July 13-17)												
13-Jul	3	3	0	0	500	3,059	14	93	715	2,030	138	1,099
14-Jul	5	5	24	208	2,400	10,626	37	230	2,148	5,755	475	3,095
15-Jul	3	3	62	536	2,947	13,665	455	1,656	5,342	15,428	1,215	7,694
16-Jul	3	3	30	229	2,428	12,485	199	766	3,532	10,366	1,077	6,895
17-Jul [a]												
Total	10	16	142	1,226	8,934	43,705	784	3,337	12,906	37,541	3,056	19,979
Avg. Wt.				8.63		4.89		4.26		2.91		6.54
Third Period (July 20-24)												
20-Jul [a]												
21-Jul	6	6	42	468	2,170	12,180	688	3,453	4,225	12,596	1,653	10,565
22-Jul	4	4	42	284	1,055	5,864	212	1,405	2,337	7,532	997	7,054
23-Jul	4	4	30	277	838	4,721	216	1,435	2,490	8,986	1,530	11,293
24-Jul [a]												
Total	12	18	137	1,272	4,436	24,691	1,301	7,460	10,016	33,166	4,456	30,836
Avg. Wt.				9.28		5.57		5.73		3.31		6.92
Season												
Total	17	37	282	2,517	14,672	76,537	2,107	10,974	23,355	71,881	8,257	54,279
Avg. Wt.				8.93		5.22		5.21		3.08		6.57

[a] Confidential.

APPENDIX G. EASTSIDE AFOGNAK FISHERY SUMMARY

Appendix G1.–Narrative account of the Eastside Afognak salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

In 1990 the BOF adopted the *Eastside Afognak 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 eastside 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 which are managed in each of these sections throughout the fishing season.

2011 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. A strong return of sockeye salmon was apparent early in the season and the Southeast Afognak Section was opened with the initial opening for KMA sockeye salmon on June 9. Closed waters for both the subsistence and commercial fisheries were reduced to the stream terminus of Afognak River. The run continued to be strong and the Southeast Afognak Section stayed open to continuous fishing until July 17. After July 17 fishing time in the Southeast Afognak Section occurred at the same time as most of the Afognak District with normal closed waters. A total of 22 permit holders harvested three Chinook; 13,960 sockeye; 547 coho; 8,695 pink; and 396 chum salmon (Appendix G3). The 2011 sockeye salmon escapement into Afognak Lake was 49,193 fish (Table 4; Tiernan 2011), which was within the escapement goal range of 20,000 to 50,000 fish (Nemeth et al. 2010).

The commercial salmon fishery targeting Kitoi Bay Hatchery fish began on June 9 with the last delivery occurring on September 20. In fisheries targeting the Kitoi Bay Hatchery return, which include the Duck Bay, Izhut Bay, Inner Kitoi, and Outer Kitoi Bay sections, 114 permit holders harvested 1,673 Chinook; 238,532 sockeye; 68,575 coho; 2,171,253 pink; and 320,532 chum salmon (Appendix G3). The hatchery pink, coho, and chum salmon harvests were below harvest forecasts (Table 9; Eggers and Carroll 2011), but the sockeye salmon harvest was stronger than expected.

There was a cost recovery fishery near the Kitoi Bay Hatchery, with the harvest sold by Kodiak Regional Aquaculture Association. The cost recovery fishery took approximately 1.64 million pink salmon (5.1 million pounds), about 76% of the 2011 Kitoi Bay Hatchery pink salmon harvest. In 2011, 11,812 sockeye, 7,488 coho, and 28,542 chum salmon were also harvested in the cost recovery fishery.

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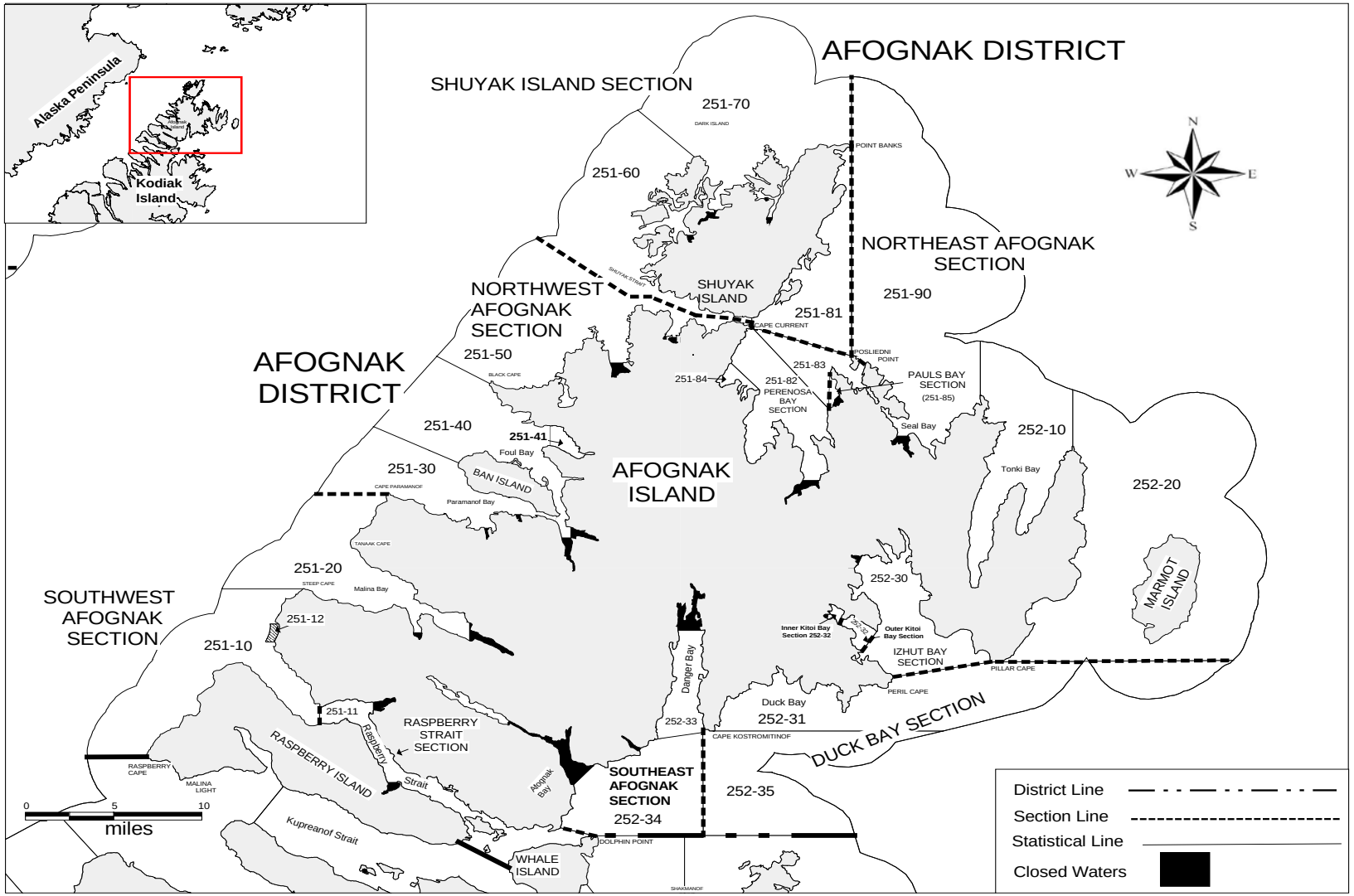

Appendix G2.–Map of the Afognak District of the Kodiak Management Area.

Appendix G3.–Daily salmon harvest, by species, for the management units of the East Afognak Management Plan, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Raspberry Strait Section 251-11													
Total		0	0	0	0	0	0	0	0	0	0	0	0
Average weight													
Southeast Afognak													
Section	9-Jun	4	4	0	0	874	4,016	0	0	0	0	0	0
252-34 & 33	10-Jun	3	3	0	0	1,422	7,484	0	0	0	0	0	0
	11-Jun	3	4	0	0	1,709	8,965	0	0	0	0	0	0
	12-Jun [a]												
	13-Jun	4	4	0	0	1,776	8,776	0	0	0	0	0	0
	14-Jun [a]	2	2	0	0	596	2,899	0	0	0	0	0	0
	15-Jun [a]												
	16-Jun	3	3	0	0	1,277	5,571	0	0	0	0	72	430
	17-Jun [a]												
	18-Jun [a]												
	20-Jun [a]												
	21-Jun [a]												
	24-Jun	3	3	0	0	691	3,601	0	0	16	48	1	7
	25-Jun [a]												
	26-Jun [a]												
	27-Jun [a]												
	28-Jun [a]												
	9-Jul [a]												
	10-Jul	3	3	3	19	3,264	20,267	150	842	362	1,782	220	1,546
	3-Aug [a]												
	26-Aug [a]												
Total		22	41	3	19	13,960	74,288	547	3,322	8,695	29,348	396	2,551
Average weight					6.33		5.32		6.07		3.38		6.44

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Appendix G3.–Page 2 of 7.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Izhut Bay Section													
252-30	9-Jun [a]												
	10-Jun [a]												
	12-Jun [a]												
	15-Jun [a]												
	16-Jun [a]												
	17-Jun [a]												
	18-Jun	4	4	2	15	88	601	0	0	0	0	335	2,250
	19-Jun	7	7	3	20	490	2,565	0	0	13	39	1,053	6,826
	20-Jun	4	4	0	0	263	1,414	0	0	7	25	978	5,134
	21-Jun [a]												
	23-Jun [a]												
	24-Jun	5	5	9	56	409	2,020	3	17	47	123	3,875	23,659
	25-Jun	4	4	16	73	806	4,255	0	0	56	145	4,434	27,851
	26-Jun [a]												
	27-Jun	8	8	22	117	2,275	11,493	14	72	387	1,012	10,365	60,891
	28-Jun	3	3	0	0	210	1,116	0	0	0	0	1,285	8,267
	29-Jun	8	8	7	32	788	3,960	7	29	97	286	5,271	33,233
	30-Jun	5	5	6	48	949	5,183	4	24	113	323	6,313	41,312
	1-Jul	11	11	17	98	1,432	6,940	18	93	300	793	11,599	80,277
	2-Jul	6	6	13	130	1,010	5,333	31	221	319	932	7,880	46,562
	3-Jul	3	3	0	0	647	3,428	19	103	171	405	3,885	24,377
	4-Jul [a]												
	5-Jul [a]												
	6-Jul	6	6	2	34	3,050	19,398	62	467	988	3,249	5,414	39,626
	7-Jul	4	4	1	17	1,376	8,678	33	248	503	1,452	1,838	12,351
	8-Jul	12	12	2	19	15,055	95,690	161	935	3,701	10,945	12,205	84,308
	9-Jul	4	4	1	30	6,554	40,403	165	886	2,509	7,539	7,139	49,070
	10-Jul	11	11	1	17	10,152	64,060	163	1,132	2,669	8,180	7,633	54,622
	18-Jul [a]												
	19-Jul [a]												
	21-Jul [a]												
	23-Jul [a]												

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Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Izhut Bay Section													
252-30	24-Jul	6	7	1	21	1,133	5,987	146	812	2,946	10,093	642	4,304
(cont.)	25-Jul	3	3	0	0	638	4,201	77	448	1,750	4,862	475	2,840
	26-Jul	3	3	0	0	766	4,151	38	227	2,689	7,790	657	4,366
	27-Jul [a]												
	28-Jul	4	4	0	0	543	2,927	47	314	4,882	14,770	313	1,889
	29-Jul	4	4	0	0	542	2,895	53	345	3,885	13,176	200	1,248
	30-Jul [a]												
	31-Jul	3	3	0	0	298	1,453	31	148	2,874	9,094	115	590
	26-Aug	13	13	0	0	42	195	3,242	23,045	47,229	154,310	43	264
	27-Aug	8	9	2	12	18	84	2,533	18,864	22,816	75,775	30	194
	28-Aug	7	7	0	0	28	135	3,069	22,698	14,202	46,645	19	105
	29-Aug	10	11	0	0	9	37	2,724	17,856	10,504	33,550	11	62
	30-Aug	13	15	0	0	20	94	3,677	24,812	14,072	49,168	16	90
	31-Aug	8	9	0	0	4	16	1,277	9,369	7,144	25,270	2	11
	1-Sep	9	9	0	0	7	28	1,257	9,529	5,595	18,008	4	19
	2-Sep [a]												
	3-Sep	7	7	0	0	3	14	622	4,446	3,959	12,678	4	25
	4-Sep	5	5	0	0	6	15	552	4,673	2,143	7,333	1	5
	6-Sep	3	4	0	0	2	7	484	4,088	2,893	9,002	0	0
	8-Sep	3	3	0	0	0	0	519	4,122	849	2,692	0	0
	9-Sep [a]												
	10-Sep [a]												
	11-Sep [a]												
	14-Sep [a]												
	16-Sep [a]												
Total		73	251	124	871	53,736	320,872	23,077	162,494	170,245	554,384	102,197	665,572
Average weight					7.02		5.97		7.04		3.26		6.51

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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 Section													
252-31 & 35	9-Jun [a]												
	13-Jun [a]												
	14-Jun [a]												
	15-Jun [a]												
	16-Jun [a]												
	17-Jun [a]												
	18-Jun	6	6	21	106	2,674	11,870	2	10	203	586	1,125	7,361
	20-Jun [a]												
	21-Jun	3	3	10	42	1,051	5,338	5	27	330	938	678	4,069
	22-Jun	3	3	2	18	467	2,623	3	20	115	340	366	2,561
	23-Jun	5	5	1	7	745	4,000	0	0	241	717	483	3,028
	24-Jun	6	7	15	84	973	5,300	0	0	361	1,012	1,547	9,405
	25-Jun	5	5	38	229	1,137	5,899	0	0	476	1,308	2,118	13,312
	26-Jun	7	7	38	225	1,487	7,690	31	160	691	1,771	1,429	8,697
	27-Jun	4	4	5	33	835	4,550	11	64	352	1,013	2,253	15,215
	28-Jun [a]												
	29-Jun	5	5	3	22	629	3,355	22	84	334	898	3,165	19,882
	30-Jun	4	4	14	69	1,412	6,646	32	199	434	1,518	2,927	18,005
	1-Jul	7	7	4	13	1,422	7,799	49	282	698	1,974	7,018	47,090
	2-Jul	11	11	5	34	3,105	16,137	80	514	934	2,760	9,235	75,518
	3-Jul	10	10	37	128	4,970	27,132	319	1,676	2,082	5,842	15,919	108,028
	4-Jul	16	17	111	500	5,584	30,037	582	3,302	2,431	6,808	18,124	128,668
	5-Jul	6	6	7	74	2,544	13,331	374	1,809	752	2,118	12,630	60,710
	6-Jul	11	12	11	107	5,325	28,764	256	1,478	2,184	6,265	11,449	78,530
	7-Jul	14	14	27	239	10,102	58,020	423	2,640	4,308	12,522	12,418	72,213
	8-Jul	10	11	13	131	15,836	94,547	308	1,983	4,497	13,451	5,498	36,674
	9-Jul	21	22	19	142	33,930	190,763	1,057	7,177	9,247	26,949	10,512	77,986
	10-Jul	27	27	958	5,731	25,805	157,220	1,334	8,235	6,301	18,814	10,478	71,853
	11-Jul	14	14	3	40	9,689	49,602	439	2,491	1,730	5,239	2,085	13,286
	12-Jul	7	7	9	98	8,149	41,420	634	3,350	2,588	7,459	3,791	25,576
	13-Jul	8	8	18	138	3,943	21,862	515	3,075	1,700	5,209	4,263	26,992
	14-Jul	13	13	15	106	4,356	25,280	409	2,481	3,992	11,106	2,406	17,045

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Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Duck Bay Section													
252-31 & 35 (cont.)	15-Jul	5	5	0	0	1,518	8,964	157	861	1,875	5,206	809	5,488
	16-Jul	11	11	8	131	3,265	19,534	306	1,897	4,057	12,533	2,153	14,009
	17-Jul	7	8	4	55	2,153	11,685	194	1,186	1,066	3,614	1,476	11,055
	18-Jul	9	9	79	328	2,831	15,484	458	2,682	3,576	10,140	2,595	16,915
	19-Jul [a]												
	20-Jul	5	5	8	49	1,331	7,111	174	1,047	1,790	5,170	1,899	11,595
	21-Jul	4	4	4	47	359	1,944	147	797	1,723	5,273	543	3,582
	22-Jul	5	6	1	22	421	2,396	132	723	866	2,752	537	4,162
	23-Jul	3	3	0	0	296	1,542	264	1,324	2,943	8,170	1,290	6,228
	24-Jul [a]												
	26-Jul [a]												
	27-Jul	7	7	1	4	990	5,100	163	859	6,054	18,436	872	4,592
	28-Jul	7	7	0	0	1,010	5,209	311	1,574	7,558	24,909	804	4,625
	29-Jul	5	5	4	71	635	3,507	91	480	5,159	18,810	388	2,412
	30-Jul	5	5	3	47	353	1,895	93	525	7,101	20,480	351	1,971
	31-Jul	5	5	2	16	547	3,050	124	689	13,188	38,511	361	2,161
	26-Aug	3	3	0	0	25	133	1,402	8,106	20,617	69,472	10	63
	27-Aug	7	7	0	0	68	297	2,824	21,070	43,646	146,647	39	220
	28-Aug	11	11	0	0	117	521	4,137	31,267	74,437	222,048	68	371
	29-Aug	19	20	0	0	65	265	3,347	23,488	39,824	127,167	45	331
	30-Aug	13	13	0	0	29	137	3,009	18,535	25,569	83,598	57	313
	31-Aug [a]												
	1-Sep	4	4	0	0	3	17	747	5,575	4,797	15,831	6	42
	2-Sep [a]												
	3-Sep [a]												
	4-Sep	5	5	0	0	18	65	2,545	15,130	12,815	44,654	9	40
	5-Sep [a]												
	6-Sep [a]												
	7-Sep	3	3	0	0	5	20	516	3,588	2,057	6,423	1	4
	9-Sep [a]												
	14-Sep [a]												
Total		90	400	1,510	9,175	166,714	931,598	31,810	211,438	351,951	1,105,410	158,933	1,048,010
Average weight					6.07		5.59		6.65		3.14		6.59

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Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner & Outer Kitoi													
252-32	11-Jun [a]												
	14-Jun [a]												
	16-Jun	5	5	7	50	583	2,844	0	0	2	5	833	5,829
	18-Jun [a]												
	21-Jun [a]												
	22-Jun [a]												
	23-Jun [a]	3	3	4	30	480	2,373	1	4	9	24	1,950	12,244
	24-Jun	5	6	4	52	351	1,968	0	0	15	54	2,083	13,326
	25-Jun	7	7	4	10	694	3,948	0	0	9	29	5,979	38,120
	26-Jun	7	7	14	71	515	2,767	11	51	177	427	2,188	14,680
	27-Jun	7	7	2	7	1,021	5,257	2	11	57	162	5,351	35,244
	28-Jun	5	5	0	0	432	2,477	0	0	15	46	4,181	26,917
	29-Jun	3	4	0	0	228	1,139	1	6	16	42	811	5,131
	30-Jun	3	3	0	0	298	1,273	1	3	36	74	2,480	11,873
	2-Aug [a]												
	4-Aug [a]												
	5-Aug [a]												
	6-Aug [a]												
	7-Aug [a]												
	8-Aug [a]												
	9-Aug [a]												
	10-Aug [a]												
	11-Aug [a]												
	12-Aug [a]												
	13-Aug [a]												
	14-Aug [a]												
	15-Aug [a]												
	16-Aug [a]												
	17-Aug [a]												
	18-Aug [a]												
	19-Aug [a]												
	20-Aug [a]												

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Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Inner & Outer Kitoi													
252-32 (cont.)	21-Aug [a]												
	22-Aug [a]												
	23-Aug [a]												
	24-Aug [a]												
	25-Aug [a]												
	26-Aug [a]												
	27-Aug [a]												
	8-Sep	6	6	0	0	124	680	1,700	12,794	3,114	9,798	2	11
	9-Sep [a]												
	10-Sep	5	5	0	0	36	143	2,167	17,194	2,058	6,581	1	3
	12-Sep	3	3	0	0	1	3	453	3,768	188	547	0	0
	13-Sep [a]												
	14-Sep	3	3	0	0	1	4	716	5,271	338	1,064	0	0
	16-Sep [a]												
Total		30	110	39	281	18,082	91,665	13,688	96,586	1,649,057	5,111,117	59,402	361,911
Average weight					7.21		5.07		7.06		3.10		6.09
Management Units Targeting Kitoi Hatchery													
(Inner & Outer Kitoi, Izhut and Duck Bay Sections)													
Subtotal		114	753	1,673	10,327	238,532	1,344,135	68,575	470,518	2,171,253	6,770,911	320,532	2,075,493
Avg.Wt.					6.17		5.64		6.86		3.12		6.48
East Afognak Management Units													
Grand Total		117	793	1,676	10,346	252,492	1,418,423	69,122	473,840	2,179,948	6,800,259	320,928	2,078,044
Average weight					8.93		5.08		7.87		3.70		6.93

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

[a] Confidential.

APPENDIX H. SPIRIDON BAY SPECIAL HARVEST AREA FISHERY SUMMARY

Appendix H1.–Narrative account of the Spiridon Bay Special Harvest Area sockeye salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

Adult sockeye salmon return each year to Telrod Cove in Spiridon Bay as a result of a juvenile stocking program of Spiridon Lake 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 176,000 Spiridon Lake sockeye salmon was expected in 2011 (Eggers and Carroll 2011). Sockeye salmon stocked into Spiridon Lake were from Saltery Lake stocks. 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. This run timing should follow the Saltery Lake sockeye salmon stock.

2011 Spiridon Bay sockeye salmon fishery

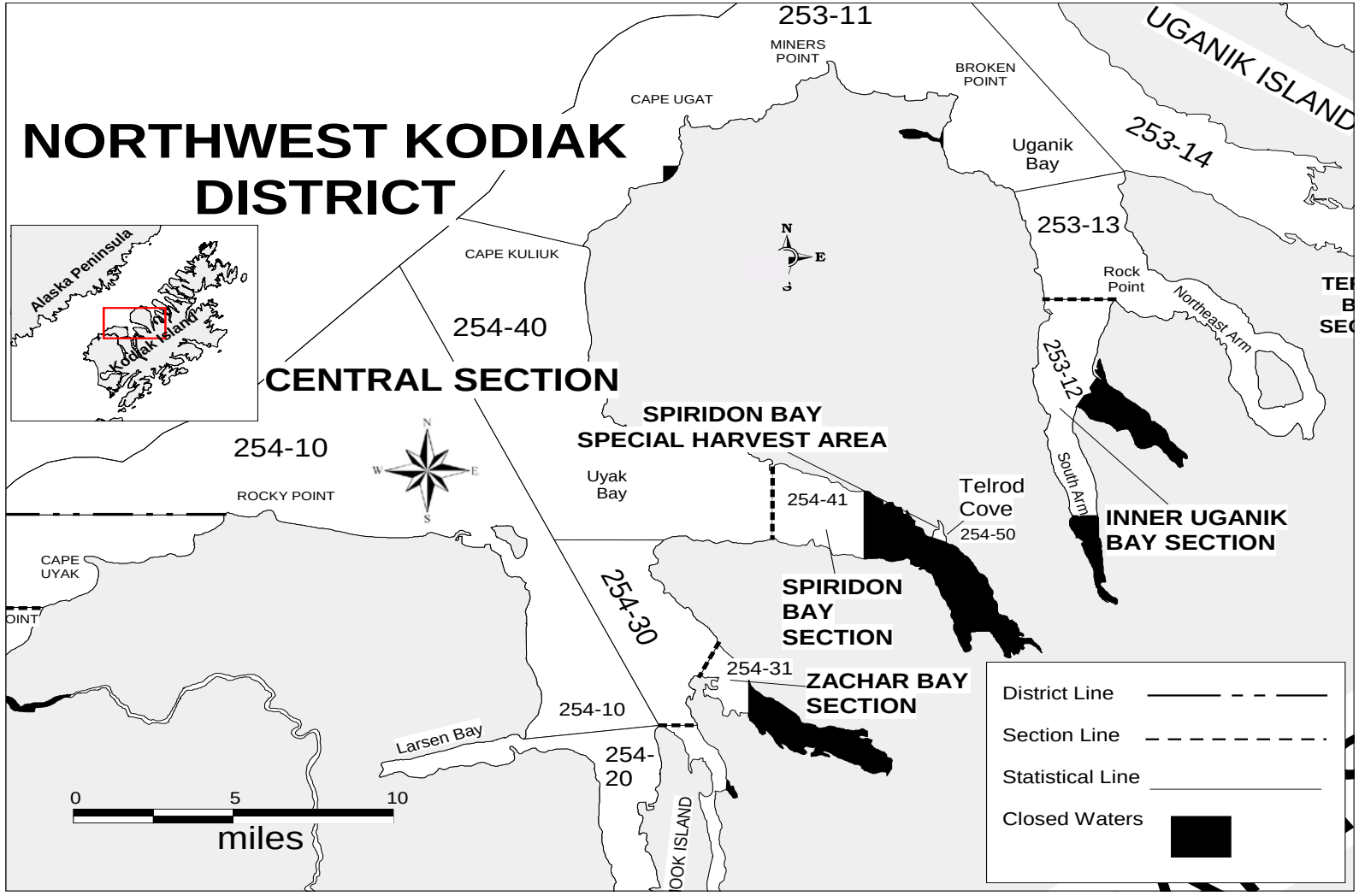
For the second year, KRAA conducted a cost recovery harvest to defray costs of this project. The cost recovery harvest began on June 21 and continued until June 30, and harvested 20,241 sockeye, and 5 chum salmon. With the conclusion of the cost recovery harvest, the common property fishery was opened on July 2 and remained open through August 15 after the sockeye salmon run had subsided. Twenty-six seiners harvested 2 Chinook; 91,218 sockeye; 8 coho; 12,178 pink; and 1,633 chum salmon in the common property fishery in the SBSHA (Appendix H3). The total number of sockeye salmon harvested in Telrod Cove was 111,459 fish, 18% (20,241 fish) of which was harvested for cost recovery (Appendix H4).

In 2011, salmon purse seine and set gillnet permit holders were allowed to fish a relatively liberal fishing schedule in July along the west side of Kodiak Island in anticipation of a strong pink salmon run. In early August the fishing schedule was reduced when it became apparent that the Westside pink salmon run was weaker than forecast. As a result of the long fishing periods in July, the percentage of Spiridon-bound sockeye salmon harvested in those fisheries was higher than the previous year, when the pink salmon run was forecasted to be weak and fishing time was relatively restrictive. The total number of sockeye salmon returning to the Spiridon enhancement project that were sold in 2011 was estimated at 167,248 fish, with approximately 67% (111,459 fish) harvested within the SBSHA and an estimated 33% (55,789 fish) harvested in the Southwest Afognak Section and Central and North Cape sections of the Northwest Kodiak District (Appendix H4). This estimate was based on analyses of commercial catch samples collected inseason from the Westside Kodiak fisheries in 2011 (Moore 2012), using the same analytical protocols used in 2008 through 2010.

REFERENCES CITED

Eggers, D. M., and A. M. Carroll. 2011. Run forecasts and harvest projections for the 2011 Alaska salmon fisheries and review of the 2010 season. Alaska Department of Fish and Game, Special Publication No. 11-03, Anchorage.

Moore, M. L. 2012. Kodiak Management Area salmon escapement and catch sampling results, 2011. Alaska Department of Fish and Game, Fishery Data Series No. 12-30, 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, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Spiridon Bay SHA													
	2-Jul	14	16	0	0	14,324	82,174	0	0	12	43	1	10
	3-Jul	16	16	0	0	5,088	29,654	0	0	61	176	6	54
	4-Jul	14	14	0	0	5,444	30,658	0	0	96	267	6	57
	5-Jul	9	9	1	30	2,889	16,432	0	0	55	136	2	22
	6-Jul	15	15	0	0	6,858	39,642	0	0	418	1,167	26	198
	7-Jul	10	10	1	6	2,233	12,352	0	0	226	688	33	241
	8-Jul	10	10	0	0	4,827	23,889	1	8	355	947	26	254
	9-Jul	7	7	0	0	1,687	8,718	0	0	198	515	32	283
	10-Jul	8	8	0	0	2,457	12,450	0	0	169	466	50	435
	11-Jul	8	9	0	0	2,310	12,628	1	5	99	307	46	427
	12-Jul	11	11	0	0	6,755	35,668	0	0	215	540	42	380
	13-Jul	13	15	0	0	11,012	56,965	0	0	636	1,813	246	2,469
	14-Jul	8	8	0	0	3,604	19,695	0	0	372	1,253	173	1,553
	15-Jul	10	10	0	0	3,118	17,028	0	0	1,018	2,288	264	2,346
	16-Jul [a]												
	17-Jul	10	10	0	0	1,974	11,825	0	0	710	2,107	114	895
	18-Jul	7	7	0	0	726	3,981	4	23	421	1,231	66	539
	19-Jul	7	7	0	0	1,888	10,074	0	0	544	1,608	42	387
	20-Jul	3	3	0	0	595	3,139	0	0	107	329	5	41
	21-Jul	7	7	0	0	1,408	7,227	0	0	646	1,983	64	596
	22-Jul [a]												
	23-Jul [a]												
	24-Jul [a]												
	26-Jul	6	6	0	0	1,857	10,051	0	0	728	2,235	70	517
	27-Jul	4	4	0	0	1,226	7,413	0	0	340	1,252	22	151
	29-Jul	3	3	0	0	1,383	7,613	0	0	195	588	0	0
	30-Jul [a]												525
	31-Jul	3	3	0	0	1,173	6,351	0	0	344	1,061	111	754
	5-Aug [a]												
	8-Aug [a]												
	11-Aug [a]												
	13-Aug	3	3	0	0	692	3,710	0	0	818	2,596	2	13
	15-Aug	4	4	0	0	510	2,695	1	6	994	3,151	9	55
Total		26	229	2	36	91,218	498,202	8	50	12,178	36,579	1,633	14,000
Average weight					18.00		5.46		6.25		3.00		8.57

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

[a] Confidential

Appendix H4.–Estimated contribution to the commercial harvest from the Spiridon Lake sockeye salmon enhancement project, by locality, in the Kodiak Management Area, 2011.

	Actual	Estimated	
	Telrod Cove	Southwest Afognak Section and NW Kodiak District	Westside Total
Cost recovery	20,241	0	20,241
Common property	91,218	55,789	147,007
Total harvest	111,459	55,789	167,248
Percent	67%	33%	100%

APPENDIX I. EASTSIDE KODIAK FISHERY SUMMARY

Appendix I1.–Narrative account of the Eastside Kodiak salmon fishery in the Kodiak Management Area, 2011.

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 general pink salmon fishery begins for most of the Kodiak Management Area (Dinnocenzo and Jackson 2011). Fishing opportunities through August 24 are based on the abundance of local and mixed pink and chum salmon, except that in the Buskin River Section from July 6 to 15 fishing could be allowed 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 2011 (Appendix I3), not more than two 33-hour fishing periods could occur from June 14 to 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 from June 14 to 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 through August 24, fishing opportunities in all sections are based on the abundance of local and mixed pink and chum salmon, except that in Inner Ugak Bay Section, Saltery sockeye salmon 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 (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 which is targeted by a large number of subsistence fishermen. 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 (KRAA) and the ADF&G to enumerate sockeye salmon. Other minor sockeye salmon systems are present in the Eastside Kodiak District, including Pasagshak Lake, Lake Miam, and Ocean Beach.

2011 Eastside Kodiak Fisheries

The Saltery River sockeye salmon run was moderately strong with cumulative escapement past Saltery weir of 30,768 fish (Table 4; Tiernan 2011), within the desired escapement goal range of 15,000 to 35,000 fish (Dinnocenzo and Jackson 2011). The Inner Ugak Bay Section was first opened on June 14, then reopened on June 21 for two 33-hour periods in June. Afterward, the section remained closed until July 6, when it opened for 105 hours with reduced closed waters coinciding with the first pink salmon opening in most of the archipelago. The next period occurred on July 13 and was extended on July 16 eventually through July 24 when the section was closed to help conserve local pink and chum salmon. The Inner Ugak Bay Section was reopened July 28 for 105 hours and August 3 for 81 hours. By August 6 it was apparent that the local pink run was either weak or late and the sockeye run was over. The section was kept

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closed until August 20 to conserve a large portion of a relatively weak run needed for escapement. This section was closed on July 31 to conserve pink and chum salmon needed for escapement in Saltery River and adjacent streams.

For the first time a weir was established at the outlet of Pasagshak Lake to enumerate sockeye salmon. Since this was the first year this weir was in operation, the data was of little value in assessing in-season run strength. A total of 13,402 sockeye salmon were estimated to have passed the weir in 2011 (Table 4; Tiernan 2011), above the lower bound sustainable escapement goal of 3,000 fish (Table 3; Nemeth et al. 2010).

The Buskin River had the strongest sockeye salmon run it has had in four years. It was not necessary to close the subsistence fishery to conserve sockeye salmon needed for escapement. A total of 11,982 sockeye salmon escaped through Buskin River weir (Table 4; Tiernan 2011), above the escapement goal range of 5,000 to 8,000 fish (Table 3; Nemeth et al. 2010).

Generally, pink and chum salmon runs in the Eastside Kodiak fishery were strong, especially south of Old Harbor and in Chiniak Bay. As a result, the Eastside Kodiak management units (Northeast and Eastside Kodiak districts) were open most of August allowing a harvest of pink and chum salmon in excess of escapement needs in these areas. The total commercial harvest for the Eastside Kodiak management units by 165 permit holders included 6,449 Chinook; 379,881 sockeye; 44,884 coho; 8,275,432 pink; and 187,862 chum salmon (Appendix I4). The last landing from Eastside Kodiak management units occurred on September 8.

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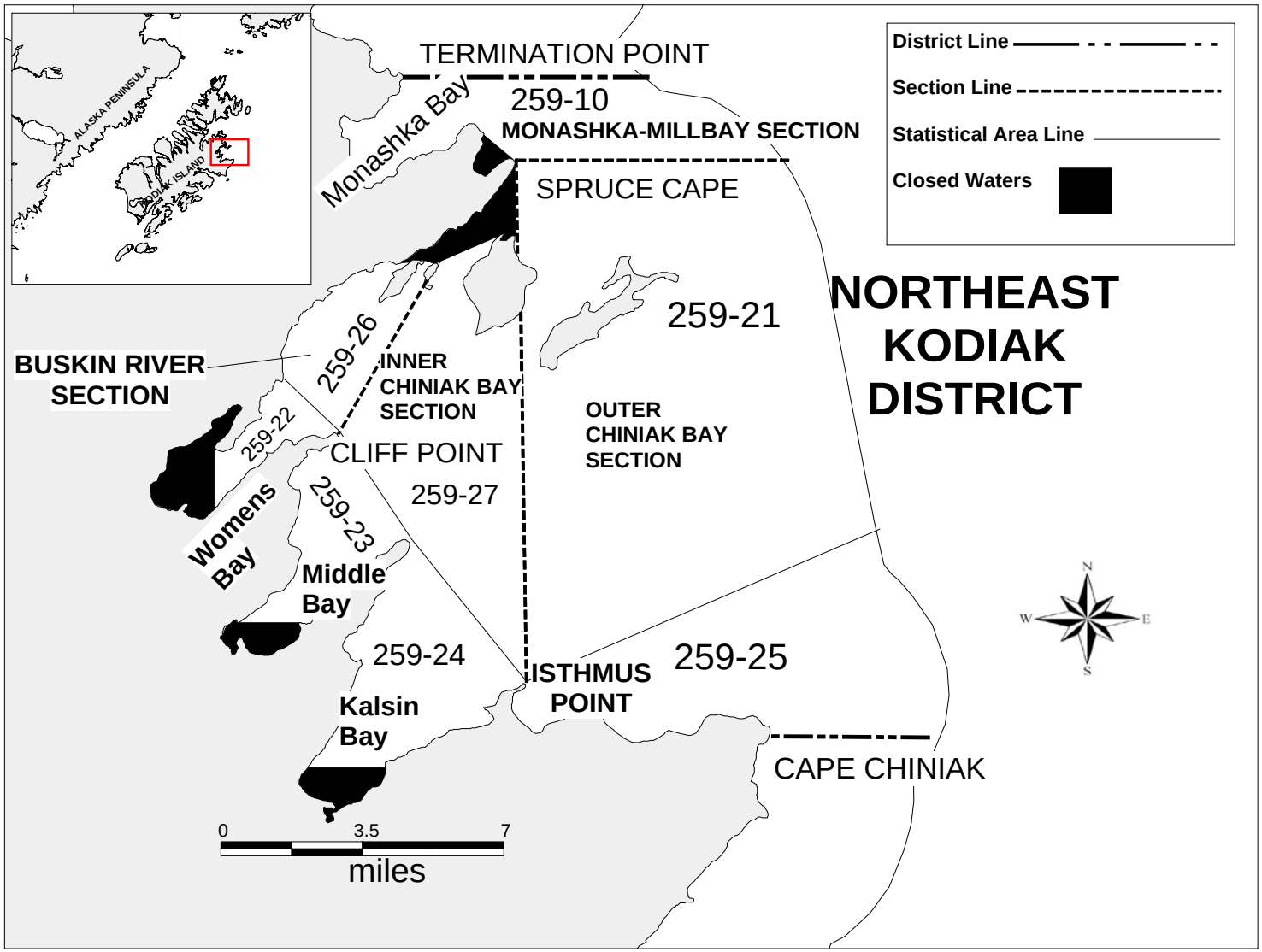
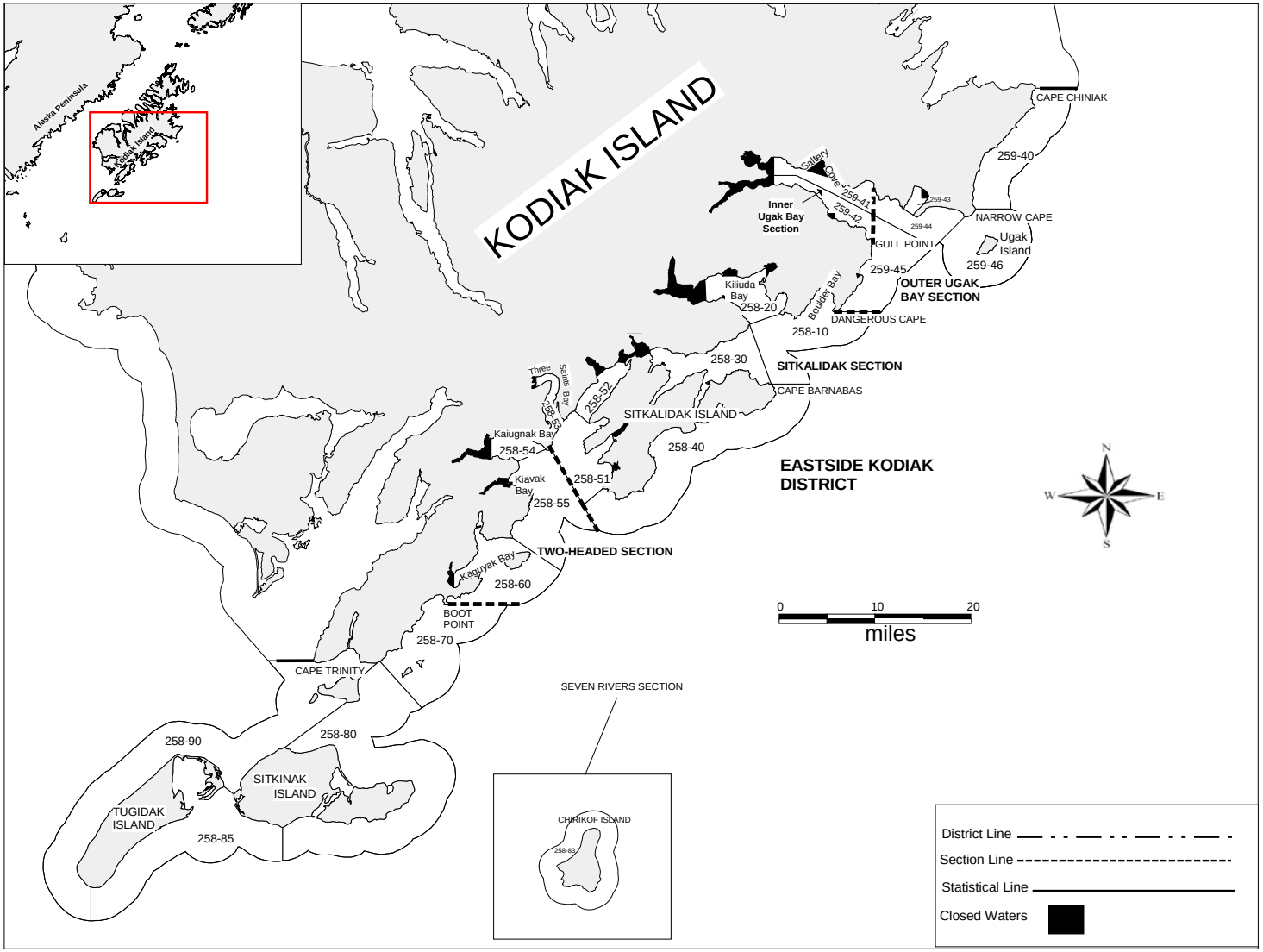
Tiernan, A. R. 2011. Kodiak Management Area Weir Descriptions and Salmon Escapement Report, 2011. Alaska Department of Fish and Game, Fisheries Management Report No. 11-78, Anchorage.



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, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Eastside Kodiak District													
	14-Jun	4	4	19	194	2,178	13,680	0	0	132	384	114	823
	15-Jun	3	3	2	21	646	3,837	0	0	20	60	20	139
	21-Jun	16	16	88	758	8,731	50,497	2	31	3,095	9,617	1,537	11,045
	22-Jun	4	4	32	250	2,827	14,281	5	21	1,066	3,200	929	6,315
	6-Jul	21	21	157	1,630	18,536	110,158	358	2,288	6,797	17,977	1,921	13,894
	7-Jul	9	9	6	77	4,208	25,987	81	544	987	3,198	567	3,454
	8-Jul	19	19	126	1,203	72,098	452,485	898	6,032	19,612	53,332	4,039	28,897
	9-Jul	22	24	301	2,971	83,879	562,796	1,973	12,455	19,693	51,684	4,256	28,731
	10-Jul	20	20	91	634	52,216	354,041	1,458	8,795	11,379	33,314	2,496	17,649
	13-Jul	19	20	181	1,442	14,603	95,459	1,069	6,428	9,252	25,949	1,414	9,798
	14-Jul	18	18	268	1,976	12,385	78,010	760	4,555	7,422	21,175	1,638	9,811
	15-Jul	14	14	273	2,010	18,974	113,459	2,038	12,567	18,644	48,733	2,976	20,789
	16-Jul	9	9	190	1,759	8,682	51,906	1,230	9,436	11,478	35,193	1,595	12,345
	17-Jul	20	21	409	2,699	16,134	90,109	2,081	12,538	22,121	61,431	4,183	27,847
	18-Jul	3	3	100	924	1,569	9,424	35	229	1,702	5,106	316	1,979
	20-Jul	26	26	476	4,133	10,868	62,652	2,855	17,232	67,193	211,729	9,307	59,371
	21-Jul	17	17	161	1,384	5,891	35,507	1,888	12,079	54,374	168,720	4,652	29,115
	22-Jul	21	21	338	2,100	8,447	47,463	2,625	17,388	73,185	220,978	3,953	27,267
	23-Jul	17	18	120	1,600	3,448	20,331	794	3,828	58,167	161,961	2,060	12,919
	24-Jul	24	25	197	2,152	2,854	16,565	949	5,547	55,788	185,434	2,481	16,436
	28-Jul	28	28	187	2,379	3,428	19,736	979	6,806	156,758	447,001	3,915	28,642
	29-Jul	27	28	234	2,858	2,817	16,422	1,578	10,815	153,443	471,797	3,477	25,138
	30-Jul	33	34	129	1,743	2,001	10,516	642	4,518	189,601	636,472	2,853	21,654
	31-Jul	33	33	235	2,555	1,854	10,186	826	5,166	181,099	564,034	4,089	28,741
	1-Aug	21	21	51	605	801	4,156	625	4,016	128,147	396,101	1,288	9,226
	2-Aug	22	22	50	670	1,087	6,850	877	6,234	142,233	458,277	1,123	8,238
	3-Aug	48	50	140	1,883	1,987	10,647	1,739	11,155	365,179	1,171,135	8,103	59,750
	4-Aug	34	34	64	966	600	3,394	649	4,457	274,994	862,708	3,967	28,280
	5-Aug	42	45	99	1,705	992	5,500	786	5,323	234,971	773,802	4,725	33,201
	6-Aug	46	47	187	2,421	817	4,446	595	3,760	297,472	973,684	4,919	32,916
	7-Aug	24	24	55	636	249	1,416	297	1,929	156,280	510,288	1,081	7,334
	8-Aug	26	27	41	397	163	853	191	1,368	113,257	369,439	691	5,023

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Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Eastside Kodiak District (cont.)	9-Aug	44	48	77	1,324	501	2,820	648	4,418	310,052	1,048,574	2,742	19,252
	10-Aug	47	53	144	1,649	635	3,564	649	4,631	360,626	1,141,370	3,281	23,148
	11-Aug	46	47	74	862	491	2,701	679	5,097	357,933	1,165,026	3,951	27,892
	12-Aug	70	77	154	2,026	976	5,531	1,430	9,801	535,009	1,784,639	7,707	53,515
	13-Aug	57	58	96	1,143	467	2,632	736	5,296	335,407	1,090,774	5,302	37,827
	14-Aug	54	55	71	1,110	492	2,711	595	3,515	313,799	1,045,849	6,825	47,251
	15-Aug	53	56	75	961	477	2,589	481	3,326	336,529	1,080,733	3,957	28,823
	16-Aug	40	41	55	700	590	3,482	474	3,313	299,429	968,396	4,019	28,349
	17-Aug	44	49	121	1,531	563	3,361	735	5,046	388,753	1,237,618	3,619	26,179
	18-Aug	50	52	71	994	463	2,548	745	5,178	265,442	879,117	4,118	28,664
	19-Aug	17	17	9	112	501	2,658	217	1,516	95,074	298,338	473	3,442
	20-Aug	48	49	40	569	617	3,481	803	6,004	261,082	845,589	7,217	53,643
	21-Aug	42	43	42	552	166	895	617	4,165	137,758	464,167	3,853	27,035
	22-Aug	40	41	33	398	200	1,095	734	5,190	163,461	532,087	4,203	30,436
	23-Aug	18	19	21	318	172	911	520	3,122	77,512	262,082	1,465	8,335
	24-Aug	8	8	39	414	34	162	118	757	41,170	136,262	335	2,265
	25-Aug [a]												
	26-Aug	7	7	6	51	262	1,120	801	5,393	61,934	202,324	844	4,952
	27-Aug [a]												
	28-Aug	4	4	0	0	36	160	472	2,450	16,961	55,739	404	2,507
	29-Aug	7	7	3	34	63	273	268	1,970	44,595	137,548	1,478	10,534
	30-Aug	15	15	111	826	39	216	610	3,853	79,857	266,663	3,120	19,625
	31-Aug	9	9	16	235	14	68	361	2,328	25,148	75,598	1,461	8,856
	6-Sep	3	3	3	39	3	14	82	614	3,464	13,611	375	2,733
	7-Sep	3	3	0	0	0	0	117	916	7,071	25,333	1,417	11,032
	8-Sep [a]												
Total		145	1,471	6,270	64,601	373,750	2,345,827	43,863	286,056	7,372,038	23,770,877	163,717	1,138,905
Average weight					10.30		6.28		6.52		3.22		6.96

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northeast Kodiak District													
	7-Jul [a]												
	8-Jul	3	3	39	257	3,711	20,388	135	822	4,342	13,025	1,561	10,850
	10-Jul [a]												
	13-Jul [a]												
	20-Jul [a]												
	21-Jul [a]												
	22-Jul [a]												
	23-Jul [a]												
	24-Jul [a]												
	28-Jul	3	3	5	76	130	653	32	192	9,666	33,888	166	1,457
	29-Jul	4	4	5	76	68	380	18	115	17,258	61,405	329	2,312
	30-Jul	11	11	7	79	86	443	20	129	40,851	153,788	225	1,792
	31-Jul	8	9	4	37	19	106	3	17	23,592	88,732	101	734
	3-Aug	12	12	8	124	4	23	2	14	55,338	201,135	871	5,711
	4-Aug	9	10	3	46	14	78	2	6	49,015	184,112	122	902
	5-Aug	26	28	23	306	235	1,188	157	977	85,713	351,286	1,137	7,783
	6-Aug	12	14	5	92	41	212	17	107	38,855	144,896	242	1,516
	7-Aug [a]												
	8-Aug [a]												
	9-Aug	25	26	0	0	27	152	33	206	113,704	375,024	2,168	16,003
	10-Aug	25	27	29	388	2	8	12	85	104,985	347,645	1,176	8,266
	11-Aug	23	26	5	72	24	134	15	75	74,884	258,036	2,151	15,009
	12-Aug	19	20	0	0	10	58	11	58	66,080	230,801	2,170	15,693
	13-Aug	13	14	0	0	5	19	27	159	28,280	104,535	1,772	11,980
	14-Aug	17	17	2	32	1	4	5	26	33,801	115,774	963	6,414
	15-Aug	10	10	0	0	4	21	8	55	22,166	77,842	849	5,625
	16-Aug	6	7	0	0	0	0	4	22	14,511	52,470	876	5,842
	17-Aug	13	13	0	0	3	18	54	344	26,829	98,561	778	5,475
	18-Aug	9	10	0	0	1	3	67	544	22,821	75,391	868	5,955
	19-Aug	7	7	0	0	0	0	7	47	5,832	23,671	564	4,088

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northeast Kodiak District (cont.)	20-Aug	8	9	0	0	9	50	19	117	14,540	53,379	478	3,282
	21-Aug	11	11	0	0	9	41	57	370	18,152	65,017	514	3,675
	22-Aug	7	7	4	50	3	12	16	109	4,955	16,741	290	2,016
	23-Aug	7	8	0	0	22	117	69	440	8,987	32,055	344	2,313
	24-Aug	4	4	0	0	0	0	17	130	3,283	11,331	263	1,893
	25-Aug	3	4	0	0	0	0	11	71	1,287	4,307	295	2,080
	27-Aug [a]												
Total		74	327	179	1,966	6,131	34,160	1,021	6,374	903,394	3,216,704	24,145	166,399
Average weight					10.98		5.57		6.24		3.56		6.89
Eastside Management Plan													
Total		165	1,793	6,449	66,567	379,881	2,379,987	44,884	292,430	8,275,432	26,987,581	187,862	1,305,304
Avg. wt.					10.32		6.27		6.52		3.26		6.95

[a] Confidential.

APPENDIX J. NORTH AFOGNAK/SHUYAK FISHERY SUMMARY

Appendix J1.–Narrative account of the North Afognak/Shuyak salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

In November of 1995, the BOF 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. Though 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 beginning in the early 1970s, with the harvest strategy remaining basically 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 was first in effect during the 1996 season and was most recently modified in January of 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 through September 5; and on 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 to 25 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 Pauls and Portage lakes sockeye salmon. 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, though 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 again only in the FBSHA. From July 6 to 25

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the Northwest Afognak Section was also managed in accordance with the North Shelikof Strait Sockeye Salmon Management Plan (5 AAC 18.363).

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.

2011 North Afognak/Shuyak Island Fisheries

In 2011, 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 the WBSHA. The 2011 sockeye salmon harvest in FBSHA was the largest since 2003. There were six permit holders that harvested 2 Chinook; 44,142 sockeye; 104 pink; and 3 chum salmon. (Appendix J3). The WBSHA also had a strong return of sockeye salmon and six permit holders harvested 7 Chinook; 37,063 sockeye; and 43 chum salmon (Appendix J3).

The Pauls Bay Section opened on June 14 and 21 for two 33-hour periods in order to test the strength of the sockeye salmon run. (Appendix J3). Due to budget constraints, the Pauls Bay weir was not operated in 2011. Aerial and foot surveys were used to determine sockeye salmon escapement. The Pauls Bay Section opened along with most other areas in the KMA to allow the harvest of pink salmon on July 6, July 13, and July 20 for 105-hours and on July 28 for 81 hours. Despite the large pink salmon expected in the KMA, the local pink salmon run was weak and no effort occurred in July. Coho salmon returns were mediocre and fishing time in August occurred on August 3, August 16, August 29, and September 3 for 57 hours each fishing period. By this time it was apparent that local coho salmon stocks were very weak, and no other fishing periods were allowed. Effort was extremely low in the Pauls Bay Section when compared to previous years with 7 permit holders harvesting 4 Chinook; 9,251 sockeye; 28 coho; 213 pink; and 23 chum salmon (Appendix J3).

The Department of Natural Resources, local Division of Parks staff, and volunteers operated a fish counting weir on Big Bay Creek on the west side of Shuyak Island from July 24 through August 31, 2011 to enumerate coho salmon. The data from this weir was used inseason as an index of local coho salmon run strength in the Shuyak Island Section. An estimated 899 coho salmon passed through the weir (Table 4; Tiernan 2011). Fishing time in the Shuyak Island Section in August coincided with the Pauls Bay Section but there was no harvest effort in 2011 (Appendix J3).

The last landing in the North Afognak/Shuyak Island management units occurred on August 17. In all the units of the North Afognak/Shuyak fishery combined, 39 permit holders harvested 235 Chinook; 103,249 sockeye; 2,466 coho; 73,606 pink; and 21,206 chum salmon in 108 landings during 2011 (Appendix J3).

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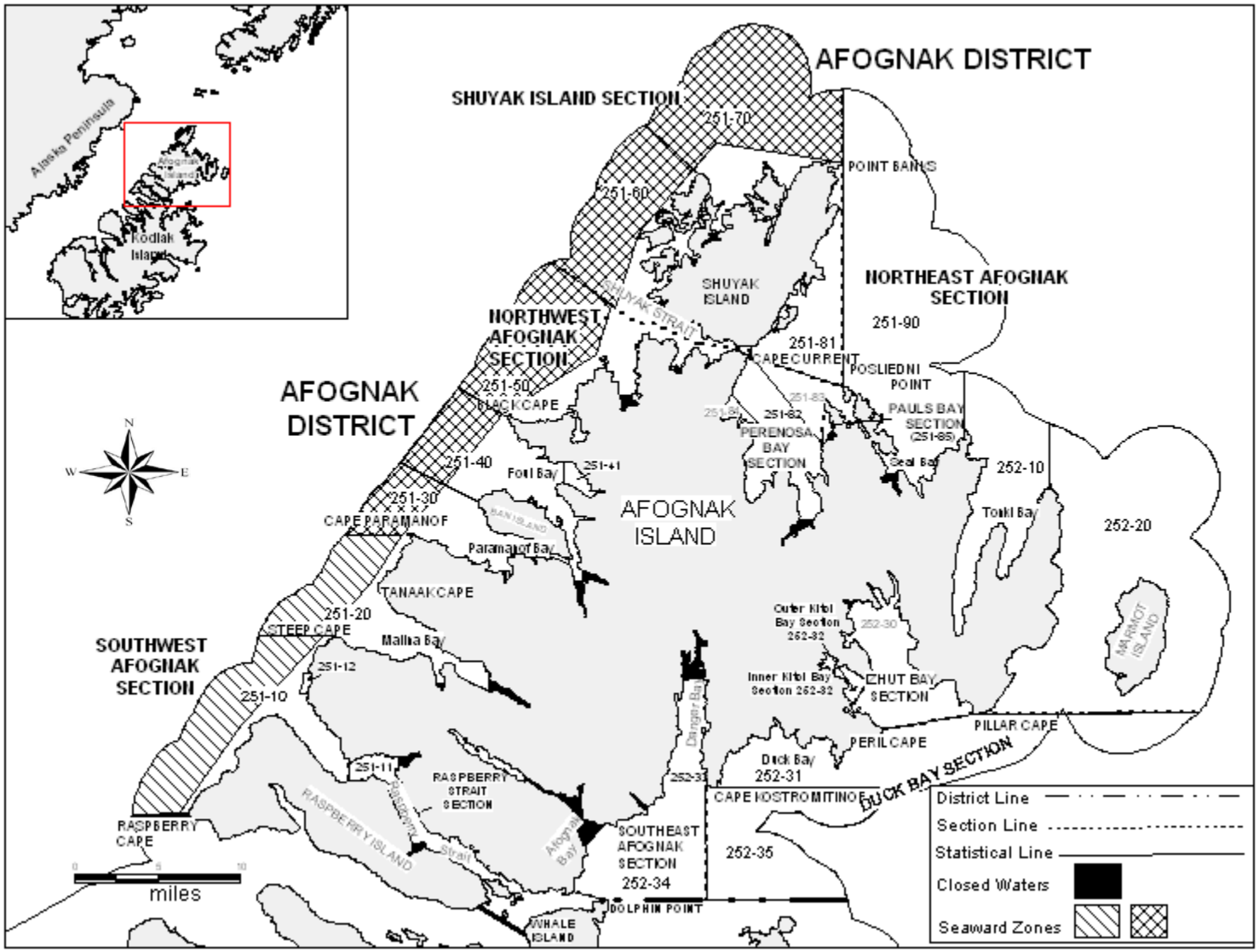
Tiernan, A. R. 2011. Kodiak Management Area Weir Descriptions and Salmon Escapement Report, 2011. Alaska Department of Fish and Game, Fisheries Management Report No. 11-78, Anchorage.



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, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Northeast Afognak Section													
	6-Jul [a]												
	7-Jul [a]												
	8-Jul [a]												
	9-Jul [a]												
	13-Jul [a]												
	15-Jul [a]												
	17-Jul	3	4	51	269	1,506	6,902	306	1,605	27,720	82,636	4,639	29,763
	20-Jul	3	3	0	0	144	724	276	1,898	3,951	11,902	1,536	10,518
	21-Jul	3	3	1	11	131	737	162	555	2,153	5,684	1,392	7,717
	22-Jul [a]												
	23-Jul [a]												
	24-Jul [a]												
	28-Jul [a]												
	29-Jul [a]												
	30-Jul [a]												
	3-Aug [a]												
	4-Aug [a]												
Total		17	29	203	977	3,783	19,259	2,087	11,806	58,091	177,294	18,664	122,859
Avg. Weight					4.81		5.09		5.66		3.05		6.58
Section													
(excluding Foul Bay	14-Jun	3	3	1	13	4,082	19,439	0	0	0	0	14	100
SHA)	15-Jun	3	3	2	8	1,205	6,933	0	0	7	20	40	299
	21-Jun [a]												
	9-Jul [a]												
	13-Jul [a]												
	17-Jul [a]												
	20-Jul [a]												
	22-Jul [a]												
	28-Jul [a]												
	30-Jul [a]												
	13-Aug [a]												
Total		12	16	19	232	8,941	44,801	142	871	12,034	41,646	2,406	16,159
Avg. Weight					12.21		5.01		6.13		3.46		6.72

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Foul Bay Special Harvest Area													
	9-Jun [a]												
	10-Jun [a]												
	11-Jun [a]												
	13-Jun [a]												
	14-Jun	3	3	1	7	1,124	5,200	0	0	0	0	0	0
	16-Jun	3	3	0	0	4,911	22,589	0	0	0	0	0	0
	17-Jun [a]												
	18-Jun [a]												
	19-Jun [a]												
	20-Jun [a]												
	21-Jun [a]												
	22-Jun [a]												
	23-Jun [a]												
	24-Jun [a]												
	25-Jun [a]												
	26-Jun [a]												
	29-Jun [a]												
	3-Jul [a]												
	9-Jul [a]												
	10-Jul [a]												
	17-Jul [a]												
Total		6	32	2	22	44,142	212,704	0	0	104	301	3	18
Avg. Weight					11.00		4.82				2.89		6.00
Pauls Bay Section													
	14-Jun	4	4	2	19	8,290	37,791	0	0	8	22	14	106
	15-Jun [a]												
	21-Jun	3	3	0	0	566	2,897	0	0	0	0	1	6
	22-Jun [a]												
	17-Aug [a]												
Total		7	11	4	40	9,251	42,570	28	210	213	740	23	169
Avg. Weight					10.00		4.60		7.50		3.47		7.35

-continued-

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Perenosa Bay Section (Excluding Waterfall Bay SHA)	20-Jul [a]												
	16-Aug [a]												
	17-Aug [a]												
Total		4	4	0	0	69	457	209	1,398	3,164	10,090	67	510
Avg. Weight							6.62		6.69		3.19		7.61
Harvest Area													
Harvest Area	9-Jun	3	3	2	23	14,136	71,304	0	0	0	0	0	0
	10-Jun [a]												
	11-Jun [a]												
	12-Jun [a]												
	14-Jun [a]												
	16-Jun [a]												
	17-Jun [a]												
	18-Jun [a]												
	19-Jun [a]												
	20-Jun [a]												
	21-Jun [a]												
	22-Jun [a]												
	23-Jun [a]												
	24-Jun	3	3	3	32	1,322	6,404	0	0	0	0	0	0
	26-Jun [a]												
	28-Jun [a]												
	1-Jul [a]												
Total		6	24	7	72	37,063	171,703	0	0	0	0	43	253
Avg. Weight					10.29		4.63						5.88

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Shuyak Island Section													
Total		0	0	0	0	0	0	0	0	0	0	0	0
Avg. Weight													
Mangement Plan Units													
Total		39	108	235	1,343	103,249	491,494	2,466	14,285	73,606	230,071	21,206	139,968
Avg. Weight					5.71		4.76		5.79		3.13		6.60

[a] Confidential.

APPENDIX K. MAINLAND DISTRICT FISHERY SUMMARY

Appendix K1.–Narrative account of the Mainland District salmon fishery in the Kodiak Management Area, 2011.

INTRODUCTION

The Mainland District in the Kodiak Management Area (KMA; Appendix K2) is covered under three separate regulatory management plans, two 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 to July 25 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 northernmost sections of the Mainland District and, from July 6 to 25, 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).

The MDSMP provides that commercial salmon fisheries in the majority of the Mainland District remains 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 25) and two very limited (33-hour) fisheries in June targeting local sockeye salmon runs (Swikshak River sockeye salmon in the Big River Section, and Kaflia Lake sockeye salmon in the Outer Kukak Section; Appendix K2). From July 6 through 25, weekly fishing periods could not exceed 57 hours and fishing opportunities were to be based on the abundance of local and mixed stocks of pink and chum salmon, except in the Wide Bay Section, which remains closed. From July 25 to the end of the season, fishing periods are based on the abundance of local pink, chum and coho salmon.

2011 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 Kaflia and Swikshak systems sockeye salmon. During the pink salmon season through July 25, the entire Mainland District (with the exception of the Wide Bay and Cape Igvak sections, which stayed closed) was opened for three 57-hour fishing periods between July 6 and July 22 (with some sections under the NSSSSMP).

Pink and chum salmon runs were weak in the Mainland District and due to the continued necessity to conserve pink and chum salmon for escapement there was relatively little fishing time allowed. Four more openings were established during the pink salmon run: an 81-hour opening on July 28, and three 57-hour openings on August 3, August 9, and August 16. The estimated pink salmon escapement of 273,500 fish (Table 3) was just within the escapement goal range of 250,000 to 750,000 fish (Nemeth et al. 2010).

Additional fishing time was not allowed again in the Mainland District until September 3, and then only in the Alinchak, Cape Igvak, and Wide Bay sections, to allow the remaining fleet to test the strength of the coho salmon run. There was no effort or harvest during this opening (Appendix K3).

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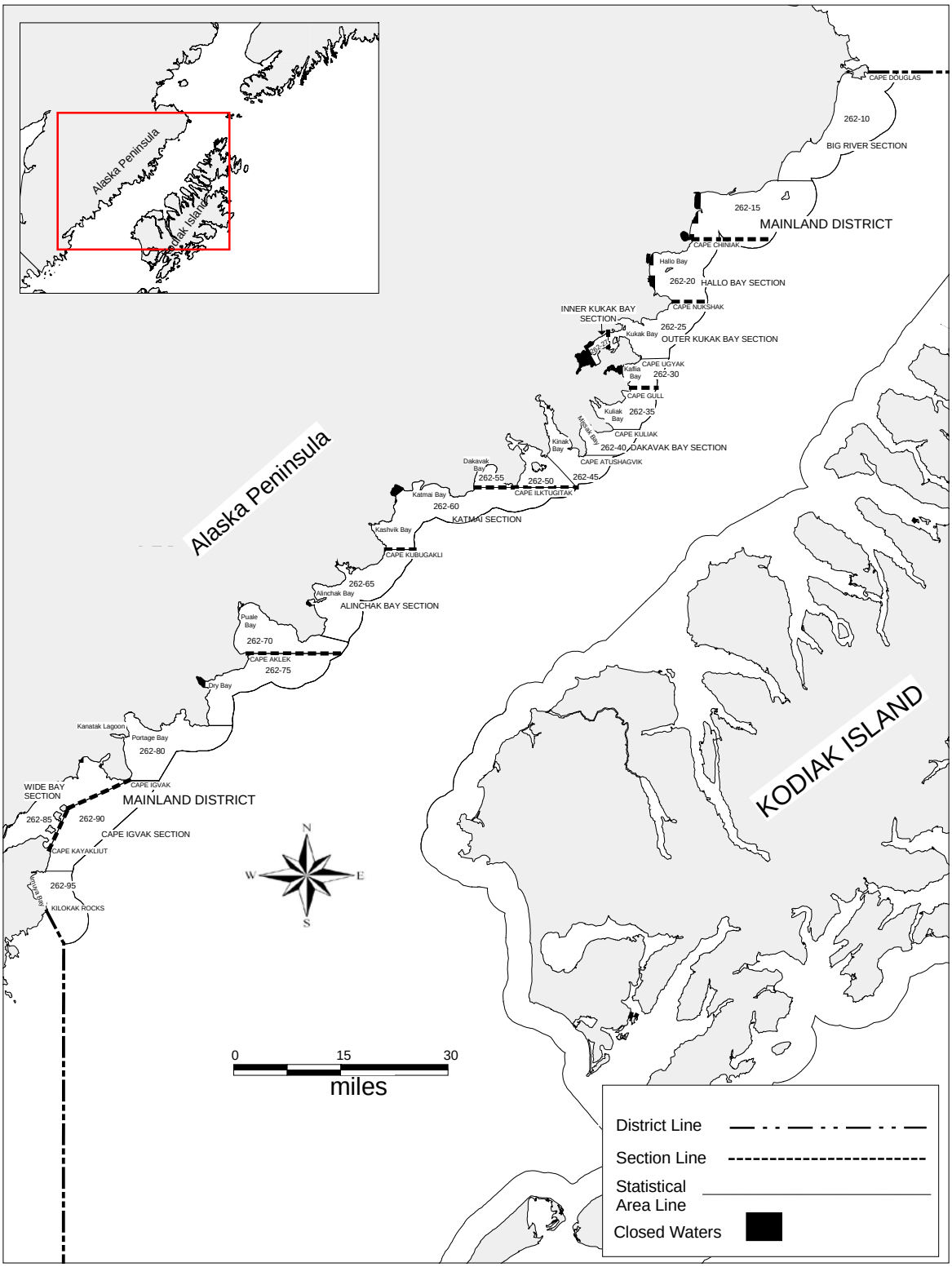
During 2011, the total commercial harvest by 90 permit holders in the Mainland District included 2,783 Chinook; 589,449 sockeye; 6,930 coho; 249,245 pink; and 112,168 chum salmon (Appendix K3). This includes all salmon harvested along the Mainland, including those harvested under the direction of the CISMP and the NSSSSMP.

REFERENCES CITED

Nemeth, M. J., M. J. Witteveen, M. B. Foster, H. Finkle, J. W. Erickson, J. S. Schmidt, S. J. Fleischman, and D. Tracy. 2010. Review of escapement goals in 2010 for salmon stocks in the Kodiak Management Area, Alaska. Alaska Department of Fish and Game, Fishery Manuscript No. 10-09, 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, 2011.

Management				Chinook		Sockeye		Coho		Pink		Chum	
Unit	Date	Permits	Landings	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Big River Section													
	20-Jul [a]												
Total	[a]												
Hallo Bay Section													
Total		0	0	0	0	0	0	0	0	0	0	0	0
Outer Kukak Bay Section													
	20-Jul [a]												
	22-Jul [a]												
	28-Jul [a]												
	9-Aug [a]												
	10-Aug [a]												
	11-Aug [a]												
Total		6	6	7	37	193	1,081	88	551	749	2,276	6,070	40,598
Avg. Weight					5.29		5.60		6.26		3.04		6.69
Inner Kukak Bay Section													
Total		0	0	0	0	0	0	0	0	0	0	0	0

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Appendix K3.–Page 2 of 4.

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Dakavak Bay Section													
	13-Jul	3	3	98	486	1,302	8,390	165	1,237	1,373	4,113	590	4,425
	14-Jul [a]												
	15-Jul	3	3	104	656	4,009	25,538	89	442	1,040	2,977	655	4,778
	20-Jul	12	12	123	796	10,808	69,875	1,081	7,090	5,370	15,074	2,639	19,815
	21-Jul	5	5	6	90	3,066	20,182	185	1,139	1,396	4,135	491	3,481
	22-Jul	12	12	54	470	4,752	28,660	626	3,998	4,724	21,707	3,065	18,806
	28-Jul [a]												
	29-Jul [a]												
	30-Jul [a]												
	31-Jul [a]												
	4-Aug [a]												
	9-Aug [a]												
	10-Aug [a]												
	11-Aug [a]												
	17-Aug [a]												
Total		25	49	466	3,247	30,552	191,907	4,136	23,530	27,687	91,780	14,673	99,803
Avg. Weight					6.97		6.28		5.69		3.31		6.80
Katmai Section													
	20-Jul [a]												
	21-Jul [a]												
	31-Jul [a]												
Total		3	4	7	104	4,122	26,679	553	2,973	2,110	6,211	1,379	8,145
Avg. Weight		Avg. Wt.			14.86		6.47		5.38		2.94		5.91

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Appendix K3.–Page 3 of 4.

Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Alinchak Bay Section													
	6-Jul [a]												
	7-Jul [a]	3	3	12	156	1,883	12,182	83	586	1,404	4,342	960	6,677
	29-Jul [a]												
	30-Jul [a]												
	31-Jul [a]												
	3-Aug [a]												
	4-Aug [a]												
	5-Aug [a]												
	9-Aug [a]												
	10-Aug [a]												
	11-Aug [a]												
	16-Aug [a]												
	17-Aug [a]												
Total		6	21	70	691	1,901	12,306	94	657	166,490	573,934	15,116	106,888
Avg. Weight					9.87		6.47		6.99		3.45		7.07
Cape Igvak Section													
	9-Jun	33	33	145	1,627	29,269	191,504	0	0	25	83	3,918	27,605
	10-Jun	26	27	87	961	50,334	306,799	0	0	22	69	4,182	25,053
	11-Jun	18	20	40	520	42,383	277,679	0	0	38	116	1,919	14,087
	12-Jun	28	28	66	687	45,061	295,017	0	0	99	302	2,346	16,147
	13-Jun	32	34	100	1,166	37,830	259,328	0	0	123	355	1,511	11,034
	16-Jun	37	37	138	1,633	87,530	560,974	0	0	894	2,654	5,464	36,943
	17-Jun	40	41	101	1,052	66,824	434,194	0	0	649	1,943	6,330	44,954

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Management Unit	Date	Permits	Landings	Chinook		Sockeye		Coho		Pink		Chum	
				Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds	Number	Pounds
Cape Igvak Section													
(cont.)	22-Jun	65	67	776	6,587	91,458	614,564	1	5	5,035	15,555	16,599	113,690
	23-Jun	36	36	172	1,526	24,503	162,387	6	46	1,795	5,358	5,582	40,261
	24-Jun	59	60	357	2,935	46,008	297,752	9	44	4,949	14,725	12,752	85,078
	25-Jun	49	49	185	1,711	28,287	183,098	3	25	2,465	7,784	5,564	40,180
	28-Jul	4	4	32	259	1,191	6,083	431	3,148	6,538	25,807	4,457	32,335
	29-Jul [a]												
	30-Jul [a]												
	31-Jul [a]												
	16-Aug [a]												
	17-Aug [a]												
Total		82	443	2,233	21,046	552,540	3,599,795	2,022	15,279	46,156	152,725	74,684	515,671
Avg. Weight					9.42		6.51		7.56		3.31		6.90
Wide Bay Section													
	28-Jul [a]												
	18-Aug [a]												
Total	[a]												
Mainland District Total													
Total		90	525	2,783	25,125	589,449	3,832,626	6,930	43,245	249,245	848,560	112,168	772,824
Avg. Weight					9.03		6.50		6.24		3.40		6.89

[a] 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, 2011.

Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Stat Area)	Week	ends	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.
S.W. Afognak	25	20-Jun	5	61	12.2	234	1,385	5.9	0	0	0.0	0	0	0.0	6	44	7.3
& Raspberry Straits	28	11-Jul	3	19	6.3	1,302	8,141	6.3	22	177	8.0	433	1,174	2.7	745	3,464	4.6
(combined)	29	18-Jul	142	1,226	8.6	8,934	43,705	4.9	784	3,337	4.3	12,906	37,541	2.9	3,056	19,979	6.5
(251-10, 11, 12, 20)	30	25-Jul	137	1,272	9.3	4,436	24,691	5.6	1,301	7,460	5.7	10,016	33,166	3.3	4,456	30,836	6.9
	31	1-Aug	120	1,058	8.8	1,935	10,216	5.3	605	3,709	6.1	13,881	45,397	3.3	1,766	10,943	6.2
	34	22-Aug	12	128	10.7	113	623	5.5	378	2,827	7.5	5,533	18,353	3.3	183	1,257	6.9
	35	29-Aug	18	159	8.8	60	341	5.7	275	2,094	7.6	5,508	18,001	3.3	85	602	7.1
	Total		437	3,923	9.0	17,014	89,102	5.2	3,365	19,604	5.8	48,277	153,632	3.2	10,297	67,125	6.5
N.W.Afognak	24	13-Jun	0	0	0.0	24,656	118,758	4.8	0	0	0.0	0	0	0.0	0	0	0.0
(251-30, 40, 41, 50)	25	20-Jun	5	43	8.6	16,516	78,832	4.8	0	0	0.0	7	20	2.9	54	399	7.4
	26	27-Jun	0	0	0.0	3,866	19,460	5.0	0	0	0.0	0	0	0.0	1	6	6.0
	27	4-Jul	0	0	0.0	2,917	14,602	5.0	0	0	0.0	4	14	3.5	0	0	0.0
	28	11-Jul	0	0	0.0	2,098	10,863	5.2	0	0	0.0	18	39	2.2	2	12	6.0
	29	18-Jul	0	0	0.0	1,008	4,622	4.6	0	0	0.0	430	1,288	3.0	55	331	6.0
	30	25-Jul	1	8	8.0	962	5,065	5.3	91	484	5.3	1,266	3,803	3.0	618	3,710	6.0
	31	1-Aug	15	203	13.5	931	4,656	5.0	49	374	7.6	10,212	36,180	3.5	1,638	11,469	7.0
	33	15-Aug	0	0	0.0	129	647	5.0	2	13	6.5	201	603	3.0	41	250	6.1
	Total		21	254	12.1	53,083	257,505	4.9	142	871	6.1	12,138	41,947	3.5	2,409	16,177	6.7
Perenosa	24	13-Jun	3	30	10.0	25,251	118,353	4.7	0	0	0.0	0	0	0.0	0	0	0.0
(251-82, 83, 84, 85)	25	20-Jun	2	19	9.5	16,689	75,193	4.5	0	0	0.0	8	22	2.8	14	106	7.6
	26	27-Jun	5	52	10.4	3,087	15,365	5.0	0	0	0.0	0	0	0.0	44	259	5.9
	27	4-Jul	0	0	0.0	1,282	5,337	4.2	0	0	0.0	0	0	0.0	0	0	0.0
	30	25-Jul	0	0	0.0	59	414	7.0	3	22	7.3	84	251	3.0	33	267	8.1
	34	22-Aug	1	11	11.0	15	68	4.5	234	1,586	6.8	3,285	10,557	3.2	42	300	7.1
	Total		11	112	10.2	46,383	214,730	4.6	237	1,608	6.8	3,377	10,830	3.2	133	932	7.0
N.E.Afognak	28	11-Jul	101	407	4.0	764	4,542	5.9	128	778	6.1	5,295	15,859	3.0	3,321	21,378	6.4
(251-90, 252-10, 20)	29	18-Jul	51	269	5.3	1,657	7,640	4.6	331	1,783	5.4	33,019	101,187	3.1	5,541	35,234	6.4
	30	25-Jul	24	143	6.0	1,095	5,596	5.1	1,261	7,098	5.6	11,900	36,412	3.1	8,396	57,961	6.9
	31	1-Aug	12	45	3.8	193	1,057	5.5	279	1,594	5.7	4,795	13,713	2.9	1,313	7,687	5.9
	32	8-Aug	15	113	7.5	74	424	5.7	88	553	6.3	3,082	10,123	3.3	93	599	6.4
	Total		203	977	4.8	3,783	19,259	5.1	2,087	11,806	5.7	58,091	177,294	3.1	18,664	122,859	6.6
Izhut	24	13-Jun	0	0	0.0	529	2,885	5.5	0	0	0.0	0	0	0.0	192	1,320	6.9
(252-30)	25	20-Jun	10	69	6.9	1,586	8,634	5.4	0	0	0.0	22	68	3.1	3,224	19,819	6.1
	26	27-Jun	52	270	5.2	3,877	19,942	5.1	17	89	5.2	508	1,345	2.6	21,490	130,828	6.1
	27	4-Jul	45	323	7.2	5,458	27,645	5.1	100	567	5.7	1,145	3,071	2.7	37,541	241,873	6.4
	28	11-Jul	7	117	16.7	36,456	229,574	6.3	584	3,668	6.3	10,441	31,550	3.0	35,739	246,321	6.9
	29	18-Jul	1	7	7.0	715	4,303	6.0	91	555	6.1	1,141	3,427	3.0	492	2,956	6.0
	30	25-Jul	7	73	10.4	2,576	14,501	5.6	306	1,713	5.6	6,619	20,582	3.1	1,957	12,473	6.4
	31	1-Aug	0	0	0.0	2,397	12,754	5.3	184	1,134	6.2	16,314	51,803	3.2	1,430	9,198	6.4

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Section (Stat Area)	Statistical Week	Week ends	Chinook No.	Chinook lbs.	Chinook avg.	Sockeye No.	Sockeye lbs.	Sockeye avg.	Coho No.	Coho lbs.	Coho avg.	Pink No.	Pink lbs.	Pink avg.	Chum No.	Chum lbs.	Chum avg.
Izhut	35	29-Aug	2	12	6.0	97	451	4.6	11,568	82,463	7.1	94,751	310,280	3.3	103	625	6.1
(252-30)	36	5-Sep	0	0	0.0	41	169	4.1	7,448	53,399	7.2	34,192	116,296	3.4	28	153	5.5
(cont.)	37	12-Sep	0	0	0.0	4	14	3.5	2,218	15,648	7.1	5,093	15,894	3.1	1	6	6.0
	38	19-Sep	0	0	0.0	0	0	0.0	561	3,258	5.8	19	68	3.6	0	0	0.0
	Total		124	871	7.0	53,736	320,872	6.0	23,077	162,494	7.0	170,245	554,384	3.3	102,197	665,572	6.5
Kitoi Bay	24	13-Jun	0	0	0.0	36	217	6.0	0	0	0.0	0	0	0.0	176	1,392	7.9
(252-32)	25	20-Jun	7	50	7.1	781	3,903	5.0	0	0	0.0	3	7	2.3	1,614	11,381	7.1
	26	27-Jun	32	231	7.2	4,333	22,733	5.2	14	66	4.7	279	728	2.6	21,595	138,126	6.4
	27	4-Jul	0	0	0.0	958	4,889	5.1	2	9	4.5	67	162	2.4	7,472	43,921	5.9
	32	8-Aug	0	0	0.0	4,918	24,679	5.0	19	139	7.3	189,868	552,535	2.9	27,456	161,095	5.9
	33	15-Aug	0	0	0.0	5,186	26,450	5.1	1,016	5,953	5.9	742,553	2,251,062	3.0	784	4,373	5.6
	34	22-Aug	0	0	0.0	1,638	7,591	4.6	2,262	13,864	6.1	547,016	1,755,029	3.2	300	1,601	5.3
	35	29-Aug	0	0	0.0	70	373	5.3	4,191	29,165	7.0	162,736	530,846	3.3	2	8	4.0
	37	12-Sep	0	0	0.0	161	826	5.1	4,928	38,807	7.9	6,062	19,211	3.2	3	14	4.7
	38	19-Sep	0	0	0.0	1	4	4.0	1,256	8,583	6.8	473	1,537	3.2	0	0	0.0
	Total		39	281	7.2	18,082	91,665	5.1	13,688	96,586	7.1	1,649,057	5,111,117	3.1	59,402	361,911	6.1
Duck Bay	24	13-Jun	0	0	0.0	827	4,295	5.2	0	0	0.0	17	46	2.7	128	911	7.1
(252-31, 35)	25	20-Jun	27	173	6.4	4,909	23,450	4.8	5	22	4.4	340	984	2.9	1,917	12,253	6.4
	26	27-Jun	109	638	5.9	6,695	35,400	5.3	50	271	5.4	2,566	7,099	2.8	8,874	56,287	6.3
	27	4-Jul	177	775	4.4	17,338	92,215	5.3	1,084	6,057	5.6	6,995	20,027	2.9	57,013	401,071	7.0
	28	11-Jul	1,038	6,464	6.2	103,231	592,247	5.7	4,191	25,813	6.2	29,019	85,358	2.9	65,070	411,252	6.3
	29	18-Jul	133	856	6.4	26,215	144,229	5.5	2,673	15,532	5.8	18,854	55,267	2.9	17,493	117,080	6.7
	30	25-Jul	15	128	8.5	3,325	17,940	5.4	814	4,476	5.5	9,540	28,054	2.9	5,261	30,927	5.9
	31	1-Aug	10	138	13.8	3,815	20,233	5.3	819	4,355	5.3	40,592	125,473	3.1	2,912	16,678	5.7
	35	29-Aug	0	0	0.0	275	1,216	4.4	11,710	83,931	7.2	178,524	565,334	3.2	162	985	6.1
	36	5-Sep	0	0	0.0	71	314	4.4	8,255	54,828	6.6	58,209	194,814	3.3	88	493	5.6
	37	12-Sep	1	3	3.0	13	59	4.5	2,171	15,933	7.3	7,295	22,954	3.1	15	73	4.9
	38	19-Sep	0	0	0.0	0	0	0.0	38	220	5.8	0	0	0.0	0	0	0.0
	Total		1,510	9,175	6.1	166,714	931,598	5.6	31,810	211,438	6.6	351,951	1,105,410	3.1	158,933	1,048,010	6.6
S.E.Afognak	24	13-Jun	0	0	0.0	5,938	29,957	5.0	0	0	0.0	0	0	0.0	14	66	4.7
(252-33, 34)	25	20-Jun	0	0	0.0	2,605	11,980	4.6	0	0	0.0	0	0	0.0	72	430	6.0
	26	27-Jun	0	0	0.0	1,672	8,965	5.4	1	3	3.0	25	69	2.8	5	30	6.0
	27	4-Jul	0	0	0.0	72	437	6.1	0	0	0.0	0	0	0.0	0	0	0.0
	28	11-Jul	3	19	6.3	3,647	22,821	6.3	173	945	5.5	584	2,332	4.0	278	1,853	6.7
	32	8-Aug	0	0	0.0	11	48	4.4	5	24	4.8	448	1,453	3.2	11	48	4.4
	35	29-Aug	0	0	0.0	15	80	5.3	368	2,350	6.4	7,638	25,494	3.3	16	124	7.8
	Total		3	19	6.3	13,960	74,288	5.3	547	3,322	6.1	8,695	29,348	3.4	396	2,551	6.4

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Section (Stat Area)	Statistical Week	Week ends	Chinook No.	Chinook lbs.	Chinook avg.	Sockeye No.	Sockeye lbs.	Sockeye avg.	Coho No.	Coho lbs.	Coho avg.	Pink No.	Pink lbs.	Pink avg.	Chum No.	Chum lbs.	Chum avg.
Central, Terror Bay,	24	13-Jun	61	603	9.9	14,444	80,386	5.6	0	0	0.0	5	18	3.6	1,163	8,678	7.5
Inner Uganik, Spiridon,	25	20-Jun	58	616	10.6	18,025	103,148	5.7	2	13	6.5	21	61	2.9	2,728	19,140	7.0
Zachar, & Uyak combined	26	27-Jun	0	0	0.0	14,902	88,812	6.0	0	0	0.0	0	0	0.0	2	17	8.5
(253-11, 12, 13, 14, 31	27	4-Jul	0	0	0.0	30,195	173,742	5.8	0	0	0.0	169	486	2.9	16	148	9.3
32, 33, 34, 35, 254-10, 20,	28	11-Jul	442	4,485	10.1	92,648	535,173	5.8	420	2,595	6.2	8,989	27,962	3.1	11,587	85,175	7.4
21, 30, 31, 40, 41, 50)	29	18-Jul	817	7,629	9.3	113,950	642,984	5.6	2,210	14,379	6.5	41,301	134,841	3.3	23,012	171,594	7.5
	30	25-Jul	688	7,035	10.2	43,672	245,967	5.6	4,536	30,129	6.6	41,205	144,958	3.5	26,616	181,818	6.8
	31	1-Aug	490	4,415	9.0	24,779	137,561	5.6	5,280	35,086	6.6	63,887	216,277	3.4	15,295	101,818	6.7
	32	8-Aug	474	4,538	9.6	13,358	75,087	5.6	3,906	25,210	6.5	77,039	266,004	3.5	7,801	52,108	6.7
	33	15-Aug	0	0	0.0	2,227	11,531	5.2	2	14	7.0	2,332	7,395	3.2	18	109	6.1
	34	22-Aug	197	2,004	10.2	9,394	51,461	5.5	9,868	65,454	6.6	206,469	711,903	3.4	4,501	30,599	6.8
	35	29-Aug	113	1,134	10.0	6,869	38,151	5.6	10,487	75,124	7.2	156,152	544,103	3.5	2,836	19,367	6.8
	36	5-Sep	98	843	8.6	4,571	22,803	5.0	7,060	48,628	6.9	45,670	155,075	3.4	1,036	7,134	6.9
	37	12-Sep	4	46	11.5	117	598	5.1	1,448	11,159	7.7	4,506	15,614	3.5	86	592	6.9
	38	19-Sep	0	0	0.0	3	12	4.0	51	413	8.1	44	182	4.1	8	45	5.6
	Total		3,442	33,348	9.7	389,154	2,207,416	5.7	45,270	308,204	6.8	647,789	2,224,879	3.4	96,705	678,342	7.0
North Cape, Anton	24	13-Jun	4	72	18.0	5,009	28,846	5.8	0	0	0.0	7	30	4.3	324	2,178	6.7
Larsen, Sheratin,	25	20-Jun	5	26	5.2	4,691	26,124	5.6	0	0	0.0	20	67	3.4	225	1,615	7.2
& Kizhuyak combined	28	11-Jul	18	275	15.3	18,326	105,190	5.7	428	2,447	5.7	4,449	12,323	2.8	3,985	26,205	6.6
(259-30, 31, 32, 33, 34, 35,	29	18-Jul	5	70	14.0	4,729	29,409	6.2	585	3,829	6.5	1,447	5,632	3.9	923	7,794	8.4
36, 37, 38, 39)	30	25-Jul	10	139	13.9	2,581	15,872	6.1	600	3,678	6.1	6,347	22,005	3.5	2,851	22,183	7.8
	31	1-Aug	3	82	27.3	614	3,832	6.2	298	1,962	6.6	5,077	17,856	3.5	1,439	12,202	8.5
	32	8-Aug	1	27	27.0	476	2,708	5.7	413	2,653	6.4	18,497	58,739	3.2	2,328	18,472	7.9
	34	22-Aug	7	87	12.4	399	2,176	5.5	1,908	11,613	6.1	77,194	257,073	3.3	4,469	32,797	7.3
	35	29-Aug	9	103	11.4	79	407	5.2	1,492	10,229	6.9	19,720	68,008	3.4	1,308	7,777	5.9
	36	5-Sep	15	139	9.3	12	50	4.2	140	836	6.0	2,382	6,376	2.7	213	1,412	6.6
	Total		77	1,020	13.2	36,916	214,614	5.8	5,864	37,247	6.4	135,140	448,109	3.3	18,065	132,635	7.3
Outer Karluk (255-20)	35	29-Aug	0	0	0.0	2,921	14,983	5.1	167	1,211	7.3	2,002	6,833	3.4	82	512	6.2
	36	5-Sep	11	27	2.5	1,720	6,860	4.0	338	2,167	6.4	2,544	8,046	3.2	97	658	6.8
	37	12-Sep	0	0	0.0	1,896	7,784	4.1	861	6,173	7.2	1,270	4,194	3.3	35	210	6.0
	Total		11	27	2.5	6,537	29,627	4.5	1,366	9,551	7.0	5,816	19,073	3.3	214	1,380	6.4
Halibut Bay	29	18-Jul	158	1,100	7.0	11,141	58,877	5.3	414	2,680	6.5	11,554	34,003	2.9	2,072	15,512	7.5
(256-25, 30)	30	25-Jul	318	2,529	8.0	13,733	74,776	5.4	1,340	8,429	6.3	34,012	103,111	3.0	6,583	49,188	7.5
	31	1-Aug	25	198	7.9	476	2,680	5.6	127	996	7.8	6,649	21,120	3.2	159	1,236	7.8
	Total		501	3,827	7.6	25,350	136,333	5.4	1,881	12,105	6.4	52,215	158,234	3.0	8,814	65,936	7.5

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Section (Stat Area)	Statistical Week	Week ends	Chinook No.	Chinook lbs.	Chinook avg.	Sockeye No.	Sockeye lbs.	Sockeye avg.	Coho No.	Coho lbs.	Coho avg.	Pink No.	Pink lbs.	Pink avg.	Chum No.	Chum lbs.	Chum avg.
Inner & Outer	25	20-Jun	62	662	10.7	20,554	117,576	5.7	0	0	0.0	130	405	3.1	310	2,177	7.0
Ayakulik	29	18-Jul	82	962	11.7	49,294	274,702	5.6	74	443	6.0	6,758	19,859	2.9	369	2,583	7.0
(256-10, 15, 20)	30	25-Jul	54	428	7.9	18,500	92,021	5.0	256	1,656	6.5	5,459	17,122	3.1	979	6,161	6.3
	31	1-Aug	7	47	6.7	17,444	108,423	6.2	42	300	7.1	1,268	4,567	3.6	93	733	7.9
	32	8-Aug	5	43	8.6	29,189	181,601	6.2	99	708	7.2	13,893	50,082	3.6	81	513	6.3
	33	15-Aug	0	0	0.0	8,895	50,371	5.7	398	2,743	6.9	42,769	141,871	3.3	391	2,320	5.9
	34	22-Aug	0	0	0.0	1,930	10,909	5.7	47	306	6.5	3,802	11,654	3.1	10	70	7.0
	35	29-Aug	0	0	0.0	1,398	8,298	5.9	302	1,806	6.0	3,893	13,122	3.4	1	7	7.0
	36	5-Sep	0	0	0.0	1,197	4,790	4.0	14	89	6.4	461	1,385	3.0	10	59	5.9
	Total		210	2,142	10.2	148,401	848,691	5.7	1,232	8,051	6.5	78,433	260,067	3.3	2,244	14,623	6.5
Cape Alitak	24	13-Jun	39	550	14.1	1,677	9,019	5.4	0	0	0.0	0	0	0.0	34	277	8.1
(257-10, 20)	25	20-Jun	18	262	14.6	1,567	7,946	5.1	0	0	0.0	6	18	3.0	87	672	7.7
	26	27-Jun	154	2,305	15.0	10,037	52,936	5.3	2	6	3.0	1,267	3,849	3.0	1,357	8,935	6.6
	27	4-Jul	5	51	10.2	1,155	5,696	4.9	0	0	0.0	147	437	3.0	160	974	6.1
	28	11-Jul	1,378	9,750	7.1	34,322	209,659	6.1	98	642	6.6	25,015	74,606	3.0	3,875	24,829	6.4
	29	18-Jul	413	4,689	11.4	17,723	112,968	6.4	543	3,414	6.3	83,811	253,819	3.0	2,483	17,159	6.9
	30	25-Jul	85	1,265	14.9	6,736	36,858	5.5	191	1,312	6.9	96,697	298,662	3.1	2,062	13,740	6.7
	31	1-Aug	51	656	12.9	4,864	26,473	5.4	335	2,149	6.4	201,964	638,445	3.2	4,957	32,151	6.5
	32	8-Aug	34	544	16.0	3,861	22,784	5.9	306	2,054	6.7	221,099	692,733	3.1	1,171	8,131	6.9
	33	15-Aug	0	0	0.0	105	610	5.8	9	63	7.0	19,006	58,098	3.1	53	338	6.4
	34	22-Aug	3	44	14.7	323	1,874	5.8	71	512	7.2	4,460	14,277	3.2	28	192	6.9
	35	29-Aug	0	0	0.0	15	73	4.9	50	300	6.0	5,715	20,002	3.5	6	52	8.7
	Total		2,180	20,116	9.2	82,385	486,896	5.9	1,605	10,452	6.5	659,187	2,054,946	3.1	16,273	107,450	6.6
Moser/Olga Bay &	24	13-Jun	0	0	0.0	19,249	103,810	5.4	0	0	0.0	0	0	0.0	61	424	7.0
Dog Salmon Flats	25	20-Jun	0	0	0.0	9,388	48,927	5.2	0	0	0.0	0	0	0.0	73	490	6.7
(257-30, 31, 40, 41, 42, 43)	26	27-Jun	1	7	7.0	16,638	87,827	5.3	0	0	0.0	19	62	3.3	1,221	7,963	6.5
	27	4-Jul	0	0	0.0	7,191	36,562	5.1	0	0	0.0	45	161	3.6	223	1,263	5.7
	28	11-Jul	4	79	19.8	35,431	190,425	5.4	45	315	7.0	938	3,266	3.5	1,675	11,335	6.8
	29	18-Jul	5	44	8.8	24,088	129,139	5.4	16	118	7.4	3,793	13,959	3.7	786	5,755	7.3
	30	25-Jul	8	99	12.4	15,251	82,484	5.4	46	355	7.7	9,069	34,876	3.8	1,076	7,775	7.2
	31	1-Aug	2	20	10.0	17,298	96,300	5.6	57	411	7.2	8,024	31,196	3.9	727	5,136	7.1
	32	8-Aug	3	35	11.7	26,099	146,444	5.6	126	865	6.9	20,432	79,144	3.9	1,080	7,107	6.6
	34	22-Aug	0	0	0.0	7,553	39,977	5.3	973	7,370	7.6	11,178	42,940	3.8	503	3,483	6.9
	Total		23	284	12.3	178,186	961,895	5.4	1,263	9,434	7.5	53,498	205,604	3.8	7,425	50,731	6.8

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Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Stat Area)	Week	ends	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.
Humpy/Deadman	26	27-Jun	0	0	0.0	170	967	5.7	0	0	0.0	10	31	3.1	34	237	7.0
(257-50, 60, 70)	28	11-Jul	0	0	0.0	900	4,504	5.0	14	122	8.7	1,214	3,641	3.0	113	679	6.0
	29	18-Jul	164	1,247	7.6	8,441	49,643	5.9	70	467	6.7	33,298	87,775	2.6	754	5,095	6.8
	30	25-Jul	93	1,294	13.9	8,483	51,184	6.0	168	1,179	7.0	210,288	697,657	3.3	3,151	23,221	7.4
	31	1-Aug	52	754	14.5	5,188	29,955	5.8	905	3,411	3.8	777,409	2,411,437	3.1	4,553	29,234	6.4
	32	8-Aug	59	930	15.8	18,321	105,301	5.7	609	4,029	6.6	1,299,353	4,008,478	3.1	4,824	32,470	6.7
	33	15-Aug	45	473	10.5	4,803	28,276	5.9	313	2,106	6.7	1,001,514	3,064,765	3.1	3,384	22,906	6.8
	34	22-Aug	15	242	16.1	8,623	48,316	5.6	632	4,489	7.1	623,628	1,977,983	3.2	2,511	17,262	6.9
	35	29-Aug	2	41	20.5	2,687	14,938	5.6	503	3,544	7.0	224,061	737,510	3.3	1,642	11,695	7.1
	36	5-Sep	0	0	0.0	21	122	5.8	12	72	6.0	13,041	42,953	3.3	35	249	7.1
	Total		430	4,981	11.6	57,637	333,206	5.8	3,226	19,419	6.0	4,183,816	13,032,230	3.1	21,001	143,048	6.8
Seven Rivers	25	20-Jun	17	178	10.5	2,683	16,668	6.2	0	0	0.0	128	372	2.9	115	831	7.2
(258-70, 80, 85, 90)	26	27-Jun	0	0	0.0	153	933	6.1	0	0	0.0	32	100	3.1	23	165	7.2
	28	11-Jul	66	560	8.5	11,234	70,606	6.3	616	3,801	6.2	5,371	16,217	3.0	1,596	9,931	6.2
	29	18-Jul	6	100	16.7	1,627	10,715	6.6	231	1,463	6.3	940	2,820	3.0	222	1,547	7.0
	30	25-Jul	46	187	4.1	587	3,520	6.0	271	1,896	7.0	8,514	25,541	3.0	552	3,313	6.0
	31	1-Aug	29	317	10.9	253	1,590	6.3	676	4,736	7.0	66,290	182,631	2.8	495	3,712	7.5
	32	8-Aug	147	1,826	12.4	1,026	6,593	6.4	1,144	7,816	6.8	280,044	889,369	3.2	704	4,918	7.0
	33	15-Aug	77	1,054	13.7	448	2,501	5.6	1,083	7,546	7.0	410,430	1,312,383	3.2	635	4,439	7.0
	34	22-Aug	4	95	23.8	603	3,452	5.7	347	2,303	6.6	208,328	631,035	3.0	449	2,975	6.6
	35	29-Aug	0	0	0.0	226	911	4.0	351	2,118	6.0	72,990	225,695	3.1	659	3,968	6.0
	36	5-Sep	0	0	0.0	4	16	4.0	24	145	6.0	1,042	3,441	3.3	20	122	6.1
	Total		392	4,317	11.0	18,844	117,505	6.2	4,743	31,824	6.7	1,054,109	3,289,604	3.1	5,470	35,921	6.6
Two-Headed	26	27-Jun	12	80	6.7	1,899	11,311	6.0	0	0	0.0	589	1,768	3.0	282	1,972	7.0
(258-54, 55, 60)	28	11-Jul	16	185	11.6	40,676	261,884	6.4	530	3,337	6.3	6,995	20,094	2.9	1,643	11,755	7.2
	29	18-Jul	25	247	9.9	11,436	71,767	6.3	638	4,201	6.6	14,074	37,625	2.7	2,825	18,378	6.5
	30	25-Jul	165	1,287	7.8	3,831	24,148	6.3	1,214	7,823	6.4	63,265	192,584	3.0	2,631	17,488	6.6
	31	1-Aug	152	1,863	12.3	1,986	11,424	5.8	1,030	6,753	6.6	275,682	861,545	3.1	3,174	22,869	7.2
	32	8-Aug	93	1,292	13.9	1,650	9,341	5.7	1,438	10,107	7.0	549,150	1,799,516	3.3	5,409	38,300	7.1
	33	15-Aug	69	900	13.0	1,439	8,024	5.6	1,359	8,862	6.5	484,916	1,625,101	3.4	4,642	31,605	6.8
	34	22-Aug	149	2,026	13.6	1,153	6,505	5.6	1,355	9,784	7.2	543,899	1,730,637	3.2	3,975	28,781	7.2
	35	29-Aug	47	483	10.3	228	1,097	4.8	1,211	7,579	6.3	106,374	362,656	3.4	1,746	11,250	6.4
	Total		728	8,363	11.5	64,298	405,501	6.3	8,775	58,446	6.7	2,044,944	6,631,526	3.2	26,327	182,398	6.9

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Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Stat Area)	Week	ends	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.
Sitkalidak	25	20-Jun	4	37	9.3	141	849	6.0	0	0	0.0	24	72	3.0	19	131	6.9
(258-10, 20, 30, 40, 51,	26	27-Jun	87	716	8.2	8,349	46,323	5.5	7	52	7.4	3,405	10,541	3.1	1,824	12,919	7.1
52, 53)	28	11-Jul	594	5,742	9.7	172,183	1,126,074	6.5	3,576	22,624	6.3	45,188	120,846	2.7	9,866	69,733	7.1
	29	18-Jul	976	7,025	7.2	41,986	250,597	6.0	5,621	36,085	6.4	44,824	127,142	2.8	7,321	50,804	6.9
	30	25-Jul	732	6,560	9.0	18,985	110,109	5.8	6,427	38,938	6.1	205,008	628,947	3.1	15,716	99,901	6.4
	31	1-Aug	407	5,237	12.9	5,286	29,929	5.7	2,181	14,813	6.8	404,944	1,272,662	3.1	8,525	62,032	7.3
	32	8-Aug	291	4,134	14.2	2,527	13,545	5.4	2,232	14,171	6.3	695,612	2,248,895	3.2	14,957	104,524	7.0
	33	15-Aug	512	6,731	13.1	1,888	10,521	5.6	2,430	17,353	7.1	1,519,725	4,957,925	3.3	23,465	167,381	7.1
	34	22-Aug	201	2,589	12.9	1,144	6,480	5.7	2,373	16,560	7.0	773,960	2,585,069	3.3	16,686	119,291	7.1
	35	29-Aug	24	352	14.7	131	684	5.2	692	4,511	6.5	79,529	259,755	3.3	2,361	15,063	6.4
	36	5-Sep	127	1,061	8.4	47	258	5.5	943	6,021	6.4	103,137	336,426	3.3	4,556	28,329	6.2
	37	12-Sep	3	39	13.0	3	14	4.7	212	1,631	7.7	11,768	42,888	3.6	1,567	11,959	7.6
	Total		3,958	40,223	10.2	252,670	1,595,383	6.3	26,694	172,759	6.5	3,887,124	12,591,168	3.2	106,863	742,067	6.9
Inner & Outer Ugak	26	27-Jun	21	212	10.1	1,157	6,211	5.4	0	0	0.0	135	408	3.0	337	2,304	6.8
(259-40, 41, 42, 43, 44,	28	11-Jul	5	28	5.6	6,844	46,903	6.9	46	352	7.7	914	2,348	2.6	174	1,206	6.9
45, 46)	29	18-Jul	414	3,438	8.3	17,298	105,288	6.1	723	4,004	5.5	10,781	30,000	2.8	1,754	11,840	6.8
	30	25-Jul	349	3,335	9.6	8,105	44,741	5.5	1,199	7,417	6.2	31,920	101,750	3.2	3,554	24,406	6.9
	31	1-Aug	248	2,723	11.0	3,376	18,073	5.4	763	5,019	6.6	62,132	198,567	3.2	3,428	24,788	7.2
	32	8-Aug	105	1,426	13.6	692	3,627	5.2	320	2,132	6.7	59,580	181,553	3.0	3,539	27,000	7.6
	33	15-Aug	33	390	11.8	264	1,502	5.7	346	2,323	6.7	134,284	461,556	3.4	5,023	34,283	6.8
	34	22-Aug	17	146	8.6	200	1,083	5.4	250	1,765	7.1	84,812	278,571	3.3	6,392	46,701	7.3
	36	5-Sep	0	0	0.0	2	10	5.0	4	15	3.8	826	2,394	2.9	5	30	6.0
	37	12-Sep	0	0	0.0	0	0	0.0	0	0	0.0	477	1,432	3.0	851	5,961	7.0
	Total		1,192	11,698	9.8	37,938	227,438	6.0	3,651	23,027	6.3	385,861	1,258,579	3.3	25,057	178,519	7.1
Outer Chiniak	28	11-Jul	62	413	6.7	5,004	28,215	5.6	207	1,252	6.0	7,004	20,717	3.0	2,446	17,031	7.0
(259-21, 25)	30	25-Jul	17	175	10.3	323	1,677	5.2	128	685	5.4	7,709	22,993	3.0	1,679	9,336	5.6
	31	1-Aug	12	155	12.9	281	1,475	5.2	58	360	6.2	69,957	265,400	3.8	568	4,529	8.0
	32	8-Aug	29	389	13.4	251	1,279	5.1	145	916	6.3	116,965	476,694	4.1	338	2,386	7.1
	33	15-Aug	8	130	16.3	33	179	5.4	23	140	6.1	153,990	511,487	3.3	627	4,839	7.7
	34	22-Aug	0	0	0.0	2	8	4.0	21	133	6.3	12,561	46,028	3.7	71	508	7.2
	Total		128	1,262	9.9	5,894	32,833	5.6	582	3,486	6.0	368,186	1,343,319	3.6	5,729	38,629	6.7
Inner Chiniak	29	18-Jul	0	0	0.0	0	0	0.0	0	0	0.0	81	257	3.2	0	0	0.0
(259-23, 24, 27)	30	25-Jul	0	0	0.0	87	548	6.3	3	22	7.3	2,732	8,887	3.3	8	57	7.1
	31	1-Aug	9	113	12.6	22	107	4.9	15	93	6.2	19,109	65,152	3.4	85	674	7.9
	32	8-Aug	10	179	17.9	24	126	5.3	20	97	4.9	105,657	382,569	3.6	571	3,935	6.9
	33	15-Aug	28	362	12.9	15	79	5.3	57	341	6.0	217,092	723,724	3.3	1,866	12,845	6.9
	34	22-Aug	4	50	12.5	10	48	4.8	84	661	7.9	51,432	174,048	3.4	434	2,956	6.8
	35	29-Aug	0	0	0.0	22	117	5.3	50	323	6.5	7,092	23,516	3.3	169	971	5.7
	Total		51	704	13.8	180	1,025	5.7	229	1,537	6.7	403,195	1,378,153	3.4	3,133	21,438	6.8

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Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Stat Area)	Week	ends	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.
Buskin River	30	25-Jul	0	0	0.0	0	0	0.0	0	0	0.0	23	82	3.6	43	279	6.5
(259-22, 26)	31	1-Aug	0	0	0.0	0	0	0.0	0	0	0.0	2,301	7,261	3.2	168	1,092	6.5
	32	8-Aug	0	0	0.0	0	0	0.0	0	0	0.0	5,377	18,939	3.5	1,419	9,282	6.5
	33	15-Aug	0	0	0.0	25	138	5.5	31	183	5.9	72,818	274,446	3.8	8,756	61,306	7.0
	34	22-Aug	0	0	0.0	13	68	5.2	119	759	6.4	43,647	165,154	3.8	3,863	26,869	7.0
	35	29-Aug	0	0	0.0	0	0	0.0	47	318	6.8	6,925	26,123	3.8	990	7,195	7.3
	Total		0	0	0.0	38	206	5.4	197	1,260	6.4	131,091	492,005	3.8	15,239	106,023	7.0
Monaska/Mill Bay	32	8-Aug	0	0	0.0	19	96	5.1	13	91	7.0	922	3,227	3.5	44	309	7.0
(259-10)	Total		0	0	0.0	19	96	5.1	13	91	7.0	922	3,227	3.5	44	309	7.0
Big River	30	25-Jul	0	0	0.0	11	80	7.3	12	80	6.7	23	70	3.0	38	267	7.0
(262-10,15)	Total		0	0	0.0	11	80	7.3	12	80	6.7	23	70	3.0	38	267	7.0
Outer Kukak	30	25-Jul	0	0	0.0	85	539	6.3	26	134	5.2	385	1,155	3.0	295	2,044	6.9
(262-25, 30)	31	1-Aug	7	37	5.3	96	482	5.0	33	266	8.1	162	488	3.0	109	982	9.0
	33	15-Aug	0	0	0.0	12	60	5.0	29	151	5.2	202	633	3.1	5,666	37,572	6.6
	Total		7	37	5.3	193	1,081	5.6	88	551	6.3	749	2,276	3.0	6,070	40,598	6.7
Dakavak	29	18-Jul	202	1,142	5.7	6,015	39,193	6.5	254	1,679	6.6	2,550	7,503	2.9	1,485	11,124	7.5
(262-35, 40, 45, 50, 55)	30	25-Jul	183	1,356	7.4	18,626	118,717	6.4	1,892	12,227	6.5	11,490	40,916	3.6	6,195	42,102	6.8
	31	1-Aug	79	717	9.1	5,430	31,203	5.7	1,652	6,752	4.1	4,464	12,257	2.7	5,214	32,262	6.2
	32	8-Aug	0	0	0.0	397	2,385	6.0	74	523	7.1	826	3,306	4.0	307	2,458	8.0
	33	15-Aug	2	32	16.0	84	409	4.9	264	2,349	8.9	8,011	26,416	3.3	1,329	10,857	8.2
	34	22-Aug	0	0	0.0	0	0	0.0	0	0	0.0	346	1,382	4.0	143	1,000	7.0
	Total		466	3,247	7.0	30,552	191,907	6.3	4,136	23,530	5.7	27,687	91,780	3.3	14,673	99,803	6.8
Katmai	30	25-Jul	2	50	25.0	3,285	22,998	7.0	243	1,702	7.0	918	2,755	3.0	415	3,326	8.0
(262-60)	31	1-Aug	5	54	10.8	837	3,681	4.4	310	1,271	4.1	1,192	3,456	2.9	964	4,819	5.0
	Total		7	104	14.9	4,122	26,679	6.5	553	2,973	5.4	2,110	6,211	2.9	1,379	8,145	5.9
Alinchak	28	11-Jul	18	188	10.4	1,901	12,306	6.5	83	586	7.1	1,415	4,370	3.1	976	6,763	6.9
(262-65, 70)	31	1-Aug	32	269	8.4	0	0	0.0	5	26	5.2	16,253	63,288	3.9	2,114	12,717	6.0
	32	8-Aug	0	0	0.0	0	0	0.0	4	29	7.3	23,491	84,069	3.6	1,495	11,248	7.5
	33	15-Aug	20	234	11.7	0	0	0.0	2	16	8.0	61,065	216,563	3.5	7,877	60,844	7.7
	34	22-Aug	0	0	0.0	0	0	0.0	0	0	0.0	64,266	205,644	3.2	2,654	15,316	5.8
	Total		70	691	9.9	1,901	12,306	6.5	94	657	7.0	166,490	573,934	3.4	15,116	106,888	7.1

Section	Statistical	Week	Chinook			Sockeye			Coho			Pink			Chum		
(Stat Area)	Week	ends	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.	No.	lbs.	avg.
Cape Igvak	24	13-Jun	438	4,961	11.3	203,595	1,321,967	6.5	0	0	0.0	290	876	3.0	13,815	93,537	6.8
(262-75, 80, 90, 95)	25	20-Jun	239	2,685	11.2	155,636	1,003,528	6.4	0	0	0.0	1,560	4,646	3.0	11,855	82,286	6.9
	26	27-Jun	1,490	12,759	8.6	190,256	1,257,801	6.6	19	120	6.3	14,244	43,422	3.0	40,497	279,209	6.9
	31	1-Aug	55	496	9.0	2,487	13,301	5.3	838	5,800	6.9	17,252	61,497	3.6	6,716	48,323	7.2
	34	22-Aug	11	145	13.2	566	3,198	5.7	1,165	9,359	8.0	12,810	42,284	3.3	1,801	12,316	6.8
	Total		2,233	21,046	9.4	552,540	3,599,795	6.5	2,022	15,279	7.6	46,156	152,725	3.3	74,684	515,671	6.9
Wide Bay	31	1-Aug	0	0	0.0	130	778	6.0	25	175	7.0	305	1,523	5.0	208	1,452	7.0
(262-85)	34	22-Aug	0	0	0.0	0	0	0.0	0	0	0.0	5,725	20,041	3.5	0	0	0.0
	Total		0	0	0.0	130	778	6.0	25	175	7.0	6,030	21,564	3.6	208	1,452	7.0
	Grand Total		18,454	173,049	9.4	2,266,651	13,430,310	5.9	188,474	1,257,867	6.7	16,642,402	53,423,245	3.2	823,202	5,557,410	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, 2011.

	Number of Fish				
District	Chinook	Sockeye	Coho	Pink	Chum
Afognak	0	59,998	21,987	127,594	164
Northwest Kodiak	0	41,850	6,140	394,550	79,550
Southwest Kodiak	7,736	578,823	32,140	194,168	8,579
Alitak Bay	83	265,517	6,432	532,322	76,107
Eastside Kodiak	1	45,920	6,358	798,063	110,400
Northeast Kodiak	0	11,982	10,555	460,017	8,730
Mainland	0	10,750	200	273,500	138,600
Area Total	7,820	1,014,840	83,812	2,780,214	422,130