Kodiak Management Area Harvest Strategy for the 2015 Commercial Salmon Fishery

by

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March 2015

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



Symbols and Abbreviations

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Weights and measures (metric)		General		Mathematics, statistics	
centimeter	cm	Alaska Administrative		all standard mathematical	
deciliter	dL	Code	AAC	signs, symbols and	
gram	g	all commonly accepted		abbreviations	
hectare	ha	abbreviations	e.g., Mr., Mrs.,	alternate hypothesis	H_A
kilogram	kg		AM, PM, etc.	base of natural logarithm	e
kilometer	km	all commonly accepted		catch per unit effort	CPUE
liter	L	professional titles	e.g., Dr., Ph.D.,	coefficient of variation	CV
meter	m		R.N., etc.	common test statistics	$(F, t, \chi^2, etc.)$
milliliter	mL	at	@	confidence interval	CI
millimeter	mm	compass directions:		correlation coefficient	
		east	E	(multiple)	R
Weights and measures (English)		north	N	correlation coefficient	
cubic feet per second	ft^3/s	south	S	(simple)	r
foot	ft	west	\mathbf{W}	covariance	cov
gallon	gal	copyright	©	degree (angular)	0
inch	in	corporate suffixes:		degrees of freedom	df
mile	mi	Company	Co.	expected value	E
nautical mile	nmi	Corporation	Corp.	greater than	>
ounce	OZ	Incorporated	Inc.	greater than or equal to	≥
pound	lb	Limited	Ltd.	harvest per unit effort	HPUE
quart	qt	District of Columbia	D.C.	less than	<
yard	yd	et alii (and others)	et al.	less than or equal to	≤
•	,	et cetera (and so forth)	etc.	logarithm (natural)	ln
Time and temperature		exempli gratia		logarithm (base 10)	log
day	d	(for example)	e.g.	logarithm (specify base)	log ₂ etc.
degrees Celsius	°C	Federal Information		minute (angular)	
degrees Fahrenheit	°F	Code	FIC	not significant	NS
degrees kelvin	K	id est (that is)	i.e.	null hypothesis	H_0
hour	h	latitude or longitude	lat. or long.	percent	%
minute	min	monetary symbols	•	probability	P
second	S	(U.S.)	\$, ¢	probability of a type I error	
		months (tables and		(rejection of the null	
Physics and chemistry		figures): first three		hypothesis when true)	α
all atomic symbols		letters	Jan,,Dec	probability of a type II error	
alternating current	AC	registered trademark	®	(acceptance of the null	
ampere	A	trademark	TM	hypothesis when false)	β
calorie	cal	United States		second (angular)	,
direct current	DC	(adjective)	U.S.	standard deviation	SD
hertz	Hz	United States of		standard error	SE
horsepower	hp	America (noun)	USA	variance	
hydrogen ion activity	рH	U.S.C.	United States	population	Var
(negative log of)	1		Code	sample	var
parts per million	ppm	U.S. state	use two-letter	· r	
parts per thousand	ppt,		abbreviations		
1 1	% ₀		(e.g., AK, WA)		
volts	V				
watts	W				

FISHERY MANAGEMENT REPORT NO. 15-16

KODIAK MANAGEMENT AREA HARVEST STRATEGY FOR THE 2015 COMMERCIAL SALMON FISHERY

Ву

James Jackson 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 March 2015

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ABSTRACT

The Alaska Department of Fish and Game (ADF&G) will manage the commercial salmon fisheries in the Kodiak Management Area (KMA) to promote maximum sustained yield for future KMA salmon returns by achieving salmon escapement goals and providing opportunity to harvest salmon in excess of those goals. ADF&G will attempt to provide for orderly fisheries while maximizing harvest opportunities on the highest quality salmon. ADF&G will adhere to the biological and allocative requirements of the management plans adopted by the Alaska Board of Fisheries for the KMA. Management of the fisheries follows a general chronology based on the run timing of four commercially targeted salmon species: sockeye *Oncorhynchus nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum *O. keta* salmon.

The 2015 preseason forecasts project a harvest of approximately 3,494,116 sockeye, 330,889 coho, and 14,298,094 pink and 707,416 chum salmon. Additionally, an estimated 15,000 Chinook salmon *O. tshawytscha* could be harvested incidentally in fisheries targeting other salmon species. All fishing periods are established by emergency order. The initial sockeye salmon commercial test fishing period for the west side of Kodiak Island is tentatively scheduled for June 9, but may occur as early as June 1. A June 9 fishery opening is also planned for the Duck Bay, Izhut Bay, Inner Kitoi, Outer Kitoi Bay sections, and the Foul Bay and Waterfall Bay Special Harvest areas. The initial commercial test fishing period in the Alitak District will be determined based on inseason indicators of run strength. On July 6, the initial weekly fishing period targeting pink salmon will be 57 hours (~2½ days) in length for Kodiak Archipelago sections and the Mainland District sections north of Cape Aklek.

Key Words: Alaska Department of Fish and Game, Kodiak, Afognak, Alaska Peninsula, Karluk, Ayakulik, Frazer, Upper Station, Alitak, Cape Igvak, North Shelikof, commercial fishery, salmon, management plan, purse seine, set gillnet, KMA, Chinook salmon, *Oncorhynchus tshawytscha*, sockeye salmon, *O. nerka*, coho salmon, *O. kisutch*, pink salmon, *O. gorbuscha*, chum salmon, *O. keta*

INTRODUCTION

The Kodiak Management Area (KMA; Figure 1) 2015 commercial salmon fishery harvest strategy emphasizes the following three criteria:

- 1) Promote maximum sustained yield for future KMA salmon returns by ensuring salmon escapements of sufficient magnitude and distribution.
- 2) Provide for orderly fisheries while maximizing harvest opportunities on the highest quality salmon.
- 3) Adhere to the biological and allocative requirements of all management plans adopted by the Alaska Board of Fisheries (BOF) for the KMA salmon fishery.

There are 10 salmon management plans that direct Alaska Department of Fish and Game (ADF&G) management activities for specific portions and time periods of KMA (Table 1; Appendices B1-B6). Within KMA there are seven districts which are further broken down into sections and statistical areas (Figures 2–8). All salmon fishing districts within KMA are managed by regulatory plans for the entire season. Proper implementation of these plans requires good communication between ADF&G and fishing industry personnel.

Salmon run timing within KMA follows a general chronology by species (Figure 9). Commercial fisheries management is based on the run timing of four targeted salmon species: sockeye *Oncorhynchus nerka*, coho *O. kisutch*, pink *O. gorbuscha*, and chum salmon *O. keta*.

KMA salmon fisheries are managed with data that are compiled and evaluated daily. These data include escapement information from weir counts and/or aerial, boat, and foot surveys, and total catch and fishery performance trends over time.

Management of major sockeye salmon runs are based on escapement, and utilize daily escapement information from salmon counting weirs on several of the larger streams (Appendices A1–A11). Due to inadequate funding, ADF&G now relies on inseason aerial survey counts of smaller streams. For many of these small systems, aerial survey counts are not available until sockeye salmon begin to move into their spawning streams. This means that escapement data are obtained much later in the season. Due to this lag in timing, ADF&G employs a more conservative management approach which includes increased closed water areas and reduced fishing time. These management actions will likely occur for systems that have the potential to be overharvested or have shown signs of overharvest in previous years.

The length of the initial fishing periods for pink salmon are determined preseason based on the magnitude of the wild stock pink salmon forecast. Adjustments in weekly fishing time and areas open to fishing will occur as the actual run strength becomes apparent through assessment of harvest and escapement estimates.

Initially, chum and coho salmon are incidentally harvested in fisheries directed at sockeye or pink salmon. Terminal or near-terminal fisheries targeting chum or coho salmon will be managed based on an assessment of actual run strength and current harvest information.

Commercial fisheries are not currently directed toward surplus Chinook salmon *O. tshawytscha*. Incidental harvests of Chinook salmon occur during directed sockeye and pink salmon fisheries.

ALASKA BOARD OF FISHERIES REGULATION CHANGES FROM THE JANUARY 2014 MEETING

The Alaska Board of Fisheries met in Kodiak during January 2014 to discuss KMA salmon fishery regulations. Changes were made that will be in effect for the 2015 commercial salmon season. A synopsis of several important regulations and regulation changes are detailed below, but all participants in the Kodiak commercial salmon fishery are urged to make themselves aware of all applicable regulations. Copies of the KMA commercial salmon fishery regulations and the most recent Kodiak Area Salmon Statistical Chart (revised January 2015) are available at the Kodiak ADF&G office.

ALITAK DISTRICT

From June 1 through July 15, fishing opportunity will be based on the biological escapement goals (BEG) for both early Upper Station sockeye salmon and the Frazer system sockeye salmon, except the early Upper Station sockeye salmon run will be managed for sustained yield by an optimal escapement goal of 30,000 fish if the department determines that the upper end of the Frazer system sockeye salmon escapement goal will be exceeded. From June 1 through September 15, fishing periods for the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay sections will be established by emergency order and will open and close at the same time. Fishing periods in the Humpy-Deadman Section will follow previous management strategies, with openings occurring concurrently with the Cape Alitak Section until July 15, and based on local pink and chum salmon stocks after July 15.

Regulations for the Dog Salmon Flats Section allow ADF&G to provide fishing opportunity based on the perceived run strength and escapement of Frazer Lake sockeye, pink, and coho salmon. ADF&G shall give at least 24 hours advance notice before opening the Dog Salmon

Flats Section. ADF&G will attempt to provide fishing periods in the Dog Salmon Flats Section concurrently with other sections in the Alitak District.

RELEASE OF LARGE CHINOOK (KING) SALMON BY PURSE SEINE FISHERMEN

In addition to provisions found in 5 AAC 18.395, regulations were adopted that require Chinook salmon 28 inches or greater in length taken during the commercial salmon seine fishery may not be retained and must be immediately returned to the water in KMA from June 1 through July 5.

Though these regulations remain unchanged, ADF&G would like to remind commercial seine fishermen may be required to release large Chinook salmon (greater than 28 inches in length) from their catch from July 6 through July 30 if ADF&G determines that the Karluk or Ayakulik Chinook salmon runs will not likely meet seasonal escapement goals. This would occur in the Inner Karluk, Outer Karluk, Inner Ayakulik, or Outer Ayakulik sections and that portion of the Northwest Kodiak District south of the latitude of Cape Kuliuk.

HARVEST PROJECTIONS

Based on preseason projections, a total of approximately 15,000 Chinook, 3,494,116 sockeye, 330,889 coho, 14,298,094 pink, and 707,416 chum salmon are predicted to be available for harvest throughout the KMA in 2015 (Table 2).

Of this total, the Kodiak Regional Aquaculture Association (KRAA) has forecasted the harvest of salmon returning to the Kitoi Bay Hatchery to be approximately 87,516 sockeye, 7,365,000 pink, 171,000 chum, and 153,000 coho salmon (Table 2). Additional enhanced salmon production, from projects conducted by KRAA and ADF&G, are expected to produce approximately 313,909 sockeye salmon for harvest (e.g., Spiridon Lake and Hidden Lake; Table 2).

A large portion of these salmon will be harvested in cost recovery programs conducted by KRAA at Kitoi Bay and Telrod Cove. The cost recovery program in Kitoi Bay will attempt to harvest 9,000,000 pounds of pink salmon before August 24. The cost recovery program in Telrod Cove will attempt to harvest 600,000 pounds of sockeye salmon before July 20.

FISHING PERIODS

All fishing periods will be established by emergency order.

ADVANCE NOTICE

For the initial sockeye salmon fisheries from June 1 through June 14, there will be at least 42 hours advance notice. All subsequent fishing periods will have at least 18 hours advance notice. There will be at least 24 hours advance notice for openings of the Cape Igvak Section (Figure 2) fishery. For the openings in the Inner or Outer Akalura, Inner or Outer Upper Station, or Dog Salmon Flats sections (Figure 3), there will be at least 24 hours advance notice. For adjustments to closed waters (decrease), there will be at least 18 hours advance notice.

For extension of a previously announced fishing period, or for inperiod closure of an announced fishing period, there will be at least three hours advance notice.

FISHERY OPENING TIMES

Most fishing periods from June 1 through August 15 open at noon and close at 9:00 PM. Beginning on August 16, most fishing periods will close at 6:00 PM instead of 9:00 PM.

There are several exceptions to this opening/closure schedule:

- The Cape Igvak fishery opens at 12:01 AM and closes at 12:01 AM from June 1 through July 25. The 12:01 AM opening and closure time allows for more orderly fisheries due to the possibility of relatively short notice given for extensions of fishing periods.
- The Inner Ayakulik Section (Figure 4) usually opens at noon and may be of short duration. If possible, the opening time for the Outer Ayakulik Section may be adjusted to coincide with the Inner Ayakulik Section.
- The Inner Kitoi Bay Section (Figure 5) common property fisheries will usually begin between noon and 12:30 PM, when a flare is launched by hatchery staff within the Inner Kitoi Bay Section.

TIMING AND LENGTH OF INITIAL FISHING PERIODS

Sockeye Salmon

The first commercial salmon fishing period could begin as early as Monday June 1, 2015 but most fisheries are likely to open on Tuesday June 9.

Initial Commercial Fisheries June 1 to June 9

Cape Igvak Section of the Mainland District (Figure 2).

The Foul Bay and Waterfall Bay Special Harvest areas of the Afognak District (Figure 5).

Inner and Outer Ayakulik sections of the Southwest Kodiak District (Figure 4) and the Southeast Afognak Section of the Afognak District (Figure 5).

Chignik sockeye salmon are considered, by regulation, the principal stock harvested in the Cape Igvak Section from June 1 to July 25. The timing of initial commercial fisheries in the Cape Igvak Section depends on the evaluation of the Chignik sockeye salmon run strength (Appendix B6). The first Cape Igvak fishery may occur beginning June 1. Fishing periods in the Cape Igvak Section will be in 24-hour increments, beginning at 12:01 AM (5 AAC 18.360).

These fisheries could open as early as noon Monday, June 1, and remain open until further notice (5 AAC 18.365).

The initial fishing period in the Inner and Outer Ayakulik sections and the Southeast Afognak Section is solely dependent on sockeye salmon escapement to the Ayakulik (Red; Appendix B1) or Afognak (Litnik; Appendix B4) systems, respectively (5 AAC 18.362). Since both of these systems have early runs that are expected to be moderately strong, fishing periods could occur as early as June 1.

The Central and North Cape sections of the Northwest Kodiak District (Figures 6).

Anton Larsen, Sharatin Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, Zachar Bay, Kizhuyak, and Uyak Bay sections of the Northwest Kodiak District (Figure 6).

Cape Alitak, Humpy-Deadman, Alitak Bay, Moser Bay, Olga Bay, and Dog Salmon Flats sections of the Alitak District (Figure 3).

Duck Bay, Izhut Bay, Inner Kitoi Bay, and Outer Kitoi Bay sections (Figure 5).

For these sections, a 33-hour commercial test fishing period may be conducted between June 1 and June 9. An extension of this period will depend on escapement buildups in Karluk Lagoon (Appendix B1). The commercial catch from this period will be used to assess the strength of the sockeye salmon run to the Karluk system, with consideration of the Ayakulik, Frazer (Dog Salmon), and Upper Station sockeye salmon runs (5 AAC 18.362; Appendix B1).

These sections could open June 1, but are likely to open at noon Monday, June 9, for a 33-hour commercial test fishing period. Management of these sections is based on local chum or sockeye salmon runs (Appendix B1).

Depending on early indications of sockeye salmon run strength to Frazer and Upper Station, these sections may open at noon Tuesday, June 9 as a commercial test fishing period, (Appendix B2). Since both of these runs are expected to be weak to moderate, the June 9 test fishing period is not likely.

These fisheries could open June 1, but are likely to open at noon Tuesday, June 9. Once open, the fishing period is likely to be open until further notice. The fishery for the Kitoi Bay Hatchery early chum salmon runs may extend through late June (5 AAC 18.365).

June 14 to June 21 Commercial Fisheries

Commercial fisheries in the following management units may also occur on or after June 14 if escapement objectives are met or exceeded.

The Central and North Cape sections of the Northwest Kodiak District and the Southwest Afognak Section of the Afognak District (Figure 4, 5, and 6). For these sections, a 33-hour commercial test fishing period may occur from noon Sunday, June 14 through 9:00 pm Monday, June 15. An extension of this period will depend on escapement through the weir and buildup in Karluk Lagoon (Appendix B1). The commercial catch from this period will be used to assess the strength of the sockeye salmon run to the Karluk system.

Anton Larsen, Sharatin Bay, Terror Bay, Inner Uganik Bay, Spiridon Bay, Zachar Bay, Kizhuyak and Uyak Bay sections of the Northwest Kodiak District (Figure 6).

These sections may open at noon Sunday, June 14 as a 33-hour commercial test fishing period.

Perenosa Bay, Pauls Bay, and Northwest Afognak sections of the Afognak District (Figure 5) Eastside Kodiak District (Figure 7) Big River and Outer Kukak Bay sections of the Mainland District (Figure 2).

Commercial salmon fishing will open at noon Sunday, June 14 for a 33-hour fishing period. This initial fishing period targets early-run sockeye salmon bound for Pauls, Portage, Thorsheim, Long Lagoon, Saltery, Maim, Pasagshak, Ocean Beach, Swikshak, and Kaflia systems (Appendices B3, B5 and B6). However, Pauls Bay and Portage may open as early as June 1 if escapements into these sections are being met. A second fishing period for minor sockeye salmon systems should occur on Sunday, June 21 (5 AAC 18.362; 5 AAC 18.367; 5 AAC 18.368; 5 AAC 18.369).

Spiridon Bay Special Harvest Area (Telrod Cove; Figure 6).

The initial commercial salmon fishing period targeting enhanced sockeye salmon returning to Telrod Cove is not expected to occur until after a cost recovery fishery has been finalized or after July 20. The actual starting date will depend on the salmon buildups in Telrod Cove, ADF&G's ability to monitor the commercial fisheries (5 AAC 18.366), and the progress of the cost recovery harvest.

Additional fishing time from mid-June through early July will be based on sockeye salmon run strength as determined by salmon escapement counts, salmon buildups, and fishery performance (Appendix B1-B6). In order to maintain sockeye salmon escapements within established goal ranges, commercial fishing may be extended or curtailed.

Directed commercial fisheries within the Inner Karluk Section are solely dependent on Karluk River sockeye salmon escapement (Appendix B1), and are only expected to occur if it appears likely that either the early-run or late-run Karluk desired sockeye salmon escapement goal would be exceeded.

For most late-run sockeye salmon stocks, a portion of the harvestable surplus is taken during fishing periods targeting pink salmon. Consequently, a blended management strategy is needed to ensure that escapements for each species are achieved. Commercial fisheries targeting Upper Station late-run sockeye salmon begins July 16 (5 AAC 18.361; Appendix B2) and fisheries targeting Karluk late-run sockeye salmon may begin August 16 (5 AAC 18.362; Appendix B1).

Alitak District Salmon Management Plan

With the new regulation changes to the *Alitak District Salmon Management Plan*, the forecasted early-run sockeye salmon run to Upper Station, and the forecasted return to Frazer Lake, ADF&G does <u>not</u> anticipate that there will be a test fishery on June 9 in the Alitak District. Fishing periods in the Alitak District from June 1 through July 15 will be based on both the early-run Upper Station sockeye salmon BEG of 43,000 to 93,000 fish and the Dog Salmon sockeye salmon escapement goal of 95,000 to 190,000 fish. Except that in the event that the sockeye salmon return to Dog Salmon is stronger than expected, and ADF&G perceives that the upper escapement goal value will be exceeded, then the 30,000 sockeye salmon optimal escapement goal for early-run Upper Station will take effect. After July 15, ADF&G will manage the Cape Alitak, Alitak Bay, Moser Bay, and Olga Bay sections based on mixed stock management; taking into consideration both sockeye salmon, and pink salmon returning to the Frazer system. The Humpy-Deadman Section will be managed concurrently with the other sections located within the Alitak District from June 1 through July 15, and after July 15 will be based on salmon returning to local systems within the Humpy-Deadman Section.

In addition to the management strategy described above, there is the potential for large numbers of jack sockeye salmon (jacks) to return the Frazer system. Jacks will be counted at both the Dog Salmon weir and Frazer fish pass. If jacks counted through the Dog Salmon weir exceed 10% of the total overall cumulative sockeye salmon escapement, then those jacks in excess of the 10% will not be considered towards the total escapement of sockeye salmon into the Frazer system. In the event that there is a large proportion of jacks, fishing periods may be restricted in order to meet escapement needs of adult, non-jack sockeye salmon into the Frazer system.

Pink Salmon

In addition to the three management criteria identified in the introduction of this document, the KMA harvest strategy for pink salmon also utilizes:

- a fixed opening date (July 6),
- wild stock pink salmon forecasts to set the length of the initial fishing periods, and
- coordination of multiple fisheries, whenever possible, to disperse the purse seine fleet.

The initial pink salmon fishing period in the Kodiak Archipelago will be 57 hours in length. From July 6 to July 25, fishing time for that portion of the Mainland District north of Cape Aklek will not exceed 57 hours per week (this does not include the Cape Igvak or Wide Bay sections, which are managed in accordance with the Cape Igvak Salmon Management Plan; 5 AAC 18.360; Appendix B6).

The following schedule of pink salmon fishing periods for the 2015 season is provided for industry planning purposes. Changes to the following schedule should be expected if the perceived pink salmon run strength is weaker or stronger than forecasted. No extensions will occur during the first two periods. Extensions to later fishing periods may occur depending on run strength.

First Period: 57 hours – from noon Monday, July 6 through 9:00 PM Wednesday, July 8. Harvests during this initial period provide important data to assess early run strength of KMA pink and chum salmon stocks. There will be no extension in fishing time following this period.

Second Period: 57 hours – from noon Monday, July 13 through 9:00 PM Wednesday, July 15. During the second period, run strength for both pink and chum salmon will again be assessed from harvest data. There will be no extension in fishing time following this period.

Third Period: 57 hours – from noon Monday, July 20 through 9:00 PM Wednesday, July 22. The previous closures will likely allow an influx of pink and chum salmon into terminal closed areas, resulting in the buildup of potential escapement. At this time, a combination of harvest and early escapement and/or buildup information should provide an indication of the actual run strength for major pink salmon stocks. If the pink salmon run is strong, extensions in fishing time may occur if escapements are sufficient within the systems. In the Mainland District north of Cape Aklek, this period will also be 57 hours, from noon Monday, July 20 through 9:00 PM Wednesday, July 22 but no extensions may occur until after July 25. In the Inner or Outer Kitoi Bay, Izhut Bay, or Duck Bay sections, fishery restrictions may occur to meet hatchery cost recovery needs (Appendix B4).

Fourth Period: 57 hours – from noon Monday, July 27 through 9:00 PM Wednesday, July 29. During this period the run strength should be evident by the end of the period. The pink salmon harvest has traditionally increased during this period. If the pink salmon run is strong, extensions in fishing time will occur. In the Inner or Outer Kitoi Bay, Izhut Bay, or Duck Bay sections, fishery restrictions may occur to meet hatchery cost recovery needs (Appendix B4).

Subsequent fishing periods will likely follow the same weekly pattern through August, unless escapement information indicates that an extension or reduction of fishing time is necessary. Fishing time will be based on pink salmon returns to individual systems. Differential fishing time, by management unit, may occur as stronger production areas are targeted, while moderate or lower production areas are provided additional protection. There may be changes in closed water sanctuaries to increase escapement levels or to harvest surplus salmon.

From approximately August 1 through August 24, there will be cost recovery fisheries for the Kitoi Bay Hatchery. These cost recovery fisheries will primarily occur within the Inner Kitoi Bay Section, but may also expand into the Outer Kitoi Bay Section. There may be restricted fishing time in the Izhut Bay and Duck Bay sections during this time period to allow fish to move into the Kitoi Bay sections for cost recovery and broodstock needs (Appendix B4).

Chum Salmon

The supplemental Kitoi Bay Hatchery chum salmon run is projected to be moderate to strong in 2015 (Table 2). Liberal amounts of fishing time in the vicinity of the hatchery should begin in early June and could extend into late-June/early-July.

With the exception of chum salmon returning to the Kitoi Bay Hatchery, a major portion of the 2015 chum salmon harvest will occur in non-terminal locations during directed sockeye and pink salmon fisheries. The initial fishing periods targeting chum salmon will begin on July 6 and will follow the same opening dates and times as those for pink salmon. System specific chum salmon fisheries that occur during the pink salmon fishery may result in some management units (such as the Kizhuyak Bay, Terror Bay, Uganik Bay, Uyak Bay, Sturgeon, Spiridon Bay, Zachar Bay, Deadman Bay, Portage Bay, Wide Bay, Inner or Outer Kukak Bay, Barling Bay, Sitkalidak Straits, Kiliuda Bay, or Ugak Bay sections) having more or less fishing time than those targeting primarily pink salmon stocks (Appendices B1, B3, and B6). Additional fishing time after July 25 for that portion of the Mainland District north of Dakavak Bay will depend on assessment of local pink, chum, and coho salmon runs. Chum salmon run strength will be assessed primarily from aerial survey and harvest data.

Coho Salmon

Initially, coho salmon harvests will occur in non-terminal locations during directed pink salmon fisheries. System specific coho salmon fisheries may occur during the pink salmon fishery, and may result in some management units having more or less fishing time than those primarily targeting pink salmon stocks (such as the Shuyak Island, Pauls Bay, Perenosa Bay, or Inner Ayakulik and Inner Karluk sections; Appendices B1 and B5). Coho salmon run strength will be assessed from weir escapements, aerial surveys, foot surveys, and harvest data.

Directed coho salmon fisheries may begin on August 1 in both the Pauls Bay and Shuyak Island sections (Appendix B5). The supplemental Kitoi Bay Hatchery coho salmon run is projected to be strong this season (Table 2). Additional fishing time in the vicinity of the hatchery may occur in early September after pink salmon broodstock requirements are ensured (Appendix B4).

INPERIOD CLOSURES

From July 6 through July 25, there are limits on the number of sockeye salmon that may be harvested in areas bordering the North Shelikof Strait (5 AAC 18.363). Purse seine permit holders operating in the North Shelikof Strait from July 6 to July 25 are advised that inperiod closures of designated Seaward Zones will occur in the likely event the harvest of sockeye salmon approach these limits (Figure 5; 5 AAC 18.360). Since the plan went into effect in 1990, Seaward Zone closures have occurred nearly every year.

Seaward Zone closures, if required, will be announced on single side band radio frequency 3.230 MHz from the ADF&G office in Kodiak, and on VHF 6 from the *R/V K-Hi-C* on the fishing grounds. In-period Seaward Zone closures announcement times will be 8:30 AM, 10:00 AM, NOON, 2:00 PM, 5:00 PM, or 8:00 PM. There will be at least three hours advance notice given for Seaward Zone closures.

INSEASON FISHERY ANNOUNCEMENTS

After enough information has been collected to determine an appropriate amount fishing time to harvest surplus fish, a fishery announcement or News Release (NR) will be issued as follows:

- 1) The NR will include:
 - a) the date, time, and number of the emergency order announcement,
 - b) the length of the fishing period,

- c) the opening and closing times and dates of the fishing period,
- d) the areas opening to fishing,
- e) the areas closing to fishing,
- f) the location of closed water adjustments (if any), and
- g) a list of any previous NR information that is still pertinent.
- The NR will be posted at the main entrance of the Kodiak ADF&G office at 351 Research Court. Copies of the NR will be available outside the main entrance, in the Kodiak ADF&G office during regular office hours (Monday through Friday, 8:00 AM to 4:30 PM), and posted at the Region IV commercial salmon fishery web site at http://www.cf.adfg.state.ak.us/region4/finfish/salmon/salmhom4.php.
- 3) The NR will be recorded on a 24-hour recorded message phone (486-4559).
- 4) The NR will be made available to local radio stations (KVOK 560 AM, KRXX 101.1 FM and KMXT 100.1 FM).
- 5) The Kodiak ADF&G management staff will monitor single side band radio channel 3.230 MHz (call sign WON 32) and Matrix satellite phone dispatch number 7410 during regular office hours, and will reply to public and industry inquiries when available.
- 6) The NR will be distributed to all registered processors by email, telephone, hand delivery, or through the ADF&G recorded message phone.
- 7) Copies of emergency orders, which detail specific regulation changes and justifications, will be available upon request.

NRs are generally very detailed and complicated. It is advised that tender operators and permit holders obtain a written copy or use a tape recorder to document the exact wording of each announcement as it is broadcast.

ADF&G Staff Contact Numbers

ADF&G Kodiak management staff is available to answer questions regarding commercial salmon fishery regulations, openings, closures, and harvests. Contact phone numbers and e-mail address are as follows:

General Information - 486-1830 **James Jackson:** 486-1808

Area Management Biologist After Hours: 907-942-2097

Matrix Dispatch - 7410 Todd Anderson: 486-1807

Assistant Area Management Biologist

After Hours: 701-214-7667

Geoff Spalinger: 486-1804

Record-a-Phone - 486-4559 Assistant Area Management Biologist

After Hours: 952-567-1420

Brad Fuerst: 486-1810

Email - Fishery Biologist

dfg.dcf.kodiaksalmon@alaska.gov After Hours: 907-539-9033

STATISTICAL AREAS

It is important that permit holders have the most recent statistical chart (January 2015).

USE OF NET PENS

Floating net pens may be used in KMA to hold live, commercially caught salmon prior to processing. However, fishermen that choose to use a net pen to hold live salmon must obtain a permit at the Kodiak ADF&G office (5 AAC 18.392). The permit will outline restrictions, conditions, and reporting requirements. It is the responsibility of the permit holder to obtain any additional licenses or permits that may be required. Any fishermen that wish to use a net pen should contact salmon management staff at the Kodiak Fish and Game office.

WASTE OF SALMON

Waste of salmon will not be tolerated and may result in fishing period closures (AS 16.05.831 and 5 AAC 93.310). Unless prohibited by law, salmon taken commercially may be used or sold as bait (5 AAC 93.350).

PERSONAL USE OF COMMERCIALLY TAKEN SALMON (HOME PACK)

Commercial fishermen may keep salmon legally taken in their commercial gear during open commercial fishing periods for their own use (home pack). However, the number of fish harvested and kept for home pack <u>must</u> be reported on a fish ticket. These fish may not be sold or bartered (5 AAC 39.010).

At the time of delivery, record the number of each species of salmon caght but not sold in the lower right hand corner of the fish ticket in the space designated for that purpose.

DIRECT MARKETING

Kodiak commercial salmon fishermen may market their own lawfully taken commercial catch (direct marketing). If fish are to be sold later, the commercial fishermen must be properly registered and licensed. There are several ways to legally market your own fish, but some require special registration and licensing. Registration and licensing ensures accurate reporting of harvests, which is essential for sound management of commercial fisheries.

Direct marketers are responsible for filing their own fish tickets with ADF&G and will be required to complete a Commercial Operators Annual Report. Direct marketers must also register with the ADF&G salmon management office in Kodiak.

FISH TRANSPORTERS

A fish transporter differs from a tender. A tender acts as the agent of a processor or buyer, and is the first point of sale of fish from the Commercial Fisheries Entry Commission (CFEC) permit holder to a processor or buyer. A fish transporter is an agent of the CFEC permit holder(s) and is authorized to take legally harvested fish from one or more commercial salmon fisherman to a buyer or buyers. A fisherman or group of fishermen may hire a fish transporter, who may then legally take their fish to the first point of sale.

A fish transporter must be in possession of a Fish Transporter Permit during the transport and sale of fish. The ADF&G Division of Commercial Fisheries in Juneau issues Fish Transporter Permits. All fish transporters who plan to transport salmon within KMA must also be registered with the ADF&G Kodiak commercial salmon fishery management staff. The transporting vessel used must be licensed as a commercial fishing vessel and all people working aboard the vessel must have crewmember licenses.

Fish transporters are required to report their activities to ADF&G and to fill out a fish ticket for all fish taken aboard their vessel. The commercial fisherman who caught the salmon is required to provide the fish transporter with fish ticket information such as the CFEC permit number, the area of harvest, catch dates, and catcher vessel ADF&G number, and must sign the fish ticket. The number of fish by species and the weight of the fish by species must be estimated and recorded on the fish ticket. Final weights and fish counts will be verified upon delivery of the fish to the buyer or processor. The buyer or processor submits the finalized fish ticket to ADF&G. Additional information and Fish Transporter Permit applications are available from the ADF&G Kodiak staff

FISH TICKETS/HARVEST REPORTS

It is the legal responsibility of commercial fishermen, tenders or transporters, and processors and buyers to ensure that all information on a fish ticket is complete and correct. Prior to completing and signing fish tickets, permit holders, tender operators, and/or processing personnel should make sure that the proper statistical area with the correct harvest information has been entered and the fish ticket is complete, legible, and accurate. Fishermen are reminded that 5AAC 39.130 (c)(9) requires completed fish tickets to include the CFEC permit number of the operator of the unit of gear with which the fish were taken imprinted on the fish ticket from the valid permit card.

PROCESSORS/TENDERS

Management of the KMA commercial salmon fisheries requires timely and accurate harvest reporting. Without accurate information, a more conservative harvest strategy will be adopted and less fishing time will be allowed. Processors and buyers are required to accurately report catches daily to ADF&G (5 AAC 39.130). In order to process the harvest information and use it for management decisions, catch reports must include the estimated <u>number</u> of salmon harvested by species, for each gear type, from each major catch area (by statistical area, or by geographic area such as a bay, cape, or headland). ADF&G management staff will contact processors to arrange the daily reporting times and format. Daily reports can be made verbally, by fax, or by email. Email is the preferred method. Processors should obtain correct, up to date, information from tender operators prior to providing daily reports to ADF&G.

Each day, tender operators must provide their processing companies with an accurate count of deliveries and number of salmon delivered, by species and by catch area. Alternately, tender operators may report the total number of pounds and the average weight by species by catch area.

Statistical area numbers are used to record harvest location(s) on fish tickets. Tender operators should ensure that the location of the catch, rather than the location of the tender pick-up, is recorded on the fish ticket.

The correct harvest location and number of fish harvested by species must be recorded on each fish ticket. This information is extremely important in evaluating inseason harvests, stock contribution, and effort distribution. In order to provide maximum allowable fishing time, especially in areas such as the Cape Igvak Section and North Shelikof Strait, it is imperative that the correct statistical areas and numbers of fish by species are reported on the fish ticket at the time of delivery.

PURSE SEINE FISHERMEN

Purse seine fishermen should be certain that their fish tickets show the number of fish of each species or the total weight and average by species for each delivery. Purse seine permit holders must, at a minimum, provide estimates of harvest by statistical area to tender operators. For example: "1/3 of my sockeye were from Cape Alitak (257-20) and 2/3 were from Outer Ayakulik (256-20). The rest of my fish were 1/2 and 1/2 from each of those two areas." The location of the tender where the fish were delivered should not be used as the harvest location.

SET GILLNET FISHERMEN

Set gillnet fishermen should make sure their fish tickets show the number of fish of each species or the total and average weight by species for each delivery. Because of the fixed nature of set gillnet gear, each permit holder's reporting area (statistical area) is usually consistent between landings. In the event that a gillnet is moved into a new statistical area, fishermen should make sure that the tender operator is provided with that information.

REFERENCES CITED

Sagalkin, N. H., B. Foster, M. B. Loewen, and J. W. Erickson. 2013. Review of salmon escapement goals in the Kodiak Mangement Area, 2013. Alaska Department of Fish and Game, Fishery Manuscript Series No. 13-11, Anchorage.

TABLES

Table 1.–Alaska Board of Fisheries approved fishery management plans for the Kodiak Management Area, 2015.

M	Year	Management Units	Dates in
Management Plan Cape Igvak Salmon Management	Initiated 1978	Affected Cons Levels Section	Effect 6/1 - 7/25
Plan (5 AAC 18.360)	19/8	Cape Igvak Section Wide Bay Section	6/1 - //25
Alitak Bay District Salmon Management Plan (5 AAC 18.361)	1987	Alitak Bay District	6/1 - 10/31
Westside Kodiak Management Plan (5 AAC 18.362)	1990	NW Kodiak District SW Kodiak District SW Afognak Section	6/1 - 10/31
North Shelikof Strait Sockeye Salmon Management Plan (5 AAC 18.363)	1990	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 Management Plan (5 AAC 18.364)	1990	Special Harvest Area in the Central Section near Port Lions	7/15 - 10/31
Eastside Afognak Management Plan (5 AAC 18.365)	1993	Southeast Afognak Section Raspberry Strait Section Inner and Outer Kitoi Bay sections Duck Bay Section Izhut Bay Section	6/1 - 10/31
Spiridon Lake Sockeye Salmon Management Plan (5 AAC 18.366)	1993	Special Harvest Area in Spiridon Bay Section	6/1 - 10/31
Eastside Kodiak Salmon Management Plan (5 AAC 18.367)	1995	Eastside Kodiak District NE Kodiak District	6/14 - 10/31
North Afognak / Shuyak Island Salmon Management Plan (5 AAC 18.368)	1995	NE Afognak Section Perenosa Bay Section Pauls Bay Section Shuyak Island Section NW Afognak Section	6/1 - 10/31
Mainland District Salmon Management Plan (5 AAC 18.369)	1999	Mainland District	6/14 – 10/31

Table 2.– Actual versus projected 2014 KMA salmon harvest, and 2015 projections.

		Chinook	Sockeye	Coho	Pink	Chum	Total
Projected	Harvest 2014 a	15,000	2,22,228	270,379	14,585,758	777,261	17,875,626
Actual	Harvest 2014 a	8,382	3,266,317	474,265	10,677,933	336,590	14,789,078
	Harvest 2015	15,000	3,494,116	330,889	14,298,094	707,416	18,960,515
							2015
		_		14 Harvest			Harvest
FISHERY			Projection ^b		Actual c		Projection ^b
Early Sock	eye Salmon Fisheries (6/1-7	7/15)					
	Kitoi Bay Hatchery d		55,440		32,800		52,510
	Cape Igvak ^e		362,615		0		145,454
	Karluk ^f		158,361		447,154		176,867
	Ayakulik ^g		211,654		247,783		65,827
	Alitak District		58,684		186,844		257,657
	Minor Enhancement h		45,700		14,633		17,700
	Spiridon i		259,619		121,057		168,837
	KMA						
	Undetermined/Minor J	<u>-</u>	608,588	<u>-</u>	199,921	_	723,045
	Subtotal		1,272,476		1,250,192		1,607,897
Late Socke	eye Salmon Fisheries (7/16-	10/31)					
	Kitoi Bay Hatchery d		23,760		60,449		35,006
	Cape Igvak ^e		89,659		0		89,899
	Karluk ^f		306,614		1,373,691		824,400
	Ayakulik ^g		90,709		106,979		35,446
	Alitak District		59,278		67,756		106,673
	Spiridon i		111,265		148,861		127,369
	KMA undetermined j	_	260,824	<u>.</u>	258,389	_	667,426
	Subtotal		949,752		2,016,125		1,886,219
	Total sockeye		2,222,228		3,266,317		3,494,116
Pink Salmo	on Fisheries		2544666		5 550 500		7.265.000
	Kitoi Bay Hatchery d		2,544,666		5,779,592		7,365,000
	Afognak Wild ^k		2,763,573		1,400,967		677,363
	Westside Kodiak ¹		6,839,158		1,953,517		2,531,966
	Alitak District	m	984,085		661,859		1,239,637
	Eastside/Northend Kodiak		932,961		727,157		2,279,601
	Mainland District	_	521,315	-	154,841	=	204,526
	Subtotal		14,585,758		10,677,933		14,298,094
Chum Saln	non Fisheries						
	Kitoi Bay Hatchery d		125,977		45,589		171,000
	Afognak (Wild) k		38,684		35,146		35,618
	Westside Kodiak ¹		204,249		115,318		174,818
	Alitak District		39,987		13,610		27,625
	Eastside/Northend Kodiak	. m	255,530		101,753		204,857
	Mainland District	<u>-</u>	112,834	·-	25,174	_	93,497
	Subtotal		777,261		336,590		707,416
<u> </u>			-continued-			<u> </u>	

Table 2.–Page 2 of 2.

	2014 H	2015 Harvest		
FISHERY	Projection ^b	Actual ^c	Projection ^b	
Coho Salmon Fisheries				
Kitoi Bay Hatchery d	113,321	231,987	153,000	
Afognak ^k	19,370	36,869	22,930	
Westside Kodiak ¹	68,634	146,973	89,215	
Alitak District	7,101	4,269	6,388	
Eastside/Northend Kodiak ^m Mainland	51,661	39,621	48,086	
District	10,292	14,546	11,270	
Subtotal	270,379	474,265	330,889	
Grand Total ⁿ	17,875,626	14,789,078	18,960,515	

Note: Harvest projections presented in this table represent formal forecasts as well as projections based on past fishery performance.

- ^c Actual harvest is the number taken in a particular geographic area, not the catch assigned to an individual salmon stock.
- From the Duck Bay, Izhut Bay, and Inner and Outer Kitoi Bay sections only (Excludes 425,000 pink salmon and 40,000 chum salmon collected by KRAA for brood stock).
- ^e From the Cape Igvak Section. Early run is from the beginning of season through June 26. Late run is from July 8 through 25
- 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 the Karluk sockeye salmon harvest
- 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 Foul Bay, Waterfall Bay, and Settler Cove Special Harvest areas.
- ⁱ From the Spiridon Lake Special Harvest Area (Telrod Cove), plus an estimate of Spiridon-bound sockeye taken in adjacent areas
- ^j From minor systems at Inner and Outer Ugak Bay (Saltery), Buskin River, Perenosa Bay (Portage), Northwest Afognak (Thorsheim & Long Lagoon), Big River (Swikshak), and Outer Kukak Bay (Kaflia & Kuliuk) sections.
- ^k From the Afognak District except for the Duck, Izhut, and Inner and Outer Kitoi Bay sections.
- ¹ From the Southwest Kodiak District (256- and 255-) and the Northwest Kodiak District (254- and 253-) except for the North Cape, Anton Larson, Sharatin, and Kizhuyak sections, and part of the Central Section (259-35 to 259-39).
- From the Eastside Kodiak District, the Northeast Kodiak District, and the North Cape, Anton Larson, Sharatin, and Kizhuyak sections, plus part of the Central Section.
- Includes the projected 2014 harvest of 15,000 Chinook salmon, the actual 2014 harvest of 8,382 Chinook salmon and a projected 2015 harvest of 15,000 Chinook salmon.

^a In number of salmon. Does not include subsistence or sport caught salmon.

For the 2015 KMA wild stock pink salmon forecast, a generalized Ricker model was fit to the odd-year KMA returns from 1997 to 2013 utilizing KMA pink salmon indexed escapement for the spawner index. Three additional terms were included in this generalized Ricker model: 1) March-April average air temperature), 2) May total precipitation, 3) Early April average ocean temperature.

FIGURES

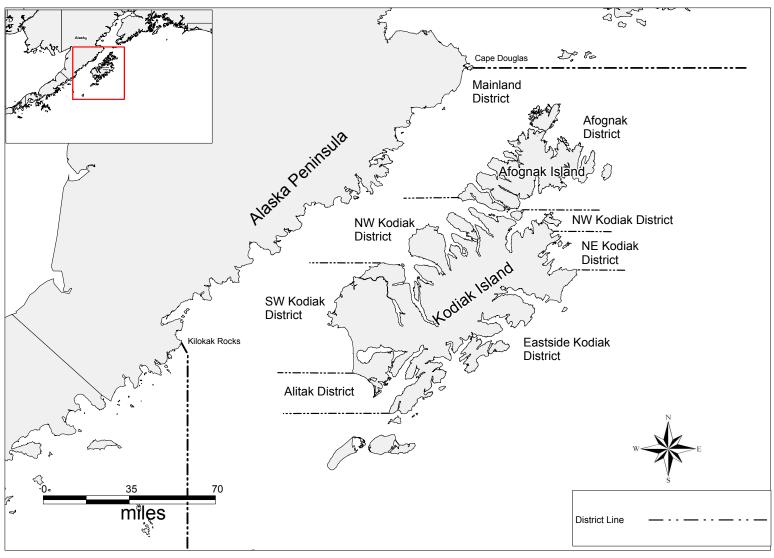


Figure 1.-Map of the commercial salmon fishing districts in the Kodiak Management Area identifying commercial salmon fishing districts.

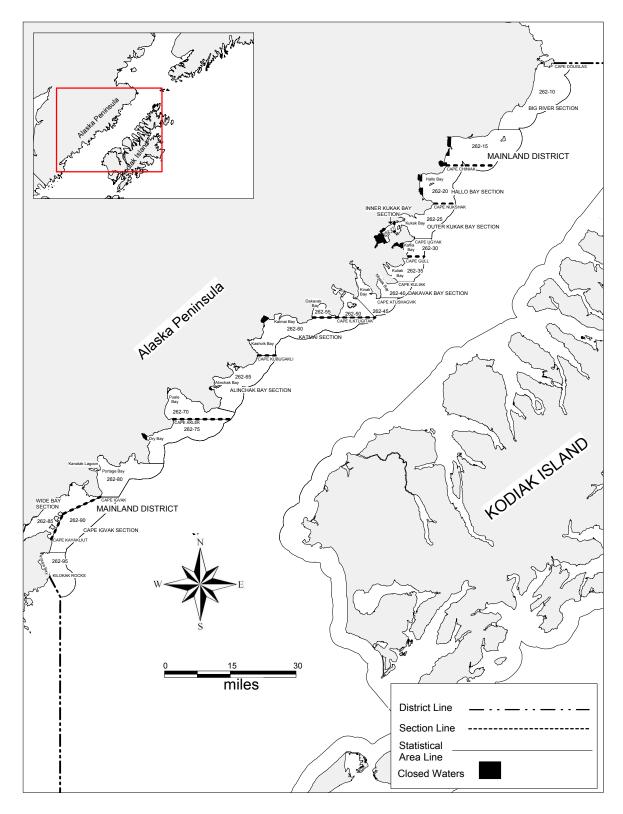


Figure 2.—Map of the Mainland District identifying commercial salmon fishing sections and statistical areas.

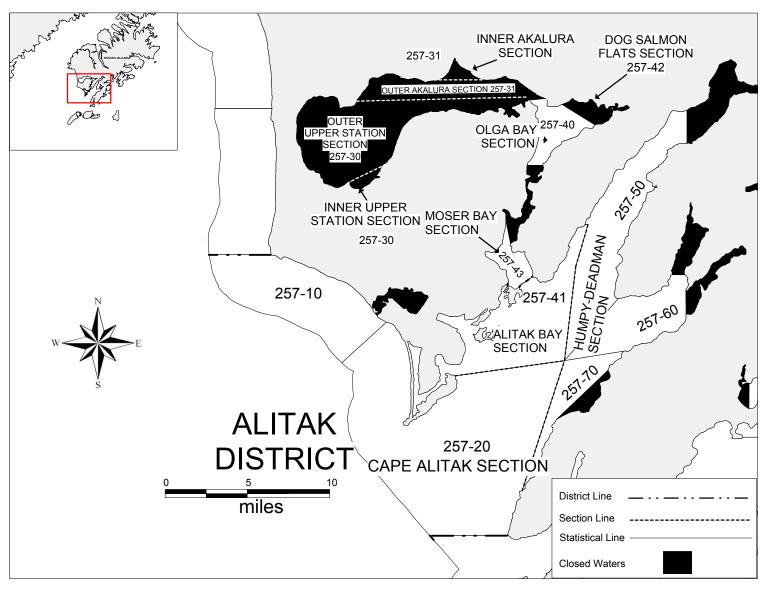


Figure 3.–Map of the Alitak District identifying commercial salmon fishing sections and statistical areas.

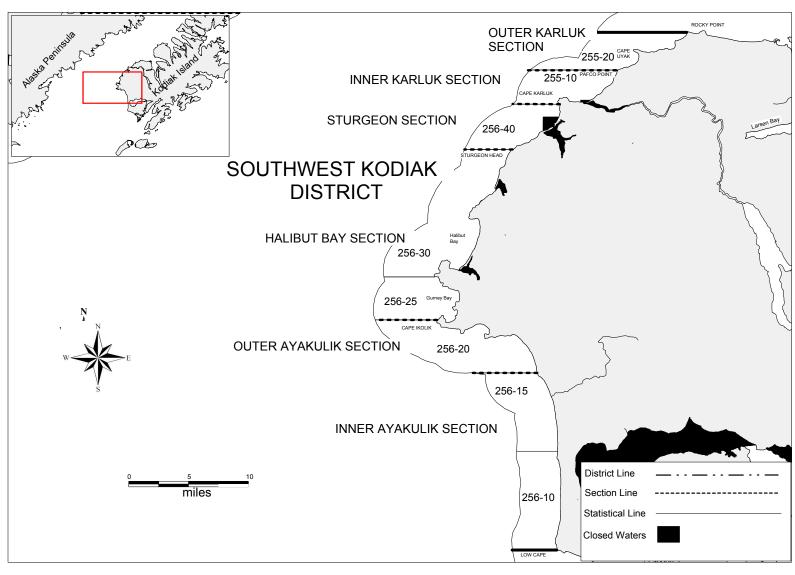


Figure 4.—Map of the Southwest Kodiak District identifying commercial salmon fishing sections and statistical areas.

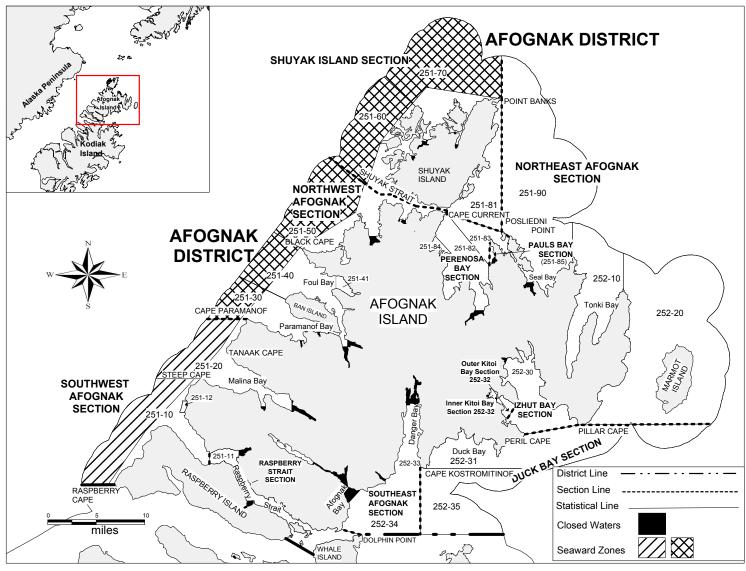


Figure 5.—Map of the Afognak District identifying commercial salmon fishing sections and statistical areas.

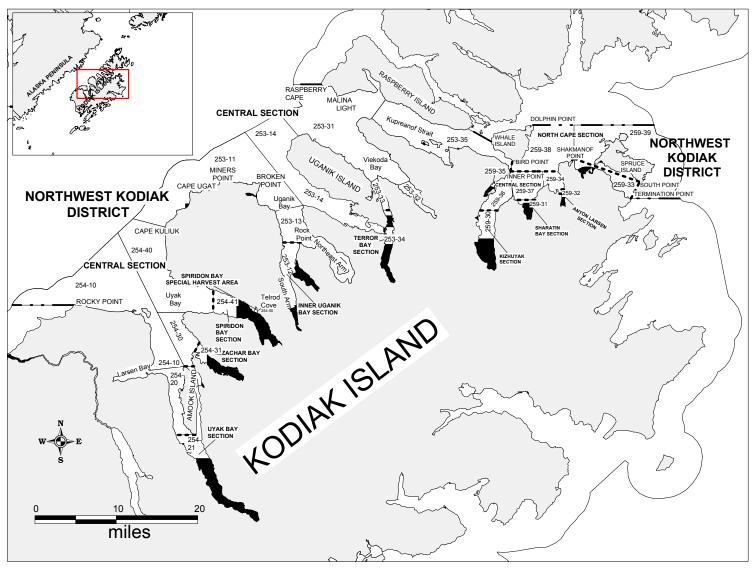


Figure 6.—Map of the Northwest Kodiak District identifying commercial salmon fishing sections and statistical areas.

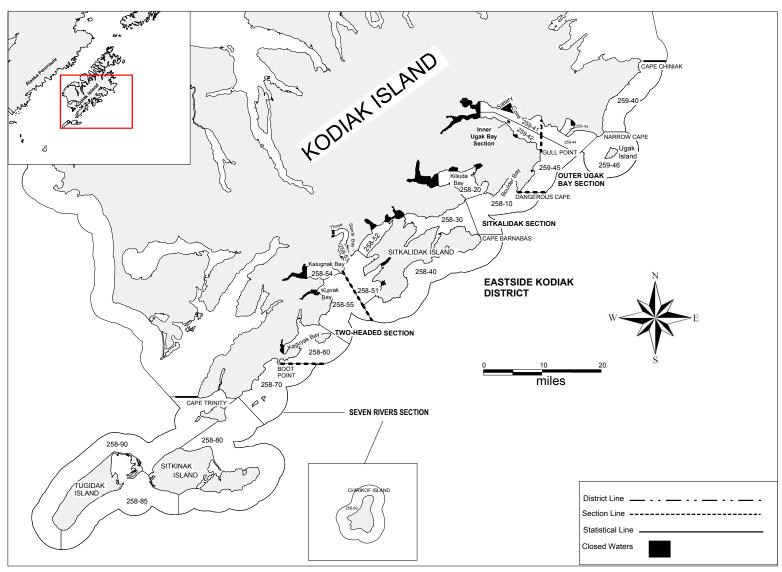


Figure 7.–Map of the Eastside Kodiak District identifying commercial salmon fishing sections and statistical areas.

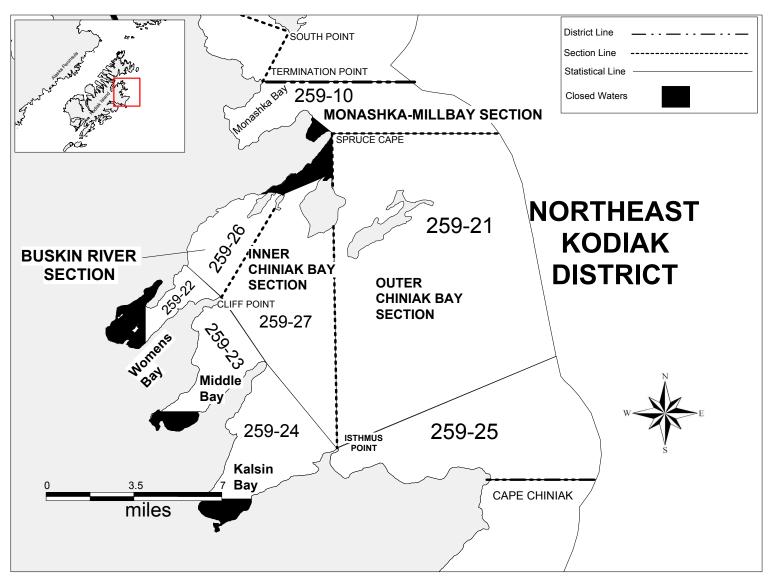


Figure 8.-Map of the Northeast Kodiak District identifying commercial salmon fishing sections and statistical areas.

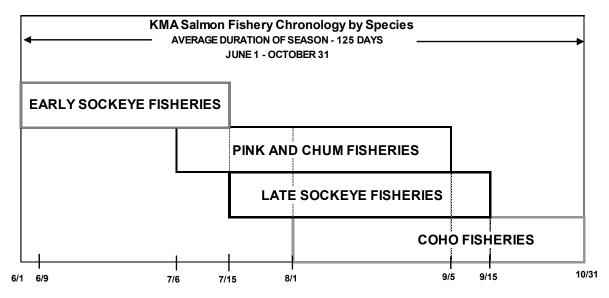
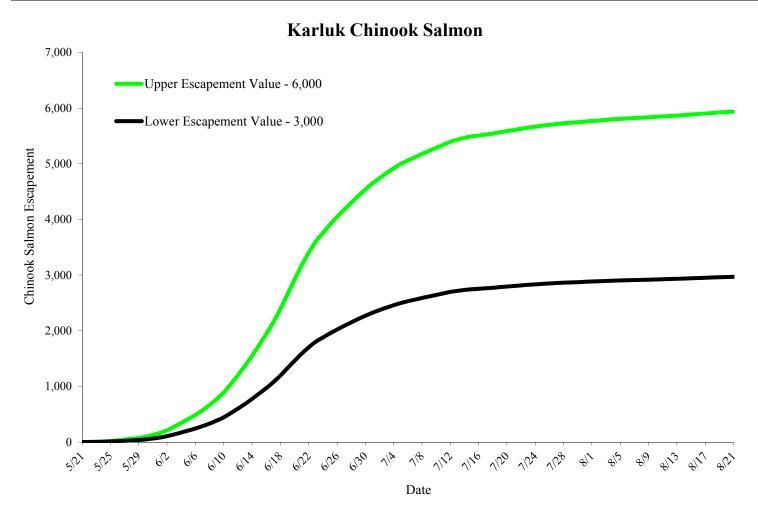


Figure 9.–Commercial salmon fishery chronology by species, for the Kodiak Management Area.

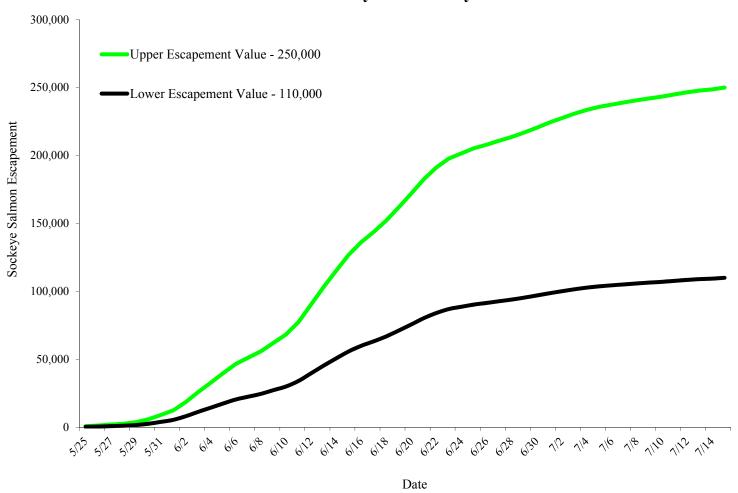
APPENDIX A. CHARTS OF AVERAGE RUN TIMING RELATIVE TO CURRENT ESCAPEMENT GOALS FOR SELECT STREAMS AND SPECIES

Appendix A1.—Average run timing relative to lower and upper escapement values for Chinook salmon into the Karluk system.

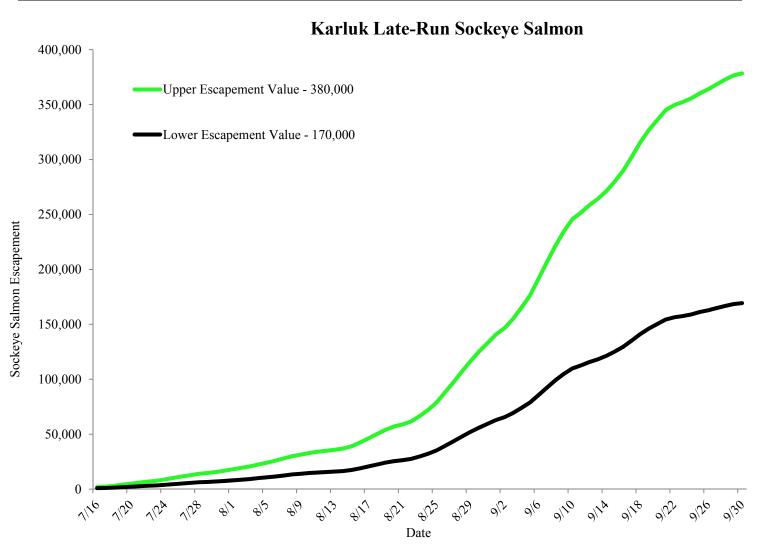


Appendix A2.—Average run timing relative to lower and upper escapement values for early-run sockeye salmon into the Karluk system.

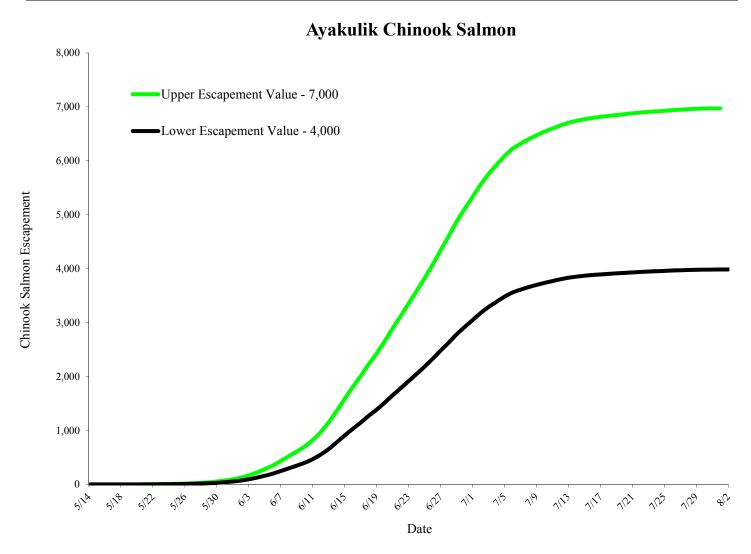
Karluk Early-Run Sockeye Salmon



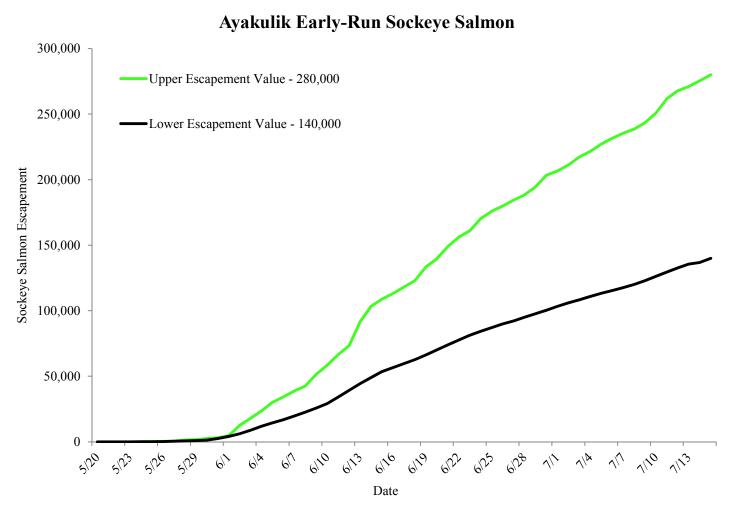
Appendix A3.—Average run timing relative to lower and upper escapement goals for late-run sockeye salmon into the Karluk system.



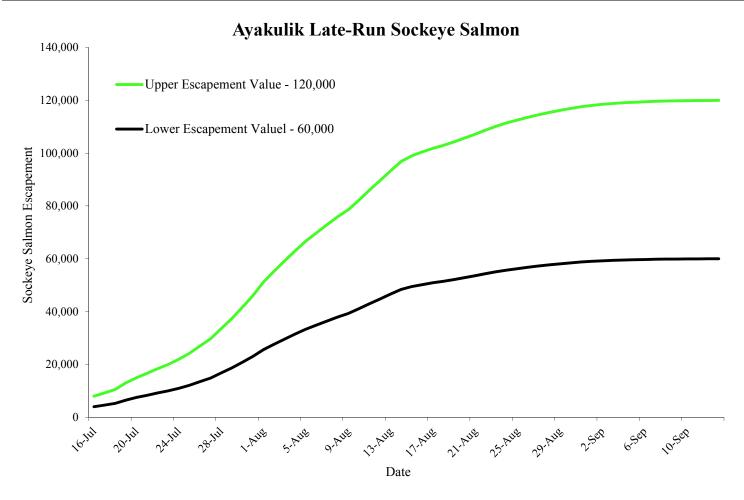
Appendix A4.-Average run timing relative to lower and upper escapement values for Chinook salmon into the Ayakulik system.



Appendix A5.—Average run timing relative to lower and upper escapement values for early-run sockeye salmon into the Ayakulik system.

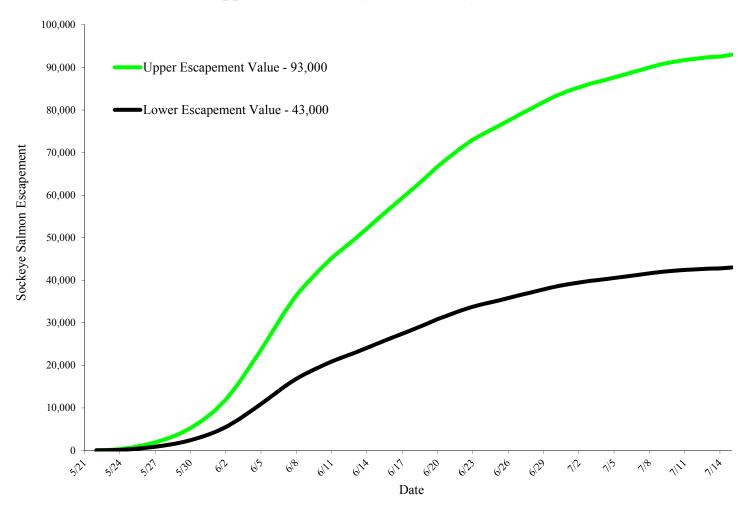


Appendix A6.—Average run timing relative to lower and upper escapement values for late-run sockeye salmon into the Ayakulik system.

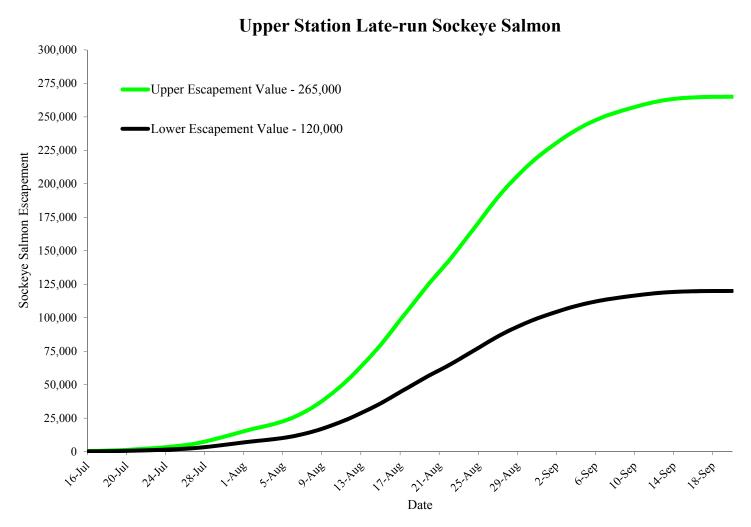


Appendix A7.—Average run timing relative to optimum and upper escapement values for early-run sockeye salmon into the Upper Station system.

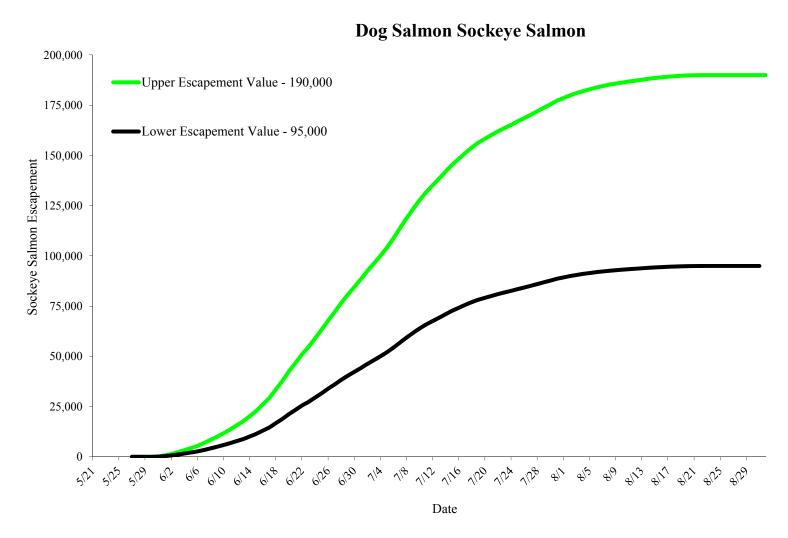
Upper Station Ealry-Run Sockeye Salmon



Appendix A8.—Average run timing relative to lower and upper escapement values for late-run sockeye salmon into the Upper Station system.

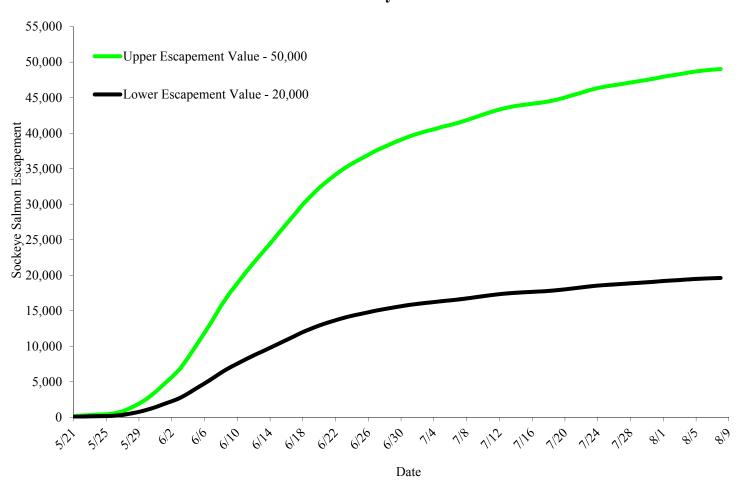


Appendix A9.—Average run timing relative to lower and upper escapement values for sockeye salmon into the Frazer system through the Dog Salmon River weir.

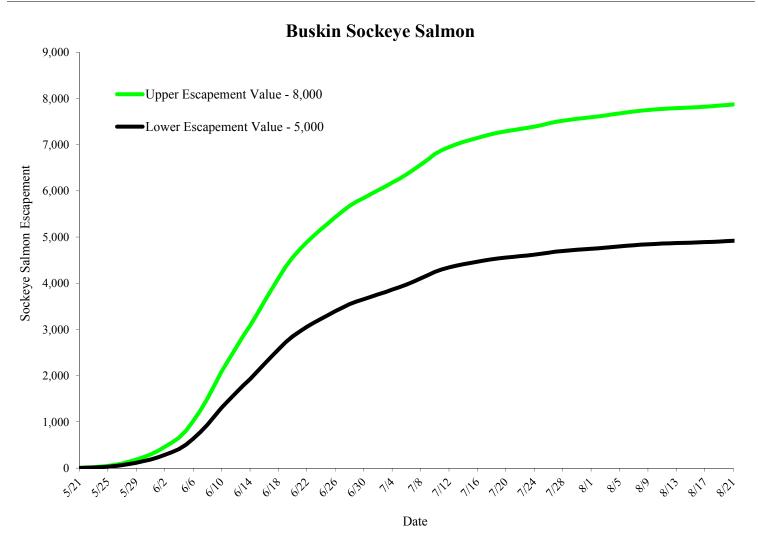


Appendix A10.-Average run timing relative to lower and upper escapement values for sockeye salmon into the Litnik system.

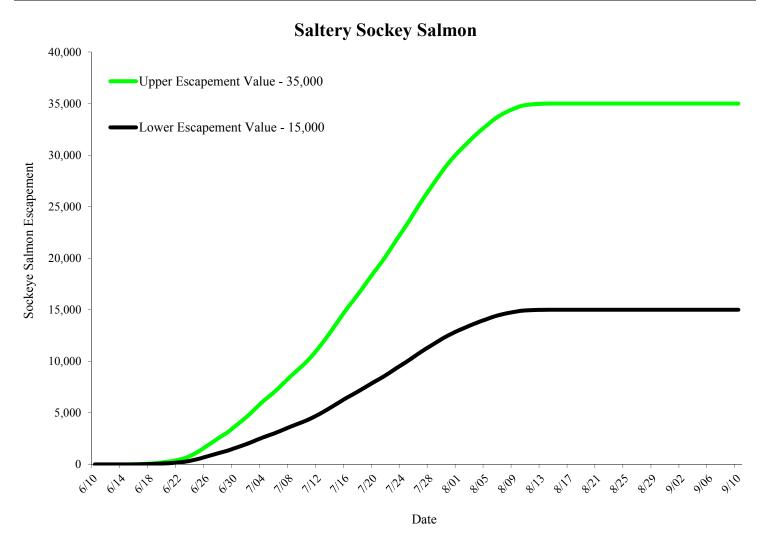
Litnik Sockeye Salmon



Appendix A11.-Average run timing relative to lower and upper escapement values for sockeye salmon into the Buskin system.



Appendix A12.—Average run timing relative to lower and upper escapement values for sockeye salmon into the Saltery system.



APPENDIX B. SALMON MANAGEMENT BASIS

Appendix B1.-The Westside Kodiak fishery salmon management basis.

		June		July	August			September			
Afognak District	Southwest Afognak Section	June 1 through June 15, based on sockeye salmon returning to Karluk, Ayakulik, and Olga Bay systems. There will be at least one 33-hour commercial test fishing period.	June 16 through July ton early-run sockeye returning to the Karluk	salmon	returning to the	th August 15, based on pink salmon the major systems in the Southwest ion and the Northwest Kodiak District.		August 16 through August 24, based on pink salmon returning to both the SW Afognak Section and NW Kodiak District and late-run sockeye salmon returning to the Karluk system.	thr Septe based of sockey returni	gust 25 rough ember 5, on late-run ye salmon ing to the k system.	September 5 through the end of the season, based on coho salmon returning to the Southwest Afognak Section.
odiak District	Central and North Cape sections	June 1 through June 15, based on sockeye salmon returning to Karuk, Ayakulik, and Olga Bay systems. There will be at least two 33-hour commercial test fishing periods.	on early-run sockeye						thr Septe based of sockey returni	gust 25 rough ember 5, on late-run ye salmon ing to the c system.	After September 5, based on late run sockeye salmon returning to the Karluk system and coho salmon returning to the Northwest Kodiak District.
The Northwest Kodiak District	Anton Larsen, Sheratin, Kizhuyak, Terror, Inner Uganik, Spiridon, Zachar, Inner Uyak sections	June 1 through June 15, based on local sockeye and early-run chum salmon returning to the major systems in each section. There will be at least two 33-hour commercial salmon fishing periods at the same time as those in the Central and North Cape sections.	on local sockeye and early-run chum salmon returning to the chum salmon re			July 31, based on pink, and early-run turning to the major each section.	local pink and late-run chum salmon			gust 25 rough ember 5, d on local late-run and coho n returning e major n systems h section.	After September 5, based on coho salmon returning to the major systems in each section.
ŭ	Inner and Outer Karluk sections	June 1 through July 15, based on Karluk early run sockeye, however fishing periods in the Inner Karluk Section may open only if the department determines that the desired early-run escapement goal will be exceeded.					July 16 through August 24 in even years, based on late-run sockeye and pink salmon returning to the Karluk system.			rough ember 5, on late-run /e salmon ing to the c system just 25	After September 5, based on late-run sockeye and coho salmon returning to the Karluk system.
Southwest Kodiak District	Sturgeon Bay Section	June 1 through June 2: closed.		lmon retur ems, and	ning to Ayakulik early-run chum	Ayakuliik July 16 through August 24 in even years, based on late- n chum sockeye andpink salmon returning to the Karluk System			thr Septe based of sockey returni Karluk	rough ember 5, on late-run ye salmon ing to the c system.	After September 5, based on coho salmon returning to local systems.
The Southwe	Halibut Bay Section	June 1 through June 2: closed.		lmon retur ems, and	ning to Ayakulik early-run chum	to Ayakulik dy-run chum		August 1 through August 24 in even years, based on late-run sockeye returning to the Karluk system and pink salmon returning to the Ayakulik system.		rough rough ember 5, on late-run ye salmon ing to the c system.	After September 5, based on coho salmon returning to local systems.
	Inner and Outer Ayakulik sections	June 1 through July 15, ba	ased on early-run socke Ayakulik system.	eye salmo	n returning to the			rs, based on late-run the Ayakulik system.	After Au		ased on coho salmon returning to Ayakulik system.

Appendix B2.-The Alitak fishery salmon management basis.

		June		July August			ugust	September		
	Cape Alitak Section	June 1 through July 15 , based on Fraz Station systems sockeye salm		July 16 through August 9, in even years, based on sockeye salmon returning to either the Frazer or early Upper Station systems. August 10 through August 25, in even years, based on either pink salmon returning to Frazer or sockeye salmon returning to Upper Station.			From August 26 through the end of the season, based on the coho and sockeye salmon returns to all Olga Bay systems.			
.	The Alitak Bay, Moser Bay, and Olga Bay sections	June 1 through July 15, based on Fraz Station systems sockeye salm	July 16 through August 9, in even years, based on sockeye salmon returning to either the Frazer or		August 10 through August 25, in even years, based on either pink salmon returning to Frazer or sockeye salmon returning to Upper Station.		From August 26 through the end of the season, based on the coho and sockeye salmon returns to all Olga Bay systems.			
	Humpy- Deadman Section	June 1 through July 15, at the same ting fishing time with the Cape Alita		After July 15, based on the strength of salmon returns to systems located within the Humpy-Deadma Section.						
The Alitak District	Dog Salmon Flats Section	June 1 through August 20, based of the Dog Salmon Flats Section may be				nrough the end of the season, based on urns to Dog Salmon and Horse Marine systems.				
Lhe	Section	These openings may not jeopardize achievement of minimum escapement goals for the other salmon species.								
The	Inner and Outer Akalra sections	June 1 through August 20, I	based on sockeye	salmon returns to the Ak	alura syster	n.	August 21 through August 26, based on coho and sockeye salmon returns to Akalura.	After August 26, based on coho salmon returns to the Akalura system.		
				fishing only when the deplevement of minimum es				oals will be exceeded. These openings pecies.		
	Inner and Outer Upper			d late run sockeye salmon returning to Upper Station.				After August 26, based on coho and late sockeye salmon returns to the Upper Station system.		
	Station sections			ened to fishing only when achievement of minimu				ement goals will be exceeded. These on species.		

Appendix B3.–Eastside Kodiak fishery salmon management basis.

				E	astside Kodiak	Salmon Managem	nent Basis		
	June			Jul	у	August		September	
ak District	Outer Chiniak, Inner Chiniak, and the Monaska Mill Bay sections	June 1 through July 5, closed.				August 24, based on the Inner Chiniak	August 25 through Sept 5, based on the abundance of local pink and coho salmon.	After Sept 5, based on the abundance of local coho salmon.	
Northeast Kodiak District	Buskin River Section	June 1 through July 5, closed.			July 6 through July 15, based on the abundance of local pink salmon and Buskin Lake sockeye salmon.		ust 24, based on the abundance of ink and chum salmon	August 25 through Sept 5, based on the abundance of local pink and coho salmon.	After Sept 5, based on the abundance of local coho salmon.
ak District	Inner Ugak Section	inner ugak June i tilrough sockeye sockeye		July 6 through July 31, based on the abundance of local pink, chum, and Saltery Lake sockeye salmon.		August 1 through August 24, based on the abundance of local pin and chum salmon.	August 25 through Sept 5, based on the abundance of local pink and coho salmon.	After Sept 5, based on the abundance of local coho salmon.	
Eastside Kodiak District	Outer Ugak Section	June 1 through June 13, closed.	June 14- June 21, based on the abundanc e of local and mixed sockeye salmon.	June 22 through July 5, based on sockeye salmon bound to Pasagshak River.	July 6 through A	august 24, based on the pink and chum	ne abundance of local and mixed n salmon.	August 25 through Sept 5, based on the abundance of local pink, chum and coho salmon.	After Sept 5, based on the abundance of late-run chum and coho salmon.
	Seven Rivers, Two Headed, and Sitkalidak sections	June 1 through June 13, closed.	based on t of local and sockeyes may not be	nrough July 5, he abundance I mixed Kodiak almon. There more that two ning periods.	July 6 through August 24, based on the abundance of local and mixed pink and chum salmon. through August 24, based on the abundance of local and mixed abundance			August 25 through Sept 5, based on the abundance of local pink, chum and coho salmon.	After Sept 5, based on the abundance of local coho salmon.

Appendix B4.–Eastside Afognak fishery salmon management basis.

				Eastside Kodiak	Salmon Managem	nent Basis		
		Jı	ine	Jul	ly	August		September
iak District	Outer Chiniak, Inner Chiniak, and the Monaska Mill Bay sections	June 1 thro	ugh July 5, closed.		July 6 through August 24, based on the abundance of local and mixed pink (and in the Inner Chiniak Section chum) salmon.			After Sept 5, based on the abundance of local coho salmon.
Northeast Kodiak District	Buskin River Section	June 1 thro	ugh July 5, closed.	July 6 through July 15, based on the abundance of local pink salmon and Buskin Lake sockeye salmon.	local ni	ust 24, based on the abundance of nk and chum salmon	August 25 through Sept 5, based on the abundance of local pink and coho salmon.	After Sept 5, based on the abundance of local coho salmon.
ak District	Inner Ugak Section June 1 through June 13, closed. June 1 through Sock salm There not to more it two 3; fishii		June 14- June 21, based on the abundanc e of local and mixed sockeye salmon. There may not be more than two 33-hr fishing periods.	July 5, July 6 through J abundance of lo sund Saltery Lake	uly 31, based on the ocal pink, chum, and sockeye salmon.	August 1 through August 24, based on the abundance of local pin and chum salmon.	August 25 through Sept 5, based on the abundance of local pink and coho salmon.	After Sept 5, based on the abundance of local coho salmon.
Eastside Kodiak District	Outer Ugak Section	June 1 through June 13, closed.	June 14- June 21, based on the abundanc e of local and mixed sockeye salmon.	July 6 through A	August 24, based on the pink and chun	ne abundance of local and mixed n salmon.	August 25 through Sept 5, based on the abundance of local pink, chum and coho salmon.	After Sept 5, based on the abundance of late-run chum and coho salmon.
	Seven Rivers, Two Headed, and Sitkalidak sections	June 1 through June 13, closed.	June 14 through July based on the abunda of local and mixed Ko sockeyesalmon. The may not be more that 33-hr fishing period	nce diak July 6 through A ere two	July 6 through August 24, based on the abundance of local and mixed pink and chum salmon.			After Sept 5, based on the abundance of local coho salmon.

Appendix B5.–North Afognak/Shuyak fishery salmon management basis.

	North Afognak/Shuyak Salmon Management Basis								
		June	July		August	<u>.</u>	September		
	Northeast Afognak Section	June 1 through July 5, closed.	July 6 through Aug	July 6 through August 24, based the abundace of local and mixed pink salmon.		August 25 through September 5, based or local pink and coho salmon.	After September 5, based on the abundance of local coho salmon.		
istrict	Perenosa Bay Section	June 1 through July 5, based on sockeye salmon returning to Pauls Bay and Portage Lake. Additional fishing time to harvest sockeye salmon bound to Waterfall Lake will occur in the Waterfall Bay Special Harvest Area only	and sockeye the abund		rough August 20, based on dance of local and mixed pink salmon.	August 21 through September 5, based on the abundance of local pink and coho salmon.	After September 5, based on the abundance of local coho salmon.		
Afognak District	Pauls Bay Section	June 1 through July 5, based on sockeye salmon returning to Pauls Bay.	July 6 through Augus on the abundance o mixed pink salmon a salmon bound for F	f local and nd sockeye	After August 1, based on the abundance of Pauls Bay coho salm				
	Northwest Afognak Section	June 1 through July 5, base on sockeye salme bound to Thorsheim and Long Lagoon. Ther may not be more tha two 33-hour fishing periods. Additional fishing time to harvest sockeye salmon bound for Hidden Lake will occur in Fo	July 6 through Aug	ust 24, base mixed pin	ed the abundance of local and lk salmon.	-	After August 24, based on the abundance of local coho salmon.		
	Shuyak Isalnd Section	June 1 through July 6, closed.	July 6 through Augus on the abundance o mixed pink sal	f local and	After August 1, based	on the abundar	ne abundance of local coho salmon.		

		Ma	inland District Salmon Ma	anagement Basis					
		June	July	Aug			September		
	Big River	June 1 through July 5, based on sockey salmon returning to Swikshak River. The	re and ch	based on local and mix um salmon.	ed pink	After August 20, based on the return of coho salmon to streams located within the			
	Section	may not be more than two 33-hr fishing periods.	July 6 through July 25, weekly fishing periods may not exceed 57 hours.	weekly fishing periods			Big River Section.		
	Hallo Bay			based on local and mix um salmon.	ed pink	After August 20, based on the return of coho salmon to streams located within the Hallo Bay Section.			
	Section	June 1 through July 5, closed.	July 6 through July 25, weekly fishing periods may not exceed 57 hours.						
	Outer	June 1 through July 5, based on sockey salmon returning to Kaflia Lakes. There	e local and mixed sockeye, p		After Au	ıgust 15	, based on late-run chum and coho		
	Kukak Section	may not be more than two 33-hr fishing periods.	July 6 through July 25, weekly fishing periods may not exceed 57 hours.		salmon	n to streams located in Outer Kukak Sec			
	Inner		local and mixed sockeye, p				August 15, based on late-run chum and coho n to streams located in Inner Kukak Section.		
istrict	Kukak Section	June 1 through July 5, closed.	weekly fishing periods						
Vainland District	Dakavak			July 6 through August 25, based on local and mixed pink a chum salmon.			After August 25, based on late-run		
Main	Bay Section	June 1 through July 5, closed.	July 6 through July 25, weekly fishing periods may not exceed 57 hours.				oink and coho salmon returning to reams in the Dakavak Bay Section.		
	The Katmai		July 6 through August 25, ch	based on local and mix um salmon.	Af	After August 25, based on local late			
	and Alinchak Bay sections	June 1 through July 5, closed.	July 6 through July 25, weekly fining periods may not exceed 57 hours.				n pink and coho salmon retrning to treams in the Katmai and Alinchak Bay sections.		
	The Wide Bay Section	June 1 through July 2	5, closed.	July 26 through August 25, bacclosed. on local and mixed pink and chesalmon.					
	The Cape Igvak Section	June 1 through July 25, based on socke River. In years when a harvestable surp goals for the first and second runs of C salmon is expected to be more than 6 determines the runs are as strong as e manage the fishery in such a manner wh salmon taken in the Cape Igvak Section possible 15 percent of the total Chig	lus beyond the escapement nignik river systems sockeye 00,000 and the department kpected, the department will ereby the number of sockeye on will approach as near as	July 26 through Augu on local and mixed pi salmon.		um pin	After August 25, based on late-run alk and coho salmon returning to the ape Igvak and Wide Bay sections.		

APPENDIX C.	NEWS	RELEASE	INSTRU	CTIONS
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USER INSTRUCTIONS FOR NEW DIVISION OF COMMERCIAL FISHERIES FISHERY ANNOUNCEMENTS NEWS RELEASE SYSTEM

May 23, 2011



On May 23, 2011, a new system for publishing news releases announcing commercial fishery openings, closings, fishing areas, times, etc. became available on the Alaska Department of Fish and Game website. This system also publishes non-regulatory fishery updates that convey information about specific fisheries, and allows users to find announcements about subsistence fishing and those personal use fisheries managed by the Division of Commercial Fisheries.

The new system replaces several older systems used by the division to publish fishing announcements and fishery updates to the web and allows a single entry portal for state-wide searching and the creation of email subscriptions.

As of May 31st, 2011, all news releases are now issued through this single system. The public may now subscribe to electronic notification via email for specific fisheries that may be of interest. All fishery news releases and announcements from that date forward will appear in the system as they are issued. If the public has subscribed to any news those news releases are delivered to the user's email inbox as they are issued.

This system can be located on the Alaska Department of Fish and Game website; a visitor to the site should look for the "News and Events" icon which can be found by clicking on the "Home" or "Fishing" menus at the top of any webpage on the site. A "News and Events" icon is located on these pages and clicking on this icon takes the user to the "News and Events" page. By clicking "Regulation Announcements, News Releases, Emergency Orders" and then the "Commercial Fishing" icon, the user will bring up the application for finding news releases, emergency orders, and fishery updates. The user can also go directly to this application by copying the following link into their browser. It might be a good idea to bookmark this link for ease of returning to the site for subsequent visits.

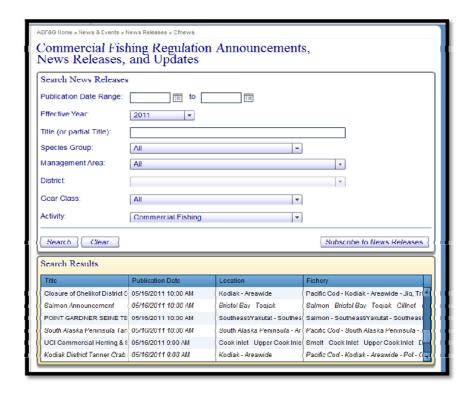
State of Alaska My Government Resident Business in Alaska, Visiting Alaska, State I imployer search Fish and Game ADEXC Home - News X Events - News Releases - Cfnews News & Events Commercial Fishing Regulation Announcements, News & Lvents Home News Releases, and Updates Regulation Annound News Releases & Emergency Orders Search News Releases ercial Lishing Publication Date Range. ⊞ lo Sport Fishing Hunting & Trapping Lifective Year: ΛII -Media-Press Releases Title (or partial Title) Hot Topics & Issues Species Group: - Ongoing Issues Management Area Articles & Interviews District: w Boards of Fisheries & Gear Class. Game: Actions and -Activity Commercial Fishing Alaska Fish & Wildlife News Online Magazine Search Clear Subscribe to News Releases Multimedia Libra

http://www.adfg.alaska.gov/index.cfm?adfg=cfnews.main

USING THE NEW SYSTEM - Searching for News Releases:

The new Commercial Fishing Regulation Announcements, News Release, and Updates web page allows you to select the news releases of interest by using the search screen. Drop down menus are available for all selection categories, to assist in filtering the search of News Releases. Using the drop down menus, you can narrow your search and the results of that search.

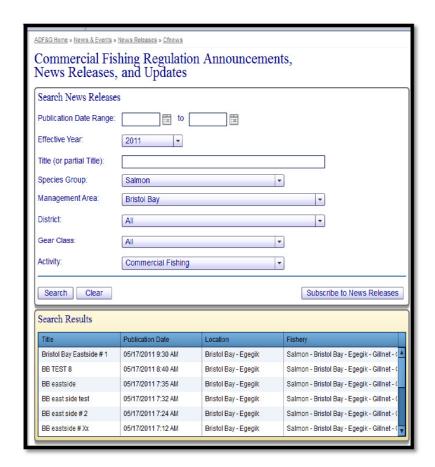
It is possible to view a list of all releases issued by the commercial fisheries division in an entire year or, as is usually the case, search for a specific fishery, like the Bristol Bay salmon fishery or Kodiak black rockfish fishery. To select the entire set of releases, every drop down menu should have "all" selected, except for year, which should be set for the current year, 2011. Press the "Search" button and the results will be displayed within the "Search Results" box. The following screen shot shows the selection criteria and search results for all news releases and updates.



To search for news releases specific to the Bristol Bay salmon fishery, the user selects 2011 as the year, salmon as the species, Bristol Bay as the management area, all for district, and activity as commercial fishing. Then push the "Search" button and the results are displayed in the "Search Results." A screen

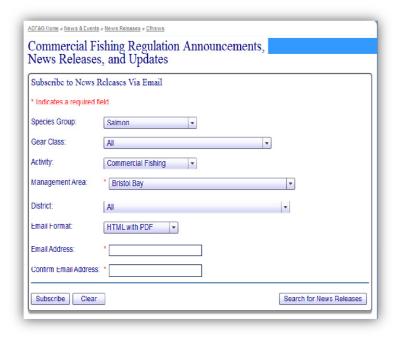
print of this selection is provided below. It would also be possible to search for a specific district in Bristol Bay by also selecting one of the "District" options within a specific management area.

To view a particular news release that is displayed in the Search Results section, the user will double click on that item in the list and it will open as a PDF document. The user will need to have Acrobat Reader installed on your computer to display and print the document.



Subscribing to News Releases:

After making a news release selection, it is possible to subscribe and receive, via email, future news releases for the specific fishery selected, by pushing the "Subscribe to News Releases" button at the right lower corner of the search screen. The subscription web page will display, as shown below.



Simply type in an email address in the box provided and then confirm this email address in the box provided for confirming email addresses, push the "Subscribe" button, and the subscription process is finished. News releases for the fisheries selected by the user will begin to appear in the user's mailbox as they are published by ADF&G staff.

The user may return to the search screen by pushing the "Search for News Releases" button in the lower right hand corner of the subscription screen. When you subscribe to all News Releases for a specific category, as defined by the drop down menu, this subscription is limited to the selection you created. If you wish to subscribe to news releases for other fisheries you will need to repeat the process described above for each subscription desired.

A user may unsubscribe to any subscription by clicking on the link "Unsubscribe" that is included within each email sent to a subscriber.