

**Annual Management Report for Groundfish Fisheries
in the Kodiak, Chignik, and South Alaska Peninsula
Management Areas, 2015**

by

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December 2017

Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



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

FISHERY MANAGEMENT REPORT NO. 17-42

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AND SOUTH ALASKA PENINSULA MANAGEMENT AREAS, 2015**

by

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ABSTRACT

This report summarizes 2015 harvest, effort, and management of commercial state-waters and parallel groundfish fisheries managed by the Alaska Department of Fish and Game in the Kodiak, Chignik, and South Alaska Peninsula areas. Principal state-waters fisheries include Pacific cod *Gadus macrocephalus* and black rockfish *Sebastes melanops*. The 2015 harvest of Pacific cod during state-waters fisheries totaled 46.29 million pounds from 220 vessels, for an estimated exvessel value of \$13.89 million. Black rockfish, predominantly harvested in the Kodiak Area, totaled 112,340 pounds for an estimated exvessel value of \$49,400. During parallel fisheries, ADF&G adopts most season dates, bycatch limits, and allowable gear types established by the National Marine Fisheries Service for federal fisheries that occur in the adjacent exclusive economic zone. Walleye pollock *Gadus chalcogrammus* and Pacific cod are the predominant species harvested during parallel fisheries.

Key words: Kodiak, Chignik, South Alaska Peninsula, groundfish, Pacific cod, black rockfish, walleye pollock, state-waters, parallel, commercial fisheries, exvessel, trawl, pot, jig, Annual Management Report

INTRODUCTION

This report provides an overview of commercial groundfish fisheries in the Kodiak, Chignik, and South Alaska Peninsula areas and summarizes commercial catch information and regulations that guide management of groundfish resources. Appendix A defines frequently used acronyms and key words associated with groundfish fisheries.

Commercial groundfish fisheries inside state waters (0–3 nmi) are managed by the Alaska Department of Fish and Game (ADF&G) under regulations developed by the Alaska Board of Fisheries (BOF). Management authority for commercial groundfish fisheries in the exclusive economic zone (EEZ; 3–200 nmi) off Alaska is delegated to National Marine Fisheries Service (NMFS) through the Magnuson–Stevens Fishery Conservation and Management Act (MSFCMA 2007). Federal commercial groundfish fisheries are prosecuted under guidelines developed by the North Pacific Fishery Management Council (NPFMC).

Several commercially important groundfish species managed by NMFS also occur inside state waters. To facilitate consistency between state and federal regulations for specific transboundary groundfish species, ADF&G issues an annual emergency order (EO) establishing parallel groundfish seasons. During parallel fisheries, the state adopts most NMFS rules such that seasons, allowable gear, bycatch limits, and inseason management actions mirror federal regulations of adjacent federal fisheries unless superseded by BOF regulations.

State-waters seasons are independent of federal/parallel seasons. In the Kodiak, Chignik, and South Alaska Peninsula areas, state-waters seasons for Pacific cod *Gadus macrocephalus*, lingcod *Ophiodon elongates*, black rockfish *Sebastes melanops*, and dark rockfish *Sebastes ciliatus* have been established by regulation. State-waters seasons for Pacific cod are prosecuted, and bycatch limits for sablefish *Anoplopoma fimbria* are established, exclusively within state waters of Alaska. The state has management authority from shore to the 200 nautical mile boundary of the EEZ for lingcod, dark rockfish, and black rockfish. In 2015, 13 EOs were issued to regulate groundfish fisheries in the Kodiak, Chignik, and South Alaska Peninsula management areas (Table 1).

During 2015, Pacific cod and walleye pollock *Gadus chalcogrammus* made up the largest volume of groundfish harvested from state waters in the Kodiak, Chignik, and South Alaska Peninsula areas (Table 2). In state waters, all directed walleye pollock harvest occurred during parallel seasons, whereas Pacific cod were harvested during both parallel and state-waters seasons.

PACIFIC COD

In the Gulf of Alaska (GOA), Pacific cod are managed as a single stock (Shimada and Kimura 1994). The 2015 GOA Pacific cod Acceptable Biological Catch (ABC) of 226.75 million pounds (A'mar and Palsson 2014) was apportioned 59.6% to the Central Gulf of Alaska (CGOA; 135.19 million pounds), 37.6% to the Western Gulf of Alaska (WGOA; 85.32 million pounds), and 2.8% to the Eastern Gulf of Alaska (EGOA; 6.23 million pounds) federal management areas (Figure 1).

The Pacific cod ABC is further apportioned between federal/parallel fisheries and state-waters fisheries. Federal/parallel fisheries in the CGOA and WGOA receive 75% and 70% respectively of the annual ABC as total allowable catch (TAC). TACs are further apportioned by season, gear, and operation type. Annually, NMFS allocates 60% of the TAC to the A season, which begins January 1 for fixed gear vessels and January 20 for trawl vessels. The remaining 40% of the TAC is made available for the B season beginning June 10 for jig gear and September 1 for pot, longline, and trawl gear. Twenty-five percent of the annual CGOA ABC and 30% of the WGOA ABC is available for harvest in state-waters Pacific cod fisheries as a guideline harvest level (GHL). State-waters Pacific cod GHLs in the Kodiak, Chignik, and South Alaska Peninsula areas are not apportioned into A and B seasons.

The 2015 CGOA Pacific cod harvest, including federal, parallel, and state-waters seasons, totaled 101.3 million pounds, which was 25% under the CGOA ABC (Table 3). Approximately 42% of the CGOA total harvest was taken from state waters (Table 3). Total Pacific cod harvest from the WGOA during 2015 totaled 62.52 million pounds, approximately 27% under the WGOA ABC. Approximately 54% of the total WGOA harvest was taken from state waters (Table 4).

PARALLEL SEASON

Background

ADF&G annually issues an EO establishing parallel Pacific cod seasons in state waters of the Kodiak, Chignik, and South Alaska Peninsula areas. EOs establishing parallel Pacific cod seasons adopt most federal fishing regulations including season dates, gear, area closures, bycatch limits, or other regulations the commissioner determines reasonably necessary to accommodate federal fishery management measures in state waters. NMFS area closures, including closures for Steller sea lion (SSL) protection, are in effect during parallel fisheries. Federal seabird avoidance requirements are recognized by the state during parallel Pacific cod fisheries as are vessel monitoring system and catch reporting requirements. Vessels participating in parallel Pacific cod fisheries are not required to register with ADF&G; however, vessel operators should contact NMFS about federal permit requirements while participating in parallel fisheries. Federal sector allocations based on processing activity are not recognized in parallel Pacific cod fisheries. Adjacent federal waters open to a gear type, for either catcher processor (CP) or catcher vessel (CV), are considered open in the parallel fishery for that same gear type regardless of processing activity.

2015 Central Gulf of Alaska Parallel Season

The CGOA parallel A season was open from January 1 through February 16 for pot gear and from January 1 through March 2 for jig gear in both the Kodiak and Chignik areas. The CGOA

parallel pot gear B season was open from September 1 through December 31 in the Kodiak Area; there was no CGOA parallel pot gear B season in Chignik Area during 2015 because the state-waters season did not close. Also, there was no CGOA parallel jig gear B season in either Kodiak or Chignik areas during 2015 because the state-waters jig gear seasons did not close.

Harvest of Pacific cod by all gear types during the 2015 parallel fishery within the Kodiak Area totaled 13.77 million pounds (Table 5). The majority of Pacific cod were harvested using pot gear (9.06 million pounds) and longline gear (3.78 million pounds).

The majority of the Chignik Area is located within the CGOA with a small portion located within the WGOA federal management area (Figure 1). Productive Pacific cod fishing grounds in the Chignik Area are closed to fishing during federal and parallel Pacific cod fisheries due to SSL closures implemented in 2001. As a result, Chignik Area parallel season Pacific cod harvests have generally been less than 600,000 pounds annually. The 2015 Chignik Area parallel Pacific cod harvest of 1.07 million pounds was predominantly taken by vessels using pot gear (Table 6).

2015 Western Gulf of Alaska Parallel Season

The WGOA parallel A season was open from January 1 through February 12 for pot gear and from January 1 through March 15 for jig gear. The WGOA parallel pot gear B season was open from September 1 through December 31. There was no WGOA parallel jig gear B season during 2015 because the state-waters jig gear season did not close. Harvest of Pacific cod by all gear types during the 2015 WGOA parallel fishery within the South Alaskan Peninsula Area totaled 9.15 million pounds (Table 7). The majority of Pacific cod were harvested by vessels using pot gear (8.12 million pounds).

STATE-WATERS SEASON

Background

State-waters Pacific cod seasons in the Kodiak, Chignik, and South Alaska Peninsula areas began in 1997. The BOF developed state-waters Pacific cod management plans that defined season dates, gear types, GHL allocation and rollover provisions, vessel registration requirements, and gear storage regulations for each management area (Table 8). Allowable gear types (pot, jig, and hand troll gear) and gear limits (60 pots or 5 jig machines) were the same across management areas. Fishing season, vessel size and registration exclusivity, GHL allocation and rollover, and gear storage were unique to each management area.

GHLs for each management area are set as a percentage of the annual federal Pacific cod ABC. State-waters GHLs were initially capped at 15% of the ABC established for the federal WGOA or CGOA management areas and were structured to increase incrementally to 20% and then 25% of federal ABCs if harvest in any year was within 10% of the established state-waters GHL. By 2003, each management area achieved the maximum GHL increment and GHLs were set at 25% of the WGOA ABC for the South Alaska Peninsula Area and 25% of the CGOA ABC further allocated as 12.50% for the Kodiak Area, 8.75% for the Chignik Area, and 3.75% for the Cook Inlet Area. In 2014, the BOF increased the South Alaska Peninsula Area GHL to 30% of the WGOA ABC.

2015 State-Waters Pacific Cod Season Overview

Approximately 46.29 million pounds of Pacific cod were harvested from Kodiak, Chignik, and South Alaska Peninsula areas by 220 vessels during 2015 state-waters seasons (Table 9). Total exvessel value was approximately \$13.89 million.

Kodiak Area

The state-waters pot gear season opens 7 days after the close of the federal CGOA pot gear A season. The state-waters jig gear season opens 48 hours after the close of the federal CGOA jig gear A season; however, if the federal jig gear season has not closed by March 15, the state-waters season may open based on remaining federal quota or inseason assessment of effort or harvest rate (Table 10).

The 2015 Kodiak Area GHL was 16.90 million pounds. Pot and jig gear vessels were each allocated 50% of the total GHL, or 8.45 million pounds (Table 11). Pot vessels larger than 58 feet in overall length were restricted to 25% of the total state-waters GHL, or 4.22 million pounds, before September 1. Total Pacific cod harvest from the 2015 Kodiak Area state-waters season was 12.18 million pounds taken by 127 vessels with an estimated exvessel value of \$4.14 million based on an average price of \$0.34 per pound (Table 9). Fishermen harvested Pacific cod from 34 statistical areas during the season (Table 12). Harvest was well distributed around the Kodiak Archipelago; however, notable harvests occurred near Spruce Island (statistical area 525731) and Chiniak Bay (statistical area 525733; Table 12; Appendix B1).

Kodiak Pot Gear Season

The 2015 federal CGOA pot gear A season closed February 16; therefore, the Kodiak Area state-waters Pacific cod pot gear season opened February 23 (Table 10). A total of 30 pot vessels participated in the 2015 season, the second lowest number of pot vessels since inception of the fishery. Fleet-wide daily pot gear landings ranged from approximately 35,000 to 611,000 pounds per day, with a fleet-wide daily average of 268,000 pounds. Average daily landings per vessel ranged from approximately 12,000 to 61,000 pounds, with a season-long average landing of 35,000 pounds. Harvest at the time of the pot gear season closure on March 24 was 8.30 million pounds, approximately 149,000 pounds (1.8%) under the pot gear GHL allocation. Vessels over 58 feet in length accounted for approximately 47% of the total pot gear harvest. The estimated exvessel value of the 2015 pot gear fishery was \$2.82 million based on an average price of \$0.34 per pound (Table 11). The pot gear season was open for 30 days (Table 10).

Kodiak Jig Gear Season

The 2015 federal CGOA jig gear A season closed March 2; therefore, the Kodiak Area state-waters Pacific cod jig gear season opened March 4 (Table 10). A total of 100 jig vessels landed 3.88 million pounds, 4.57 million pounds (54%) under the GHL allocation. The estimated exvessel value of the 2015 jig gear fishery was \$1.40 million, based on an average price of \$0.36 per pound (Table 11).

Effort and harvest were variable during the 2015 Kodiak jig gear season, peaking in April then decreasing through the remainder of season. Fleet-wide weekly landings ranged from 0 to approximately 426,000 pounds. From the beginning of the season through May, the number of landings per week ranged from 14 to 76, and from June through the end of the season, landings

per week ranged from 0 to 11. The jig gear season closed by regulation on December 31 (Table 10).

Allocation Rollover

Provisions in the *Kodiak Area Pacific Cod Management Plan* (5 AAC 28.467) provide additional harvest opportunity if ADF&G determines the GHL will not be attained by the regulatory closure date of December 31. The management plan allows unharvested state-waters GHL to be taken by either pot or jig gear after closure of the federal CGOA pot gear B season. In 2015, the federal CGOA pot gear B season did not close; therefore, there was no allocation rollover.

Chignik Area

The pot gear season opens 7 days after closure of the federal CGOA pot gear A season or March 1, whichever is later, and the jig gear season opens by regulation on March 15 (Table 13).

The 2015 Chignik Area GHL was 11.83 million pounds. Vessels using pot gear were allocated 90% of the GHL, or 10.65 million pounds, and vessels using jig gear were allocated 10%, or 1.18 million pounds (Table 14). Total Pacific cod harvest from the 2015 Chignik Area state-waters season was 10.25 million pounds taken by 19 vessels with an estimated exvessel value of \$2.77 million based on an average price of \$0.27 per pound (Table 9). Harvest occurred in 11 statistical areas during the 2015 state-waters season (Table 15). Most harvest occurred near Mitrofanina Island (statistical area 585531), the Semidi Islands (statistical area 565602), and Chignik Bay (statistical area 585601; Table 15; Appendix B2).

Chignik Pot Gear Season

The 2015 federal CGOA pot gear A season closed February 16; therefore, the Chignik Area state-waters Pacific cod pot gear season opened March 1 (Table 13). A total of 17 vessels participated in the 2015 season (Table 14). Fleet-wide daily pot gear landings ranged from approximately 198,000 to 842,000 pounds per day, with a fleet-wide daily average of 446,000 pounds. Average daily landings per vessel ranged from approximately 28,000 to 67,000 pounds, with a season-long average landing of 50,000 pounds. Harvest at the time of the pot gear season closure on March 23 was 10.25 million pounds, approximately 398,000 pounds (3.7%) under the pot gear GHL allocation. The estimated exvessel value of the 2015 pot gear fishery was \$2.77 million based on an average price of \$0.27 per pound (Table 14). Catch was primarily delivered to a floating processor located in the Chignik Area, although some landings were tendered to shore-based processors outside of the Chignik Area. The pot gear season was open for 23 days (Table 13).

Chignik Jig Gear Season

Two vessels participated in the 2015 Chignik Area jig gear season; all harvest is confidential (Table 14). The 2015 jig gear season closed by regulation on December 31 (Table 13).

Allocation Rollover

Provisions in the *Chignik Area Pacific Cod Management Plan* (5 AAC 28.537) provide additional harvest opportunity if ADF&G determines the GHL will not be attained by the regulatory closure date of December 31. The management plan allows unharvested GHL to be taken by either pot or jig gear starting August 15. In 2015, the rollover fishery was open from August 15 through December 31, but no vessels made landings.

South Alaska Peninsula Area

The state-waters pot gear season opens March 7 or 7 days after the close of the federal WGOA pot gear season, whichever is later. The state-waters jig gear season opens 48 hours after the close of the federal WGOA jig gear season; however, if the federal jig season has not closed by March 15, the state-waters season may open based on remaining federal quota or inseason assessment of effort or harvest rate (Table 16). In addition, if the National Weather Service (NWS) marine forecast for the scheduled opening date or the following day includes a gale warning between Castle Cape and Cape Sarichef (NWS Area PKZ 155), the season opening will be delayed for 24 hours. If gale warnings persist in the NWS marine forecast after the initial weather delay, the season will continue to be delayed on a 24-hour basis for 7 days beyond the initial opening date, when the season will open regardless of weather forecasts.

The 2015 South Alaska Peninsula Area GHL was 25.60 million pounds. Vessels using pot gear were allocated 85% of the total GHL, or 21.76 million pounds; vessels using jig gear were allocated 15% of the GHL, or 3.84 million pounds (Table 17). The total 2015 state-waters season Pacific cod harvest was 23.87 million pounds taken by 77 vessels with an estimated exvessel value of \$6.68 million based on an average price of \$0.28 per pound (Table 9). Harvest occurred in 32 statistical areas during the 2015 state-waters season (Table 18). Notable harvests occurred near Nagai Island (statistical areas 605502), Cape Pankof (statistical area 635434), Sanak Island (statistical area 625401), and Usof Bay (statistical area 665302; Table 18; Appendix B3).

South Alaska Peninsula Pot Gear Season

The 2015 federal WGOA pot gear A season closed January 12; therefore, the South Alaska Peninsula Area state-waters Pacific cod pot gear season opened March 7 (Table 16). A total of 42 vessels participated in the fishery (Table 17). Fleet-wide daily pot gear landings ranged from approximately 10,000 to 1,471,000 pounds per day, with a fleet-wide daily average of 802,000 pounds. Average daily landings per vessel ranged from approximately 10,000 to 63,000 pounds, with a season-long average landing of 47,000 pounds. Harvest at the time of the pot gear season closure on March 31 was 21.65 million pounds, approximately 106,000 pounds (<1%) under the pot gear GHL allocation. The estimated exvessel value of the pot gear fishery was \$6.06 million based on an average price of \$0.28 per pound (Table 17). The pot gear season was open for 25 days (Table 16).

South Alaska Peninsula Jig Gear Season

The 2015 federal WGOA jig gear A season did not close by March 15; therefore, the South Alaska Peninsula Area state-waters Pacific cod jig gear season was scheduled to open March 15, but was delayed by regulation due to weather until March 18 (5 AAC 28.577(l); Table 16). A total of 35 jig vessels landed 2.22 million pounds, 1.62 million pounds (42%) under the GHL allocation. The estimated exvessel value of the 2015 jig gear fishery was \$598,000, based on an average price of \$0.27 per pound (Table 17). Effort and harvest were variable during the 2015 South Alaska Peninsula jig gear season, peaking in late April and early May then decreasing through the remainder of the season. Fleetwide weekly landings ranged from 0 to approximately 325,000 pounds. From the beginning of the season through May, the number of landings per week ranged from 8 to 54, and from June through the end of the season, landings per week ranged from 0 to 18. The jig gear season closed by regulation on December 31 (Table 16).

Allocation Rollover

Provisions in the *South Alaska Peninsula Area Pacific Cod Management Plan* (5 AAC 28.577) provide additional harvest opportunity if ADF&G determines the GHL will not be attained by the regulatory closure date of December 31. The management plan allows unharvested state-waters GHL to be taken by either pot or jig gear after closure of the federal WGOA pot gear B season. In 2015, the federal WGOA pot gear B season did not close; therefore, there was no allocation rollover.

Pacific Cod Harvest Monitoring

During the 2015 season, daily harvest reports were obtained from vessel operators using pot gear. Harvest reports included daily number of pots pulled, pounds retained, and fishing location for each vessel. Processor and vessel catch reports were subsequently referenced against landing data derived from the Interagency Electronic Reporting System (eLandings) to track daily catch and forecast harvests.

Dockside sampling was conducted in the port of Kodiak throughout the state-waters season and in Sand Point and King Cove during periods of high fishing effort. Pacific cod harvested in the Chignik Area were opportunistically sampled if those fish were landed in Sand Point. Dockside samplers conducted confidential interviews with vessel operators to obtain information on catch location, catch per unit effort, and bycatch. Samplers also collected data on fish length, weight, sex, reproductive status, and age.

During 2015, dockside sampling staff in Kodiak, King Cove, and Sand Point conducted 79 skipper interviews and collected biological samples from 111 deliveries from Kodiak, Chignik, and South Alaska Peninsula management areas. Samplers collected 6,314 fish lengths, 2,635 individual fish weights, extracted 1,700 otolith pairs for age determination, and made 1,700 observations of sex and maturity.

Average length of sampled Pacific cod in the Chignik and South Alaska Peninsula areas was 66 cm and 67 cm respectively, both are similar to the recent 5-year averages (Figures 3 and 4). Average length of Pacific cod in the Kodiak Area was 60 cm, which is less than the recent 5-year average (65 cm; Figure 2). Preliminary analysis of otoliths indicates the age of Pacific cod sampled from the 2015 harvest ranged from 3 to 10 years. Similar to the recent 5-year average, Pacific cod were predominantly age 5 and 6 in the Kodiak Area and ages 5–7 in the South Alaska Peninsula Area. Chignik Area fish were predominantly age 6 and 7, an increase from recent 5-year average of predominately age 6 fish (Figures 5, 6, and 7).

BLACK ROCKFISH

BACKGROUND

In 1998, ADF&G assumed management authority for black rockfish within the EEZ of the GOA. That year ADF&G began assigning GHGs to state groundfish management areas within the CGOA to better distribute effort (Tables 19, 20, and 21; Figure 8). Since 2008, the BOF has provided further structure to black rockfish fishery regulations through registration requirements, trip limits, and bycatch limits (Table 22).

2015 BLACK ROCKFISH OVERVIEW

The black rockfish fishery in the Kodiak, Chignik, and South Alaska Peninsula areas opened January 1, 2015. Guideline harvest levels were attained in 4 districts in the Kodiak Area; GHLS were not met in the South Alaska Peninsula or Chignik areas.

Kodiak Area Fishery

The 2015 Kodiak Area black rockfish GHL totaled 125,000 pounds distributed across 5 management districts (Table 23). Harvest primarily occurred in Afognak, Northeast, and Eastside districts from February through June while harvest in Southeast District occurred during August and September. A total of 26 vessels harvested 112,292 pounds of black rockfish (Table 19). The exvessel value of the fishery was approximately \$49,000 based on an average price of \$0.44 per pound.

Chignik Area Fishery

The 2015 Chignik Area black rockfish GHL was 100,000 pounds. There was no participation during the 2015 season (Table 20).

South Alaska Peninsula Area Eastern District Fishery

The 2015 South Alaska Peninsula Area Eastern District black rockfish GHL was 75,000 pounds. One vessel made 1 landing during the 2015 season (Table 21). Harvest information is confidential due to limited participation.

Black Rockfish Harvest Monitoring

Black rockfish harvests are monitored through fish ticket records, vessel registrations, and dockside sampling. Information collected by dockside samplers includes fishing location and effort as well as fish length, weight, sex, reproductive status, and age. Due to limited participation in the Chignik and South Alaska Peninsula areas, 2015 black rockfish dockside data collection was limited to the Kodiak Area.

Black rockfish sampled from landings in the Kodiak Area during 2015 averaged 46 cm in length (Figure 9). Otoliths were extracted from 727 black rockfish for age determination; age ranged from 6 to 50 years. The 4 most predominant age classes (7, 10, 11, and 13 years) made up 58% of the black rockfish sampled (Figure 10).

SABLEFISH

Sablefish are typically associated with deep waters near the continental shelf and abundance is low inside state waters east of Unimak Pass. The BOF prohibited directed state-waters sablefish fisheries in the Kodiak and Chignik areas in 2002 and in the Eastern District of South Alaska Peninsula Area in 2003. Since that time, sablefish may only be retained as bycatch during state-waters groundfish fisheries. Sablefish bycatch in federal fisheries is managed by NMFS and those rules are adopted inside state waters by ADF&G, during parallel fisheries, through the global groundfish EO.

In the Kodiak and Chignik areas and in the Eastern District of the South Alaska Peninsula Area, directed harvest of sablefish may occur during the federal individual fishing quota (IFQ) program fisheries.

In 2015, the total sablefish harvest in state waters of the Kodiak, Chignik, and South Alaska Peninsula areas was 24,764 pounds, of which 1,845 pounds were taken as bycatch and 22,918 pounds were harvested during the federal IFQ fishery (Table 2).

LINGCOD

Commercial regulations in the Kodiak and Chignik areas prohibit retention of lingcod prior to July 1 and require retained lingcod to be a minimum of 35 inches in total length. These regulations are designed to prevent commercial exploitation during nest-guarding and ensure only mature fish are harvested. The South Alaska Peninsula Area is believed to be near the western limit of lingcod distribution (Mecklenburg et al. 2002); therefore, seasonal retention and size limit regulations are not necessary to limit harvest.

Mechanical jigging machine and hand troll gear may be used to target lingcod. Since 1988, harvests of lingcod in the Kodiak, Chignik, and South Alaska Peninsula areas have generally remained below 100,000 pounds annually, and most harvest occurs as bycatch in other commercial groundfish fisheries. During 2008, harvest increased considerably to 521,259 pounds largely due to increased retention by trawl vessels (Table 24). In response, ADF&G reduced the allowable lingcod bycatch rate from 20% to 5% prior to the start of the 2009 season. Since that time, there has been no directed effort and harvest has ranged from approximately 63,000 pounds to 158,000 pounds. The 2015 lingcod harvest in the Kodiak, Chignik, and South Alaska Peninsula areas was 62,589 pounds; of that, 5,066 pounds were taken as bycatch in state waters (Tables 2 and 24).

PARALLEL WALLEYE POLLOCK FISHERIES

State waters are opened for parallel walleye pollock seasons concurrent with adjacent federal seasons. Annual harvest quotas are allocated across 4 seasons (A, B, C, and D seasons). In some areas, more than one opening occurred within a season to ensure the full seasonal allocation was harvested (Table 25). Walleye pollock were primarily harvested by vessels using pelagic trawl gear.

In 2015, harvest of walleye pollock by vessels using trawl gear totaled 292.4 million pounds in the CGOA and 63.0 million pounds in the WGOA (Tables 26 and 27). Approximately 17% of the total 2015 CGOA walleye pollock harvest and 28% of the total 2015 WGOA harvest occurred in state waters.

Recently, commissioner permits have been issued to harvest pollock with jig and seine gear. These experimental fisheries are designed to provide an opportunity for smaller vessels to target pollock in state waters. Effort and harvest under these permits has been nominal.

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TABLES AND FIGURES

Table 1.–Kodiak, Chignik, and South Alaska Peninsula management areas groundfish emergency orders summary, 2015.

Emergency Order	Effective Date	Explanation
4-GF-01-15	January 1, 2015	Established parallel commercial groundfish fishing seasons and bycatch limits in the Kodiak, Chignik, South Alaska Peninsula, and Bering Sea-Aleutian Islands areas
4-GF-04-15	February 23, 2015	Opened Kodiak Area state-waters Pacific cod season to pot gear
4-GF-06-15	March 4, 2015	Opened Kodiak Area state-waters Pacific cod season to jig gear
4-GF-08-15	March 24, 2015	Closed Kodiak Area state-waters Pacific cod season to pot gear
4-GF-09-15	March 23, 2015	Closed Chignik Area state-waters Pacific cod season to pot gear
4-GF-10-15	March 23, 2015	Closed the directed black rockfish fishery in the Northeast District of the Kodiak Area
4-GF-11-15	March 31, 2015	Closed South Alaska Peninsula Area state-waters Pacific cod season to pot gear
4-GF-12-15	April 6, 2015	Closed the directed black rockfish fishery in the Eastside District of the Kodiak Area
4-GF-13-15	April 22, 2015	Reduced the black rockfish bycatch allowance for vessels using jig gear, from 20 percent to 5 percent, in the Eastside District of the Kodiak Area
4-GF-14-15	May 5, 2015	Reduced the black rockfish bycatch allowance for vessels using jig gear, from 20 percent to 5 percent, in the Northeast District of the Kodiak Area
4-GF-15-15	June 2, 2015	Closed the directed black rockfish fishery in the Afognak District of the Kodiak Area
4-GF-16-15	August 15, 2015	Removed the harvest allocation between pot and jig gear for the remainder of the Chignik Area state-waters Pacific cod season
4-GF-17-15	August 15, 2015	Increased the trip limit, from 5,000 pounds to 7,000 pounds, for vessels targeting black rockfish in the Westside and Southeast districts of the Kodiak Area

Notes: Omitted emergency orders (e.g., 4-GF-02-15) enacted for management areas other than Kodiak, Chignik, and South Alaska Peninsula areas.

Table 2.—Top 30 species harvested, by weight in pounds, as reported on groundfish fish tickets, from state waters of Kodiak, Chignik, and South Alaska Peninsula (SAP) groundfish management areas, 2015.

Species	Kodiak	Chignik	SAP	Total
Pacific cod	25,949,033	11,317,633	33,021,851	70,288,518
Walleye pollock	47,834,631	943,407	17,587,415	66,365,453
Pacific halibut	1,171,710	370,384	667,767	2,209,861
Octopus spp.	311,303	6,936	45,290	363,529
Arrowtooth flounder	219,155	213	39,073	258,441
Flathead sole	173,345	243	52,188	225,776
Longnose skate	217,322	Confidential	Confidential	217,322
Black rockfish	110,633	370	962	111,965
Squid spp.	108,288	Confidential	85	108,373
Big skate	85,955	0	36	85,991
Rock sole	25,046	0	42,900	67,946
Pacific herring	49,171	Confidential	3,764	52,935
Capelin	49,678	0	8	49,686
Dusky rockfish	41,108	Confidential	164	41,272
Sablefish	12,033	28	12,703	24,764
Jellyfish spp.	47	415	22,809	23,271
Dark rockfish	11,142	0	Confidential	11,142
Chinook salmon	5,571	201	4,642	10,414
Yelloweye rockfish	6,266	3,237	707	10,210
Starry flounder	6,110	0	50	6,160
Pacific ocean perch	5,071	0	278	5,349
Lingcod	5,066	Confidential	0	5,066
Eulachon	4,455	17	175	4,647
Lumpsucker	2,664	204	1,733	4,601
Rex sole	2,555	0	15	2,570
Sculpin spp.	1,295	0	1,107	2,402
Spiny dogfish	2,006	0	67	2,073
Shortraker rockfish	2,026	Confidential	Confidential	2,026
Rougheye rockfish	1,512	245	Confidential	1,757
Thornyhead rockfish	Confidential	Confidential	1,168	1,168

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels participated. Total fish pounds do not include confidential data.

Table 3.—Central Gulf of Alaska Management Area federal and state-waters Pacific cod harvest, in millions of pounds, 1990–2015.

Year	Federal Waters		State Waters		Total Harvest	ABC	Discards at Sea
	Harvest	% of Total	Harvest	% of Total			
1990	79.79	87.10	11.82	12.90	91.61	130.95	0.58
1991	81.24	80.61	19.55	19.39	100.79	106.48	0.51
1992	73.12	81.56	16.53	18.44	89.65	85.40	0.46
1993	60.31	83.87	11.60	16.13	71.91	77.50	0.66
1994	50.28	79.60	12.89	20.40	63.16	68.89	0.81
1995	72.84	77.00	21.76	23.00	94.60	100.69	0.79
1996	71.93	81.10	16.76	18.90	88.70	94.58	3.22
1997	76.64	75.71	24.59	24.29	101.24	113.20	1.83
1998	72.63	74.47	24.90	25.53	97.53	108.20	0.39
1999	71.03	67.57	34.08	32.43	105.11	117.22	0.17
2000	56.32	72.17	21.71	27.83	78.03	96.01	0.45
2001	50.00	78.02	14.08	21.98	64.08	85.20	0.80
2002	42.44	70.02	18.18	29.98	60.62	69.84	1.11
2003	41.97	67.57	20.14	32.43	62.11	64.02	0.99
2004	47.26	66.14	24.19	33.86	71.45	78.93	0.49
2005	38.94	61.86	24.00	38.14	62.94	73.01	0.24
2006	37.21	62.54	22.29	37.46	59.50	83.49	0.14
2007	43.58	65.41	22.99	34.59	66.57	83.49	0.41
2008	45.21	63.63	25.84	36.37	71.05	83.56	1.16
2009	35.33	59.90	23.68	40.10	59.02	69.50	1.23
2010	63.34	63.90	35.74	36.10	99.08	108.10	0.94
2011	66.87	59.90	44.86	40.10	111.73	118.64	0.48
2012	67.86	58.80	47.51	41.20	115.38	125.53	0.44
2013	54.64	67.00	26.85	33.00	81.49	108.66	0.88
2014	65.97	64.90	35.75	35.10	101.72	117.07	2.62
2015	58.61	57.90	42.64	42.10	101.26	135.19	1.14

Notes: Weights reported in whole fish pounds; discards at sea excluded from all columns except the *Discards at sea* column. State and federal harvests may not add to total due to rounding. ABC = Acceptable Biological Catch.

Table 4.—Western Gulf of Alaska Management Area federal and state-waters Pacific cod harvest, in millions of pounds, 1990–2015.

Year	Federal Waters		State Waters		Total Harvest	ABC	Discards at Sea
	Harvest	% of Total	Harvest	% of Total			
1990	72.20	84.61	13.13	15.39	85.33	65.48	0.74
1991	71.95	94.37	4.29	5.63	76.24	56.67	0.32
1992	59.73	81.96	13.15	18.04	72.87	51.80	0.74
1993	37.90	95.27	1.88	4.73	39.78	41.25	0.18
1994	24.88	77.26	7.32	22.74	32.20	36.67	0.15
1995	35.68	79.88	8.99	20.12	44.67	44.24	0.20
1996	35.28	73.19	12.92	26.81	48.20	41.56	0.29
1997	47.34	70.77	19.55	29.23	66.88	62.89	0.37
1998	39.98	68.88	18.06	31.12	58.04	60.11	0.08
1999	39.73	65.24	21.16	34.76	60.90	65.12	0.04
2000	33.73	54.73	27.90	45.27	61.63	60.64	0.07
2001	23.02	53.54	19.97	46.46	42.99	53.81	0.03
2002	26.32	55.36	21.22	44.64	47.54	49.52	0.07
2003	17.55	40.36	25.93	59.64	43.48	45.40	0.07
2004	17.11	37.80	28.16	62.20	45.27	49.85	0.05
2005	16.49	42.52	22.29	57.48	38.77	46.11	0.05
2006	11.23	28.81	27.74	71.19	38.96	59.21	0.04
2007	15.83	41.60	22.31	58.40	38.14	59.21	0.05
2008	21.53	50.10	21.47	49.90	43.00	57.17	0.06
2009	17.11	42.40	23.24	57.60	40.35	47.55	0.05
2010	26.00	44.00	33.16	56.00	59.16	61.03	0.36
2011	28.42	43.70	36.63	56.30	65.05	66.98	0.10
2012	30.93	54.70	25.59	45.30	56.53	61.80	0.07
2013	31.37	55.20	25.41	44.80	56.78	62.35	0.12
2014	32.92	49.00	34.24	51.00	67.16	72.19	0.08
2015	28.75	46.00	33.77	54.00	62.52	85.23	0.14

Notes: Weights reported in whole fish pounds. Discards at sea excluded from all columns except the *Discards at sea* column. State and federal harvests may not add to total due to rounding. ABC = Acceptable Biological Catch.

Table 5.–Kodiak Area Pacific cod harvest, in pounds, by gear type, during parallel Pacific cod seasons, 1997–2015.

Year	Gear Type				Total
	Pot	Longline	Trawl	Jig	
1997	8,311,893	1,894,214	857,688	Confidential	11,063,795
1998	4,998,323	2,166,389	799,570	27,246	7,991,527
1999	8,102,503	2,579,782	1,226,554	27,963	11,936,802
2000	4,459,508	3,577,798	247,475	79,365	8,364,146
2001	2,800,868	2,284,067	213,454	22,414	5,320,803
2002	2,324,281	1,310,940	270,531	5,926	3,911,678
2003	3,104,572	2,700,479	428,503	16,045	6,249,599
2004	2,329,223	3,857,610	498,690	244,600	6,930,123
2005	3,890,960	3,508,713	366,751	298,326	8,064,750
2006	4,429,520	5,423,320	398,582	190,037	10,441,459
2007	5,018,241	3,420,699	150,583	68,583	8,658,106
2008	3,317,365	1,941,762	305,023	38,267	5,602,417
2009	2,741,107	2,910,195	139,002	70,765	5,861,069
2010	5,142,268	3,319,129	115,026	232,643	8,809,066
2011	7,804,342	4,747,813	108,274	1,080,840	13,741,269
2012	6,401,191	8,177,721	32,606	783,464	15,394,982
2013	3,021,936	2,892,600	59,008	66,766	6,040,310
2014	3,425,588	4,189,250	95,711	242,415	7,952,964
2015	9,058,728	3,782,261	186,690	742,855	13,770,534

Notes: Weights reported in whole fish pounds; discards at sea excluded.

Table 6.–Chignik Area Pacific cod harvest, in pounds, by gear type, during parallel Pacific cod seasons, 1997–2015.

Year	Gear type				Total
	Pot	Longline	Trawl	Jig	
1997	Confidential - All Gear Types				651,504
1998	Confidential - All Gear Types				541,455
1999	822,098	3,056	39,704	0	864,858
2000	Confidential - All Gear Types				434,483
2001	Confidential - All Gear Types				174,654
2002	Confidential - All Gear Types				294,577
2003	Confidential - All Gear Types				292,112
2004	Confidential - All Gear Types				211,006
2005	Confidential - All Gear Types				95,400
2006	Confidential - All Gear Types				112,499
2007	CF	1,549	CF	0	40,033
2008	Confidential - All Gear Types				210,326
2009	239,584	63,551	0	0	303,135
2010	564,567	66,398	0	0	630,965
2011	258,963	96,036	CF	CF	357,322
2012	CF	14,631	37,626	CF	88,878
2013	395,052	25,716	20,018	0	440,785
2014	1,729,086	6,828	0	0	1,735,914
2015	1,053,533	14,881	837	0	1,069,251

Notes: Weights reported in whole fish pounds; discards at sea excluded. CF = Confidential. Data are confidential in cases where fewer than 3 vessels participated. Total whole fish pounds include confidential data.

Table 7.—South Alaska Peninsula Area Pacific cod harvest, in pounds, by gear type, during parallel Pacific cod seasons, 1997–2015.

Year	Gear Type				Total
	Pot	Longline	Trawl	Jig	
1997	2,068,400	32,624	7,758,378	Confidential	9,859,402
1998	4,205,388	522,328	3,867,782	0	8,595,498
1999	3,279,793	34,975	5,308,250	0	8,623,018
2000	5,699,112	236,808	6,698,838	11,499	12,646,257
2001	3,272,010	53,184	2,424,221	340,092	6,089,507
2002	6,051,920	30,456	666,876	411,378	7,160,630
2003	12,966,344	608,303	310,012	92,528	13,429,687
2004	12,887,904	30,455	945,983	397,922	14,262,264
2005	6,175,670	566,138	2,835,871	100,691	9,678,370
2006	9,286,910	233,028	6,366,015	Confidential	15,885,953
2007	6,559,997	426,535	2,483,748	3,300	9,473,580
2008	6,387,463	626,799	863,671	114,599	7,992,532
2009	8,054,281	2,308,330	654,176	417,515	11,434,302
2010	13,229,552	1,605,590	1,691,696	763,299	17,290,137
2011	17,487,423	375,680	765,222	503,458	19,131,783
2012	5,720,700	358,908	2,761,687	567,920	9,409,215
2013	7,851,502	356,391	700,882	674,577	9,583,352
2014	8,551,709	503,917	1,048,900	1,690,458	11,794,984
2015	8,115,335	211,052	707,076	120,803	9,154,266

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential in cases where fewer than 3 vessels participated. Total pounds do not include confidential data.

Table 8.–Kodiak, Chignik, and South Alaska Peninsula areas regulatory development for state-waters and parallel Pacific cod fisheries, 1996–2015.

Year	Regulation
1996	– Alaska Board of Fisheries developed state-waters Pacific cod management plans for Kodiak, Chignik, and SAP areas – Kodiak, Chignik, and SAP areas established as exclusive registration areas for state-waters fisheries; suspension of exclusivity allowed after October 30 – Kodiak, Chignik, and SAP areas allowable gear for state-waters established; mechanical jigging machines (5 machines), hand troll, and pots (60 pots); suspension of gear limits allowed after October 30 – Season opening dates established for state-waters fisheries; Kodiak and SAP areas open 14 days after federal season closure; Chignik Area opens April 15 – Vessel size limits established for Chignik and SAP state-waters fisheries ($\leq 58'$); suspension of vessel size limit allowed after October 30 – Kodiak Area state-waters GHl allocated by gear type (50% pot, 50% jig); allocation rollover allowed after August 31
1997	– Kodiak, Chignik and SAP areas first state-waters fisheries prosecuted
1998	– Season opening dates changed for state-waters fisheries; Kodiak and SAP areas open 7 days after federal season closure; Chignik Area opens April 1 – SAP Area state-waters GHl allocated by gear type (85% pot, 15% jig); allocation rollover allowed after August 31
1999	– Chignik Area state-waters season opening date changed to April 15 – Chignik Area state-waters GHl allocated by gear type (85% pot, 15% jig); allocation rollover allowed after August 14 – Chignik Area changed to superexclusive registration area for state-waters fishery – Kodiak Area pot gear vessels $>58'$ harvest capped at 25% of state-waters GHl prior to September 1
2001	– State regulation adopted recognizing Steller sea lion haulouts during parallel fisheries – Chignik Area state-waters season opening date changed to seven days after federal CGOA closure
2002	– Vessel monitoring system (VMS) rules implemented during parallel fisheries – Pot storage requirements liberalized in Kodiak and Chignik areas for transition period between parallel and state-waters fisheries – Chignik Area state-waters season opening date changed to March 1
2004	– Pot storage requirements liberalized in SAP Area for transition period between parallel and state-waters fisheries
2005	– Chignik Area state-waters GHl allocation changed (90% pot, 10% jig)
2007	– SAP Area 24-hour weather delay prior to state-waters season opening adopted – SAP Area mandatory inseason catch reporting by vessels during state-waters fishery adopted – SAP Area registration requirements changed, prohibiting fishing in another groundfish fishery outside of SAP Area and a portion of Chignik Area
2010	– SAP Area vessel size limit ($\leq 58'$) for parallel fishery adopted

-continued-

Table 8.–Page 2 of 2.

Year	Regulation
2011	– Chignik Area vessel size limit ($\leq 58'$) for parallel fishery adopted
2012	– Kodiak Area state-waters season opening dates changed: pot gear opens seven days after federal CGOA pot gear A-season closure; jig gear opens 48 hours after federal CGOA jig gear A-season closure
	– Chignik Area state-waters season opening dates changed: pot gear opens seven days after federal CGOA pot gear A-season closure or March 7, whichever is later
	– SAP Area state-waters season opening dates changed: pot gear opens seven days after federal WGOA pot gear A-season closure or March 7, whichever is later, unless delayed by weather
	– Kodiak, Chignik and SAP areas state-waters season closure dates changed: jig gear closes June 8 or later, based on inseason assessment, to allow parallel jig gear season
2014	– SAP Area state-waters GHL increased to 30% of WGOA ABC
	– Chignik Area state-waters season opening dates changed: pot gear opens seven days after federal CGOA pot gear A-season closure or March 1, whichever is later
	– Chignik and SAP areas pot gear storage regulations changed: vessels may store open and unbaited pots at any depth beginning seven days prior to state-waters season opening
2015	– Chignik Area gear limits removal date changed from after October 30 to after August 14

Notes: SAP = South Alaska Peninsula, GHL = Guideline Harvest Level, CGOA = Central Gulf of Alaska, WGOA = Western Gulf of Alaska, ABC = Acceptable Biological Catch

Table 9.—Kodiak, Chignik, and South Alaska Peninsula areas state-waters Pacific cod effort, harvest in pounds, and value, 2000–2015.

	Year	Vessels	Landings	GHL ^a	Harvest ^b	Price Per Pound ^c	Exvessel Value
Kodiak Area	2000	204	1,707	12,001,414	8,562,816	\$0.37	\$3,168,242
	2001	103	669	10,651,083	4,843,741	\$0.35	\$1,695,309
	2002	82	552	8,730,306	8,825,851	\$0.32	\$2,824,272
	2003	128	837	7,991,757	8,154,867	\$0.35	\$2,854,203
	2004	156	1,122	9,865,686	10,033,889	\$0.30	\$3,010,167
	2005	158	1,011	9,126,311	8,548,163	\$0.33	\$2,820,894
	2006	113	646	10,436,959	6,330,518	\$0.41	\$2,595,512
	2007	94	639	10,436,959	6,406,965	\$0.52	\$3,331,622
	2008	111	988	10,444,675	10,548,875	\$0.60	\$6,329,325
	2009	130	971	8,686,489	8,591,477	\$0.34	\$2,921,102
	2010	114	880	13,514,888	13,566,306	\$0.27	\$3,662,903
	2011	161	1,170	14,830,496	15,268,123	\$0.36	\$5,496,524
	2012	180	1,355	15,691,401	15,414,509	\$0.37	\$5,703,368
	2013	88	441	13,582,680	7,277,324	\$0.27	\$1,964,877
	2014	100	751	14,633,165	12,325,488	\$0.34	\$4,190,666
	2015	127	1,045	16,898,432	12,178,498	\$0.34	\$4,140,689
Chignik Area	2000	25	163	6,720,792	1,794,759	\$0.31	\$556,375
	2001	26	179	5,964,606	2,648,655	\$0.26	\$688,650
	2002	25	198	4,888,971	4,227,519	\$0.20	\$845,504
	2003	28	257	4,475,384	4,467,571	\$0.28	\$1,250,920
	2004	28	297	6,905,980	5,750,461	\$0.24	\$1,380,111
	2005	23	250	6,388,418	5,787,543	\$0.25	\$1,446,886
	2006	14	206	7,305,871	3,439,521	\$0.34	\$1,169,437
	2007	16	241	7,305,871	5,700,861	\$0.45	\$2,565,387
	2008	25	265	7,311,273	6,838,934	\$0.56	\$3,829,803
	2009	12	123	6,080,542	5,679,676	\$0.24	\$1,363,122
	2010	17	184	9,460,421	9,153,719	\$0.30	\$2,746,116
	2011	32	244	10,381,347	10,346,856	\$0.31	\$3,207,525
	2012	26	204	10,983,981	10,496,608	\$0.36	\$3,778,779
	2013	19	191	9,507,876	8,712,190	\$0.27	\$2,352,291
	2014	14	157	10,243,216	9,593,269	\$0.29	\$2,782,048
	2015	19	213	11,828,903	10,248,382	\$0.27	\$2,767,063
South Alaska Peninsula Area	2000	90	650	15,156,781	15,044,104	\$0.38	\$5,716,759
	2001	121	727	13,448,198	13,464,020	\$0.26	\$3,500,645
	2002	103	594	12,381,712	12,715,465	\$0.23	\$2,924,557
	2003	92	604	11,353,806	11,560,663	\$0.27	\$3,121,379
	2004	88	594	12,461,629	12,442,442	\$0.24	\$2,986,186
	2005	74	529	11,527,972	11,436,857	\$0.26	\$2,973,583
	2006	54	386	14,801,285	11,739,736	\$0.38	\$4,461,100
	2007	60	465	14,801,285	12,678,151	\$0.47	\$5,958,731

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	Year	Vessels	Landings	GHL ^a	Harvest ^b	Price Per Pound ^c	Exvessel Value
	2008	97	700	14,292,568	13,302,050	\$0.57	\$7,582,169
	2009	72	514	11,886,774	11,594,124	\$0.25	\$2,898,531
	2010	69	534	15,258,744	15,288,266	\$0.26	\$3,974,949
	2011	82	551	16,744,109	16,806,305	\$0.31	\$5,209,955
	2012	95	644	15,449,995	15,356,768	\$0.34	\$5,221,301
	2013	74	529	15,586,682	15,583,345	\$0.27	\$4,207,503
	2014	73	616	21,657,085	21,949,138	\$0.29	\$6,365,250
	2015	76	759	25,596,991	23,867,585	\$0.28	\$6,682,924
Total	2000	314	2,519	33,878,987	25,401,678	\$0.36	\$9,144,604
	2001	246	1,575	30,063,887	20,956,415	\$0.28	\$5,867,796
	2002	208	1,344	26,000,989	25,768,835	\$0.30	\$7,730,651
	2003	248	1,698	23,820,947	24,183,101	\$0.34	\$8,222,254
	2004	272	2,013	29,233,295	28,266,792	\$0.27	\$7,632,034
	2005	253	1,790	27,042,701	25,772,563	\$0.30	\$7,731,769
	2006	179	1,234	32,544,115	21,509,775	\$0.40	\$8,603,910
	2007	170	1,345	32,544,115	24,785,977	\$0.50	\$12,392,989
	2008	231	1,950	32,048,516	30,689,859	\$0.59	\$18,107,017
	2009	213	1,607	26,653,805	25,865,277	\$0.30	\$7,759,583
	2010	198	1,574	38,234,053	38,008,291	\$0.27	\$10,262,239
	2011	275	1,964	41,955,952	42,421,284	\$0.34	\$14,423,237
	2012	301	2,203	42,125,377	41,267,885	\$0.36	\$14,856,439
	2013	181	1,161	38,677,238	31,572,859	\$0.27	\$8,524,672
	2014	185	1,524	46,533,466	43,867,895	\$0.31	\$13,599,047
	2015	220	2,011	54,324,326	46,294,465	\$0.31	\$14,351,284

Notes: Weights reported in whole fish pounds; discards at sea excluded. Totals by area may not match number of vessels by gear type in Tables 11, 14, and 17 because a vessel used more than one gear type.

^a GHL = Guideline Harvest Level (millions of pounds)

^b Chignik Area jig vessel harvest excluded in 2006, 2008–2010, 2014, and 2015 due to confidentiality.

^c Price per pound calculated from whole fish pounds sold, excluding bait and meal.

Table 10.–Kodiak Area state-waters Pacific cod season openings by gear type, 1997–2015.

	Pot Gear	Jig Gear
1997	<i>Fishery Dates:</i> April 4–May 4 September 1–December 31 <i>Management Actions:</i> May 4 - Pot gear season closed when GHL was attained September 1 - Allocation rollover; pot gear season reopened October 31 - Gear limits and exclusive registration lifted	April 4–December 31
1998	<i>Fishery Dates:</i> March 17–April 27 September 1–December 31 <i>Management Actions:</i> April 27 - Pot gear season closed when GHL was attained September 1 - Allocation rollover; pot gear season reopened October 31 - Gear limits and exclusive registration lifted	March 17–December 31
1999	<i>Fishery Dates:</i> March 21–April 29 October 5–December 31 <i>Management Actions:</i> April 29 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season October 5 - Pot and jig gear seasons reopened following federal CGOA B-season closure October 31 - Gear limits and exclusive registration lifted	March 21–September 1 October 5–December 31
2000	<i>Fishery Dates:</i> March 11–December 31 <i>Management Actions:</i> October 31 - Gear limits and exclusive registration lifted	March 11–December 31
2001	<i>Fishery Dates:</i> March 11–December 31 <i>Management Actions:</i> October 31 - Allocation rollover; gear limits and exclusive registration lifted	March 11–December 31
2002	<i>Fishery Dates:</i> March 16–May 4 September 1–December 31 <i>Management Actions:</i> May 4 - Pot gear season closed when GHL was attained September 1 - Allocation rollover; pot gear season reopened October 31 - Gear limits and exclusive registration lifted	March 16–December 31

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Table 10.–Page 2 of 3.

	Pot Gear	Jig Gear
2003	<i>Fishery Dates:</i> February 16–March 2 <i>Management Actions:</i> March 2 - Pot gear season closed when GHL was attained May 9 - Jig gear season closed when GHL was attained	February 16–May 9
2004	<i>Fishery Dates:</i> February 7–February 22 <i>Management Actions:</i> February 22 - Pot gear season closed when GHL was attained April 20 - Jig gear season closed when GHL was attained	February 7–April 20
2005	<i>Fishery Dates:</i> February 2–February 13 <i>Management Actions:</i> February 13 - Pot gear season closed when GHL was attained April 21 - Jig gear season closed when GHL was attained	February 2–April 21
2006	<i>Fishery Dates:</i> March 7–March 29 <i>Management Actions:</i> March 29 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 7–September 1
2007	<i>Fishery Dates:</i> March 6–April 8 <i>Management Actions:</i> April 8 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 6–September 1
2008	<i>Fishery Dates:</i> February 27–March 26 October 5–November 22 <i>Management Actions:</i> March 26 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B-season October 5 - Allocation rollover; pot and jig gear seasons reopened following federal CGOA B-season closure November 22 - Pot and jig gear seasons closed when GHL was attained	February 27–September 1 October 5–November 22

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Table 10.–Page 3 of 3.

	Pot Gear	Jig Gear
2009	<i>Fishery Dates:</i> February 3–February 18 <i>Management Actions:</i> February 18 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B-season October 3 - Allocation rollover; jig gear season reopened following federal CGOA B-season closure	February 3–September 1 October 3–December 31
2010	<i>Fishery Dates:</i> February 7–February 23 <i>Management Actions:</i> February 23 - Pot gear season closed when GHL was attained June 5 - Jig gear season closed when GHL was attained	February 7–June 5
2011	<i>Fishery Dates:</i> February 5–February 18 <i>Management Actions:</i> February 18 - Pot gear season closed when GHL was attained April 14 - Jig gear season closed when GHL was attained	February 5–April 14
2012	<i>Fishery Dates:</i> February 17–March 1 <i>Management Actions:</i> March 1 - Pot gear season closed when GHL was attained May 23 - Jig gear season closed when GHL was attained October 12 - Allocation rollover; jig gear season reopened following federal CGOA B-season closure	March 8–May 23 October 12–December 31
2013	<i>Fishery Dates:</i> February 17–April 2 <i>Management Actions:</i> April 2 - Pot gear season closed when GHL was attained October 29 - Exclusive registration for jig gear lifted	March 15–December 31
2014	<i>Fishery Dates:</i> February 20–March 19 November 10–December 31 <i>Management Actions:</i> March 19 - Pot gear season closed when GHL was attained November 10 - Allocation rollover; pot gear season reopened following federal CGOA B-season closure; gear limits and exclusive registration lifted	March 15–December 31
2015	<i>Fishery Dates:</i> February 23–March 24 <i>Management Actions:</i> March 24 - Pot gear season closed when GHL was attained	March 4– December 31

Notes: GHL = Guideline Harvest Level, CGOA = Central Gulf of Alaska

Table 11.—Kodiak Area state-waters Pacific cod effort and harvest, in pounds, by gear type, 1997–2015.

Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
1997	Jig	4,249,410	73	484	1,979,077	\$0.23
	Pot	4,249,410	38	243	5,769,129	\$0.22
1998	Jig	4,057,608	88	662	2,114,685	\$0.23
	Pot	4,057,608	47	310	6,070,139	\$0.22
1999 ^d	Jig	5,860,989	113	793	2,294,837	\$0.38
	Pot	5,860,989	77	471	8,492,710	\$0.32
2000	Jig	6,000,707	139	1,226	2,814,481	\$0.40
	Pot	6,000,707	69	481	5,748,334	\$0.39
2001	Jig	5,325,542	69	433	1,252,692	\$0.36
	Pot	5,325,542	34	236	3,591,049	\$0.33
2002	Jig	4,365,153	51	340	1,389,838	\$0.28
	Pot	4,365,153	33	212	7,436,013	\$0.29
2003	Jig	3,995,878	100	688	3,195,605	\$0.35
	Pot	3,995,878	42	149	4,959,262	\$0.32
2004	Jig	4,932,843	120	961	4,210,284	\$0.34
	Pot	4,932,843	47	161	5,823,605	\$0.29
2005	Jig	4,563,155	117	849	4,570,327	\$0.33
	Pot	4,563,155	51	162	3,977,835	\$0.30
2006	Jig	5,218,480	77	477	1,446,881	\$0.43
	Pot	5,218,480	41	169	4,883,637	\$0.41
2007	Jig	5,218,480	63	457	1,249,753	\$0.52
	Pot	5,218,480	33	182	5,157,212	\$0.41
2008	Jig	5,222,338	76	647	2,042,082	\$0.61
	Pot	5,222,338	37	341	8,506,792	\$0.59
2009	Jig	4,343,244	94	833	4,450,423	\$0.32
	Pot	4,343,244	38	138	4,141,054	\$0.32
2010	Jig	6,757,444	81	707	6,504,733	\$0.30
	Pot	6,757,444	36	173	7,061,573	\$0.25
2011	Jig	7,415,248	132	980	7,135,466	\$0.35
	Pot	7,415,248	46	190	8,132,657	\$0.35
2012	Jig	7,845,701	145	1,159	7,936,707	\$0.38
	Pot	7,845,701	46	196	7,477,802	\$0.38

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Table 11.–Page 2 of 2.

Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
2013	Jig	6,791,340	55	199	587,942	\$0.26
	Pot	6,791,340	34	242	6,689,382	\$0.26
2014	Jig	7,316,583	77	518	3,149,000	\$0.35
	Pot	7,316,583	28	233	9,176,488	\$0.30
2015	Jig	8,449,216	100	809	3,877,899	\$0.36
	Pot	8,449,216	30	236	8,300,600	\$0.34

Notes: Weights reported in whole fish pounds; discards at sea excluded.

^a GHL = Guideline Harvest Level (millions of pounds)

^b Harvest may include landings made after allocation rollovers.

^c Price per pound calculated from whole fish pounds sold, excluding bait and meal.

^d Beginning in 1999, vessels >58' using pot gear are capped at 25% of the total GHL prior to September 1.

Table 12.—Kodiak Area state-waters season Pacific cod effort and harvest, in pounds, all gear combined, by statistical area, 2015.

Statistical area	Vessels	Landings ^a	Harvest
515801	3	9	701,474
525701	31	75	634,837
525703	13	43	757,194
525731	76	318	1,813,467
525733	75	275	1,576,008
525802	7	16	260,586
525803	5	7	32,786
525805	11	15	136,411
525806	27	49	314,373
525834	3	12	661,349
535631	8	17	157,179
535634	5	13	372,782
535703	11	31	309,325
535706	3	5	41,210
535732	38	80	827,251
535733	15	34	252,647
535734	7	10	33,921
535803	14	25	277,233
545632	10	14	190,614
545633	5	9	72,631
545703	3	13	546,438
545734	4	14	275,527
545802	4	12	411,348
545803	3	13	436,750
555731	3	6	297,318
Other ^b	12	23	787,839
Total	127	1,045	12,178,499

Notes: Weights reported in whole fish pounds; discards at sea excluded.

^a Landings may involve multiple statistical areas.

^b A total of 9 statistical areas combined due to confidentiality.

Table 13.–Chignik Area state-waters Pacific cod season openings by gear type, 1997–2015.

	Pot Gear	Jig Gear
1997	<i>Fishery Dates:</i> April 15–June 15 August 1–December 31 <i>Management Actions:</i> August 1 - Pot and jig gear seasons reopened to harvest remaining GHL October 31 - Vessel size limit, gear limits, and exclusive registration lifted	April 15–June 15 August 1–December 31
1998	<i>Fishery Dates:</i> April 1–April 26 <i>Management Actions:</i> April 26 - Pot and jig gear seasons closed when pot GHL was attained May 20 - Jig gear season reopened	April 1–April 26 May 20–December 31
1999	<i>Fishery Dates:</i> April 15–September 1 October 5–December 31 <i>Management Actions:</i> September 1 - Pot and jig gear seasons closed for parallel B season October 5 - Pot and jig gear seasons reopened following federal CGOA B-season closure October 31 - Vessel size limit, gear limits and exclusive registration lifted	April 15–September 1 October 5–December 31
2000	<i>Fishery Dates:</i> April 15–December 31 <i>Management Actions:</i> October 31 - Vessel size limit and gear limits lifted	April 15–December 31
2001	<i>Fishery Dates:</i> March 11–December 31 <i>Management Actions:</i> October 31 - Vessel size limit and gear limits lifted	March 11–December 31
2002	<i>Fishery Dates:</i> March 1–December 31 <i>Management Actions:</i> October 31 - Vessel size limit and gear limits lifted	March 1–December 31
2003	<i>Fishery Dates:</i> March 1–April 11 <i>Management Actions:</i> April 11 - Pot gear season closed when GHL was attained June 4 - Jig gear season closed when GHL was attained	March 1–June 4

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Table 13.–Page 2 of 4.

	Pot Gear	Jig Gear
2004	<i>Fishery Dates:</i> March 1–May 13 August 15–December 31 <i>Management Actions:</i> May 13 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened October 31 - Vessel size limit and gear limits lifted	March 1–December 31
2005	<i>Fishery Dates:</i> March 1–May 10 August 15–December 31 <i>Management Actions:</i> May 10 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened October 31 - Vessel size limit and gear limits lifted	March 1–December 31
2006	<i>Fishery Dates:</i> March 1–September 1 <i>Management Actions:</i> August 15 - Allocation rollover September 1 - Pot and jig gear seasons closed for parallel B season	March 1–September 1
2007	<i>Fishery Dates:</i> March 1–September 1 <i>Management Actions:</i> August 15 - Allocation rollover September 1 - Pot and jig gear seasons closed for parallel B season	March 1–September 1
2008	<i>Fishery Dates:</i> March 1–April 17 August 15–September 1 October 5–December 31 <i>Management Actions:</i> April 17 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened September 1 - Pot and jig gear seasons closed for parallel B season October 5 - Pot and jig gear seasons reopened following federal CGOA B-season closure November 4 - Vessel size limit and gear limits lifted	March 1–September 1 October 5–December 31

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Table 13.–Page 3 of 4.

	Pot Gear	Jig Gear
2009	<i>Fishery Dates:</i> March 1–April 8 August 15–September 1 October 3–December 31 <i>Management Actions:</i> April 8 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened September 1 - Pot and jig gear seasons closed for parallel B season October 3 - Pot and jig gear seasons reopened following federal CGOA B-season closure	
2010	<i>Fishery Dates:</i> March 1–April 6 August 15–September 1 September 13–December 31 <i>Management Actions:</i> April 6 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened September 1 - Pot and jig gear seasons closed for parallel B season September 13 - Pot and jig gear seasons reopened following federal CGOA B-season closure	
2011	<i>Fishery Dates:</i> March 1–March 17 August 15–September 1 October 9–December 31 <i>Management Actions:</i> March 17 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened September 1 - Pot and jig gear seasons closed for parallel B season October 9 - Pot and jig gear seasons reopened following federal CGOA B-season closure	
2012	<i>Fishery Dates:</i> March 7–March 28 October 12–December 31 <i>Management Actions:</i> March 28 - Pot gear season closed when GHL was attained June 10 - Jig gear seasons closed for parallel B season June 29 - Jig gear season reopened following federal CGOA jig B-season closure October 12 - Allocation rollover; pot gear season reopened following federal CGOA pot B-season closure	
2013	<i>Fishery Dates:</i> March 7–March 29 <i>Management Actions:</i> March 29 - Pot gear season closed when GHL was attained	

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Table 13.–Page 4 of 4.

	Pot Gear	Jig Gear
2014	<i>Fishery Dates:</i> March 1–March 19 August 15–October 7 <i>Management Actions:</i> March 19 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened October 7 - Pot gear seasons closed for parallel B season	March 15–December 31
2015	<i>Fishery Dates:</i> March 1–March 23 August 15–December 31 <i>Management Actions:</i> March 23 - Pot gear season closed when GHL was attained August 15 - Allocation rollover; pot gear season reopened	March 15–December 31

Notes: GHL = Guideline Harvest Level, CGOA = Central Gulf of Alaska

Table 14.—Chignik Area state-waters Pacific cod effort and harvest, in pounds, by gear type, 1997–2015.

Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
1997	Jig	5,949,174 ^d	4	14	35,002	\$0.18
	Pot		10	60	1,098,970	\$0.18
1998	Jig	5,680,652 ^d	11	59	167,283	\$0.18
	Pot		32	236	5,440,796	\$0.17
1999	Jig	8,205,384 ^d	11	56	218,408	\$0.32
	Pot		32	396	6,207,176	\$0.29
2000	Jig	1,008,119	5	12	38,453	\$0.31
	Pot	5,712,673	20	151	1,756,305	\$0.30
2001	Jig	894,691	13	55	277,411	\$0.27
	Pot	5,069,916	15	124	2,371,243	\$0.26
2002	Jig	733,346	14	59	324,199	\$0.20
	Pot	4,155,625	12	139	3,903,320	\$0.20
2003	Jig	671,308	16	106	433,067	\$0.28
	Pot	3,804,076	15	151	4,034,504	\$0.26
2004	Jig	1,035,897	14	53	141,697	\$0.24
	Pot	5,870,083	17	244	5,608,763	\$0.23
2005	Jig	638,842	9	44	136,948	\$0.24
	Pot	5,749,576	15	206	5,650,595	\$0.25
2006	Jig	730,587	2	4	Confidential	Confidential
	Pot	6,575,284	12	202	3,439,521	\$0.34
2007	Jig	730,587	0	0	0	ND
	Pot	6,575,284	16	241	5,700,861	\$0.45
2008	Jig	731,127	2	3	Confidential	Confidential
	Pot	6,580,145	23	262	6,838,934	\$0.56
2009	Jig	608,054	1	1	Confidential	Confidential
	Pot	5,472,488	11	122	5,679,676	\$0.24
2010	Jig	946,042	2	24	Confidential	Confidential
	Pot	8,514,379	15	160	9,153,719	\$0.24
2011	Jig	1,038,135	10	45	224,400	\$0.32
	Pot	9,343,213	23	199	10,122,456	\$0.32
2012	Jig	1,098,398	6	15	266,638	\$0.30
	Pot	9,885,583	20	189	10,229,969	\$0.35

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Table 14.–Page 2 of 2.

Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
2013	Jig	950,788	0	0	0	ND
	Pot	8,557,088	19	191	8,712,190	\$0.25
2014	Jig	1,024,322	2	3	Confidential	Confidential
	Pot	9,218,894	12	154	9,593,269	\$0.28
2015	Jig	1,182,890	2	6	Confidential	Confidential
	Pot	10,646,013	17	207	10,248,382	\$0.27

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels participated. ND = No Data

^a GHL = Guideline Harvest Level (millions of pounds)

^b Harvest may include landings made after allocation rollovers.

^c Price per pound calculated from whole fish pounds sold, excluding bait and meal.

^d Total GHL; no GHL allocation by gear type during 1997–1999 seasons.

Table 15.—Chignik Area state-waters season Pacific cod effort and harvest, in pounds, all gear combined, by statistical area, 2015.

Statistical Area	Vessels	Landings ^a	Harvest ^b
565602	3	28	1,906,951
565632	4	19	724,836
575603	5	11	679,423
585531	8	44	2,795,860
585601	6	43	1,217,066
595531	4	20	445,814
Other ^c	7	55	2,478,433
Total	19	213	10,248,382

Notes: Weights reported in whole fish pounds; discards at sea excluded.

^a Some landings involve multiple statistical areas.

^b Harvest is from pot gear only; jig gear harvest is confidential.

^c Total of 5 statistical area combined due to confidentiality.

Table 16.–South Alaska Peninsula Area state-waters Pacific cod season openings by gear type, 1997–2015.

	Pot Gear	Jig Gear
1997	<i>Fishery Dates:</i> April 4–December 22 <i>Management Actions:</i> October 31 - Vessel size limit, gear limits, and exclusive registration lifted December 22 - Pot and jig gear seasons closed when GHL was attained	April 4–December 22
1998	<i>Fishery Dates:</i> March 10–April 16 <i>Management Actions:</i> April 16 - Pot gear season closed when GHL was attained	March 10–December 31
1999	<i>Fishery Dates:</i> March 15–April 11 October 31–December 31 <i>Management Actions:</i> April 11 - Pot gear season closed when GHL was attained October 31 - Allocation rollover; reopened pot gear season November 10 - Gear limits lifted	March 15–December 31
2000	<i>Fishery Dates:</i> March 11–April 8 <i>Management Actions:</i> April 8 - Pot gear season closed when GHL was attained September 19 - Jig gear season closed when GHL was attained	March 11–September 19
2001	<i>Fishery Dates:</i> March 6–April 13 <i>Management Actions:</i> April 13 - Pot gear season closed when GHL was attained June 12 - Jig gear season closed when GHL was attained	March 6–June 12
2002	<i>Fishery Dates:</i> March 5–March 24 <i>Management Actions:</i> March 24 - Pot gear season closed when GHL was attained April 26 - Jig gear season closed when GHL was attained	March 5–April 26
2003	<i>Fishery Dates:</i> February 24–March 11 <i>Management Actions:</i> March 11 - Pot gear season closed when GHL was attained April 22 - Jig gear season closed when GHL was attained	February 24–April 22

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	Pot Gear	Jig Gear
2004	<i>Fishery Dates:</i> March 2–March 24 <i>Management Actions:</i> March 24 - Pot gear season closed when GHL was attained April 14 - Jig gear season closed when GHL was attained	March 2–April 14
2005	<i>Fishery Dates:</i> March 3–March 24 <i>Management Actions:</i> March 24 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 3–September 1
2006	<i>Fishery Dates:</i> March 9–March 29 April 4– April 7 <i>Management Actions:</i> March 29 - Pot gear season closed when GHL was expected to be attained April 4 - Pot gear season reopened April 7 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 9–September 1
2007	<i>Fishery Dates:</i> March 15–April 17 <i>Management Actions:</i> April 17 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 15–September 1
2008	<i>Fishery Dates:</i> March 7–April 1 <i>Management Actions:</i> April 1 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 7–September 1
2009	<i>Fishery Dates:</i> March 4–April 4 <i>Management Actions:</i> April 4 - Pot gear season closed when GHL was attained September 1 - Jig gear season closed for parallel B season	March 4–September 1
2010	<i>Fishery Dates:</i> March 5–March 23 <i>Management Actions:</i> March 23 - Pot gear season closed when GHL was attained May 27 - Jig gear season closed when GHL was attained	March 5–May 27

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	Pot Gear	Jig Gear
2011	<i>Fishery Dates:</i> February 25–March 11 <i>Management Actions:</i> March 11 - Pot gear season closed when GHL was attained April 26 - Jig gear season closed when GHL was attained	February 25–April 26
2012	<i>Fishery Dates:</i> March 7–March 22 <i>Management Actions:</i> March 21 - Jig gear season opened; weather delay March 19–20 March 22 - Pot gear season closed when GHL was attained June 10 - Jig gear season closed for parallel B season	March 21–June 10
2013	<i>Fishery Dates:</i> March 9–March 22 <i>Management Actions:</i> March 9 - Pot gear season opened; weather delay March 7–8 March 22 - Pot gear season closed when GHL was attained July 16 - Jig gear season closed for parallel B season	March 15–July 16
2014	<i>Fishery Dates:</i> March 7–March 24 <i>Management Actions:</i> March 20 - Jig gear season opened; weather delay March 15–19 March 24 - Pot gear season closed when GHL was attained May 16 - Jig gear season closed for parallel B season	March 20–May 16
2015	<i>Fishery Dates:</i> March 7–March 31 <i>Management Actions:</i> March 18 - Jig gear season opened; weather delay March 15–18 March 31 - Pot gear season closed when GHL was attained	March 18–December 31

Notes: GHL = Guideline Harvest Level

Table 17.—South Alaska Peninsula Area state-waters Pacific cod effort and harvest, in pounds, by gear type, 1997–2015.

Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
1997	Jig	9,424,762 ^d	43	178	349,468	\$0.17
	Pot		51	469	9,097,805	\$0.19
1998	Jig	1,352,205	29	126	438,320	\$0.16
	Pot	7,662,497	49	309	8,192,803	\$0.17
1999	Jig	1,953,737	25	166	706,952	\$0.29
	Pot	11,071,174	52	388	11,115,028	\$0.26
2000	Jig	2,273,517	28	145	757,953	\$0.28
	Pot	12,883,263	65	505	14,286,151	\$0.30
2001	Jig	2,017,230	69	417	3,402,427	\$0.24
	Pot	11,430,968	55	311	10,421,593	\$0.25
2002	Jig	1,857,257	63	318	2,045,894	\$0.24
	Pot	10,524,455	49	276	10,669,572	\$0.21
2003	Jig	1,703,071	65	413	3,633,007	\$0.27
	Pot	9,650,736	41	191	7,927,656	\$0.27
2004	Jig	1,869,244	51	317	1,671,461	\$0.23
	Pot	10,592,385	43	277	10,770,980	\$0.23
2005	Jig	1,729,196	40	262	1,230,517	\$0.25
	Pot	9,798,776	39	267	10,206,340	\$0.25
2006	Jig	2,220,193	12	36	99,552	\$0.36
	Pot	12,581,092	43	350	11,640,183	\$0.36
2007	Jig	2,220,193	14	59	254,178	\$0.47
	Pot	12,581,092	46	406	12,423,973	\$0.47
2008	Jig	2,143,885	52	310	1,401,011	\$0.57
	Pot	12,148,683	48	390	11,901,039	\$0.56
2009	Jig	1,783,016	26	185	1,093,382	\$0.23
	Pot	10,103,758	47	329	10,500,742	\$0.26
2010	Jig	2,288,812	34	294	2,315,081	\$0.25
	Pot	12,969,933	38	240	12,973,186	\$0.25
2011	Jig	2,511,616	42	271	2,443,043	\$0.28
	Pot	14,232,492	49	280	14,363,262	\$0.29
2012	Jig	2,317,499	48	345	1,989,884	\$0.34
	Pot	13,132,496	53	299	13,366,884	\$0.34

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Year	Gear	GHL ^a	Vessels	Landings	Harvest ^b	Price Per Pound ^c
2013	Jig	2,338,002	38	281	2,198,511	\$0.27
	Pot	13,248,680	37	248	13,384,834	\$0.27
2014	Jig	3,248,563	39	295	3,143,144	\$0.28
	Pot	18,408,522	38	321	18,805,994	\$0.29
2015	Jig	3,839,549	35	323	2,215,841	\$0.27
	Pot	21,757,443	42	436	21,651,744	\$0.28

Notes: Weights reported in whole fish pounds; discards at sea excluded.

^a GHL = Guideline Harvest Level (millions of pounds)

^b Harvest may include landings made after allocation rollovers.

^c Price per pound calculated from whole fish pounds sold, excluding bait and meal.

^d Total GHL; no GHL allocation by gear type during 1997 season.

Table 18.—South Alaska Peninsula Area state-waters season Pacific cod effort and harvest, in pounds, all gear combined, by statistical area, 2015.

Statistical Area	Vessels	Landings ^a	Harvest
595502	3	10	788,454
595503	6	13	207,807
595533	4	15	138,920
605432	5	21	1,942,892
605501	14	41	375,467
605502	19	93	4,501,341
605504	25	112	1,267,278
605506	4	8	20,915
605507	26	158	1,108,663
605531	3	3	51,707
615508	5	6	57,566
625401	5	43	3,198,290
625431	3	26	456,645
635432	5	30	961,602
635434	11	110	3,963,955
645406	5	5	214,598
665302	3	29	2,589,622
Other ^b	20	61	2,021,862
Total	76	759	23,867,584

Notes: Weights reported in whole fish pounds; discards at sea excluded.

^a Some landings include multiple statistical areas.

^b Total of 15 statistical areas combined due to confidentiality.

Table 19.—Kodiak Area black rockfish jig season effort, harvest in pounds, and price per pound, 1990–2015.

Year ^a	Vessels	Landings	GHL	Harvest	Price Per Pound ^b
1990	2	8	NA	Confidential	Confidential
1991	55	317	NA	782,133	\$0.25
1992	34	167	NA	476,623	\$0.24
1993	14	58	NA	105,244	\$0.24
1994	23	126	NA	116,724	\$0.37
1995	33	183	NA	311,455	\$0.44
1996	43	167	NA	301,798	\$0.46
1997	51	297	NA	221,167	\$0.38
1998	64	348	190,000	196,548	\$0.33
1999	70	300	185,000	128,008	\$0.42
2000	72	260	185,000	245,891	\$0.44
2001	36	168	185,000	213,629	\$0.50
2002	25	123	185,000	196,166	\$0.43
2003	33	90	185,000	84,237	\$0.36
2004	37	125	185,000	122,303	\$0.39
2005	23	85	175,000	116,726	\$0.40
2006	25	97	175,000	123,443	\$0.42
2007	21	96	175,000	135,386	\$0.41
2008	17	91	175,000	132,325	\$0.53
2009	18	90	175,000	122,249	\$0.41
2010	12	74	175,000	103,698	\$0.39
2011	21	67	175,000	124,900	\$0.39
2012	19	53	135,000	80,940	\$0.41
2013	20	62	135,000	141,226	\$0.45
2014	17	74	125,000	109,053	\$0.41
2015	26	120	125,000	112,292	\$0.44

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels participated. GHL = Guideline Harvest Level, NA = Not Applicable

^a Prior to 1998, black rockfish were under federal management.

^b Price per pound based on whole fish pounds sold, excluding bait and meal.

Table 20.—Chignik Area black rockfish jig season effort, harvest in pounds, and price per pound, 1990–2015.

Year ^a	Vessels	Landings	GHL	Harvest	Price Per Pound ^b
1990	0	0	NA	0	ND
1991	0	0	NA	0	ND
1992	0	0	NA	0	ND
1993	0	0	NA	0	ND
1994	0	0	NA	0	ND
1995	5	6	NA	25,125	\$0.49
1996	11	25	NA	201,825	\$0.36
1997	9	39	NA	80,741	\$0.23
1998	10	30	100,000	87,712	\$0.28
1999	10	30	100,000	11,305	\$0.25
2000	7	14	100,000	95,572	\$0.43
2001	13	33	100,000	102,316	\$0.41
2002	7	15	100,000	81,015	\$0.41
2003	10	40	100,000	46,598	\$0.42
2004	6	26	100,000	99,122	\$0.27
2005	7	16	100,000	49,721	\$0.40
2006	2	4	100,000	Confidential	Confidential
2007	2	7	100,000	Confidential	Confidential
2008	1	4	100,000	Confidential	Confidential
2009	2	2	100,000	Confidential	Confidential
2010	1	5	100,000	Confidential	Confidential
2011	1	1	100,000	Confidential	Confidential
2012	1	1	100,000	Confidential	Confidential
2013	0	0	100,000	0	ND
2014	1	1	100,000	Confidential	Confidential
2015	0	0	100,000	0	ND

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels participated. GHL = Guideline Harvest Level, NA = Not Applicable, ND = No Data

^a Prior to 1998, black rockfish were under federal management.

^b Price per pound based on whole fish pounds sold, excluding bait and meal.

Table 21.—South Alaska Peninsula Area Eastern District black rockfish jig season effort, harvest in pounds, and price per pound, 1990–2015.

Year ^a	Vessels	Landings	GHL	Harvest	Price Per Pound ^b
1990	0	0	NA	0	ND
1991	1	1	NA	Confidential	Confidential
1992	0	0	NA	0	ND
1993	0	0	NA	0	ND
1994	0	0	NA	0	ND
1995	8	49	NA	120,745	\$0.33
1996	19	78	NA	150,188	\$0.25
1997	9	32	NA	109,076	\$0.34
1998	6	18	100,000	84,145	\$0.29
1999	9	38	100,000	55,308	\$0.41
2000	20	73	100,000	94,797	\$0.35
2001	30	82	100,000	101,605	\$0.36
2002	9	30	100,000	102,114	\$0.29
2003	4	6	100,000	5,267	\$0.21
2004	15	24	100,000	8,925	\$0.26
2005	11	26	100,000	57,732	\$0.35
2006	3	8	75,000	7,015	\$0.37
2007	2	9	75,000	Confidential	Confidential
2008	0	0	75,000	0	ND
2009	3	3	75,000	705	\$0.25
2010	1	1	75,000	Confidential	Confidential
2011	1	2	75,000	Confidential	Confidential
2012	0	0	75,000	0	ND
2013	2	4	75,000	Confidential	Confidential
2014	0	0	75,000	0	ND
2015	1	1	75,000	Confidential	Confidential

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels participated. GHL = Guideline Harvest Level, NA = Not Applicable, ND = No Data

^a Prior to 1998, black rockfish were under federal management.

^b Price per pound based on whole fish pounds sold, excluding bait and meal.

Table 22.–Kodiak, Chignik, and South Alaska Peninsula areas black rockfish regulatory development, 1997–2015.

Year	Regulation
Pre-1997	– Black rockfish managed by NMFS
1997	– NPFMC removed black rockfish from Pelagic Shelf Rockfish Group – State-waters managed separately from federal waters: Kodiak Area GHL established at 170,000 pounds; Chignik Area and SAP Area Eastern District GHLS established at 100,000 pounds
1998	– State assumed management authority from NMFS for black rockfish in the Exclusive Economic Zone – Kodiak and Chignik areas and SAP Eastern District established as non-exclusive registration areas – Kodiak Area divided into seven districts each with separate GHLS
2003	– Kodiak Area: regulation stating that vessels may not be concurrently registered for black rockfish and Pacific cod established – Kodiak Area trip limit established at 5,000 pounds per five days – Chignik Area designated superexclusive registration area – Chignik Area divided into three management districts
2005	– SAP Area Eastern District divided into three management sections – Kodiak Area incidental trip limit of 2,500 pounds established for vessels fishing during other directed jig groundfish fisheries in Kodiak Area – Kodiak Area logbooks mandated
2007	– Kodiak Area Northeast, Afognak, and Southeast districts incidental trip limit reduced from 2,500 to 1,000 pounds
2011	– Kodiak Area Rockfish Management Plan revised: incidental trip limits repealed and replaced with bycatch percentages established by EO; trip limit increased from 5,000 to 7,000 pounds after August 14 by EO; reporting requirements and trip limits for catcher processors established
2012	– Kodiak Area Southwest and Mainland district GHLS eliminated; harvest as bycatch only

Notes: NMFS = National Marine Fisheries Service; NPFMC = North Pacific Fishery Management Council; GHL = Guideline Harvest Level; SAP = South Alaska Peninsula; EO = Emergency Order

Table 23.—Kodiak, Chignik, and South Alaska Peninsula areas black rockfish harvest in pounds, by district, 2015.

Area/District	Harvest				Directed fishery closure date
	GHL	Directed	Bycatch	Total	
Kodiak Area					
Afognak	35,000	28,289	4,230	32,519	June 2
Northeast	20,000	15,796	5,540	21,336	March 23
Eastside	30,000	25,727	3,990	29,717	April 6
Southeast	30,000	25,307	1,897	27,205	December 31
Southwest	Bycatch only	0	Confidential	Confidential	NA
Westside	10,000	435	1,080	1,515	December 31
Mainland	Bycatch only	0	0	0	NA
Total	125,000	95,724	16,567	112,292	
Chignik Area					
Sutwik Island	45,000	0	0	0	December 31
Chignik Bay	45,000	0	0	0	December 31
Mitrofanina	45,000	0	0	0	December 31
Total	100,000	0	0	0	
South Alaska Peninsula Area					
Eastern	75,000	0	Confidential	Confidential	December 31

Notes: Weights reported in whole fish pounds; discards at sea excluded. Data are confidential when fewer than 3 vessels or processors participated. GHL = Guideline Harvest Level; NA = Not Applicable

Table 24.—Kodiak, Chignik, and South Alaska Peninsula areas lingcod harvest in pounds, by gear type, 1988–2015.

Year	Jig	Longline	Pot	Trawl	Total
1988	59	43	0	136,191	136,294
1989	69	0	0	14,324	14,394
1990	1,418	158	402	8,839	10,816
1991	8,375	501	386	663	9,925
1992	5,569	4,261	72	10,897	20,799
1993	0	511	0	4,778	5,289
1994	4,820	803	0	229	5,852
1995	34,574	3,467	79	1,191	39,311
1996	43,403	7,878	0	10,929	62,209
1997	12,637	6,499	4,251	5,267	28,654
1998	5,756	1,771	0	3,514	11,041
1999	1,358	3,802	4,189	4,593	13,941
2000	3,400	6,734	2,676	2,127	14,938
2001	527	4,063	3,597	5,688	13,875
2002	29	6,131	2,749	5,380	14,290
2003	229	9,740	0	5,069	15,037
2004	2,990	6,865	205	16,731	26,791
2005	772	18,831	7,983	14,078	41,663
2006	289	16,028	20,127	12,670	49,114
2007	35	28,058	32,024	45,420	105,538
2008	1,518	31,637	21,278	466,826	521,259
2009	373	28,112	3,614	65,182	97,281
2010	812	31,204	1,935	33,594	67,545
2011	123	25,045	14,962	82,323	122,454
2012	297	18,815	69,657	69,683	158,453
2013	0	14,341	19,222	29,166	62,729
2014	0	11,285	23,949	34,148	69,382
2015	0	5,098	12,822	44,669	62,589

Notes: Weights reported in whole fish pounds; discards at sea excluded.

Table 25.—Central Gulf of Alaska (CGOA) and Western Gulf of Alaska (WGOA) walleye pollock fishery openings, 2010–2015.

NMFS Area	2010	2011	2012	2013	2014	2015
Area 630 (CGOA)	Jan 20–Jan 22	Jan 20–Jan 21	Jan 20–Jan 23	Jan 20–Jan 22	Jan 20–Mar 9	Jan 20–Mar 9
	Feb 11–Feb 11	Feb 28–Mar 1	Feb 16–Feb 25	Feb 8–Feb 22	Mar 10–Mar 31	Mar 10–Apr 16
	Mar 9–Mar 11	Mar 7–Mar 12	Mar 10–Mar 10	Mar 10–Mar 10	Aug 25–Sep 23	Aug 25–Sep 28
	Aug 25–Aug 26	Aug 25–Aug 27	Mar 21–Mar 24	Mar 22–Mar 26	Oct 1–Nov 1	Oct 1–Nov 1
	Sep 29–Oct 1	Sep 4–Sep 9	Aug 25–Oct 20	Aug 25–Sep 16		
		Oct 1–Nov 1		Oct 1–Oct 8		
				Oct 22–Nov 11		
Area 620 (CGOA)	Jan 20–Mar 6	Jan 20–Feb 25	Jan 20–Feb 27	Jan 20–Feb 24	Jan 20–Mar 9	Jan 20–Mar 9
	Mar 10–Mar 14	Mar 10–Mar 22	Mar 10–Mar 17	Mar 10–Mar 17	Mar 10–Apr 10	Mar 10–May 25
	Aug 25–Aug 26	Aug 25–Sep 4	Aug 25–Sep 18	Aug 25–Sep 13	Aug 25–Sep 16	Aug 25–Sep 30
	Sep 29–Oct 4	Oct 1–Nov 1	Oct 24–Nov 1	Oct 1–Oct 6	Oct 1–Nov 1	Oct 1–Oct 28
				Oct 22–Nov 11		
Area 610 (WGOA)	Jan 20–Jan 22	Jan 20–Jan 23	Jan 20–Mar 10	Jan 20–Mar 30	Jan 20–Mar 9	Jan 20–Mar 9
	Mar 1–Mar 3	Feb 27–Mar 28	Mar 10–Apr 1	Aug 25–Nov 11	Mar 10–Jun 1	Mar 10–Apr 14
	Mar 10–Mar 12	Aug 25–Sep 17	Aug 25–Sep 10		Aug 25–Sept 30	Aug 25–Sept 30
	Aug 25–Aug 31	Oct 10–Nov 1	Oct 1–Oct 12		Oct 1–Nov 1	Oct 1–Nov 3
	Oct 1–Oct 6		Oct 19–Oct 23			

Notes: NMFS = National Marine Fisheries Service

Table 26.—Central Gulf of Alaska walleye pollock effort and harvest, in millions of pounds, 1995–2015.

NMFS area	Year	Vessels	Landings	Harvest	State Waters Harvest (%) ^a	Discards at sea
Central GOA	1995	108	810	74.02	12.2	1.3
	1996	84	904	50.35	28.4	1.6
	1997	107	1,528	121.28	31.3	1.9
	1998	119	1,702	206.64	34.1	0.4
	1999	101	1,293	148.12	27.3	0.5
	2000	60	1,108	106.09	4.2	0.5
	2001	74	1,160	86.88	20.6	0.3
	2002	72	838	70.90	43.3	0.2
	2003	61	730	71.86	23.1	0.2
	2004	57	772	86.64	36.5	0.4
	2005	53	820	102.90	23.1	0.3
	2006	48	988	96.69	29.0	0.2
	2007	42	894	72.65	25.8	0.3
	2008	47	990	71.48	31.6	1.0
	2009	43	821	53.71	34.7	0.6
	2010	50	1,028	101.31	23.3	1.0
	2011	56	1,061	121.74	9.5	1.7
	2012	70	1,262	154.03	18.0	1.6
	2013	66	1,381	182.78	14.1	3.0
	2014	63	1,761	278.37	8.0	1.1
	2015	60	1,746	292.38	16.6	1.0

Notes: Harvest reported in whole fish pounds; discards at sea excluded from all columns except the *Discards at sea* column. GOA = Gulf of Alaska; NMFS = National Marine Fisheries Service

^a Percent of total walleye pollock harvested in state waters (0–3 nmi)

Table 27.—Western Gulf of Alaska walleye pollock effort and harvest, in millions of pounds, 1995–2015.

NMFS area	Year	Vessels	Landings	Harvest	State Waters Harvest (%) ^a	Discards at sea
Western GOA	1995	92	351	65.69	34.0	0.8
	1996	56	319	52.06	59.8	0.8
	1997	84	333	62.47	31.9	0.7
	1998	84	362	65.70	58.4	0.1
	1999	80	432	52.82	52.9	0.3
	2000	49	419	47.33	78.9	0.1
	2001	51	548	67.53	74.0	0.1
	2002	45	316	38.14	49.0	0.2
	2003	41	262	37.04	54.5	0.1
	2004	32	350	50.86	60.9	0.1
	2005	36	502	67.85	49.4	0.1
	2006	38	499	53.78	61.8	0.2
	2007	38	413	38.15	52.7	0.1
	2008	29	340	32.75	34.2	0.0
	2009	35	309	30.68	68.2	0.1
	2010	38	561	57.05	58.2	0.1
	2011	35	502	44.98	52.6	0.2
	2012	45	696	60.15	72.6	0.3
	2013	40	402	16.81	57.0	0.2
	2014	34	586	28.75	41.7	0.4
	2015	33	790	63.01	28.0	0.0

Notes: Harvest reported in whole fish pounds; discards at sea excluded from all columns except the *Discards at sea* column. GOA = Gulf of Alaska; NMFS = National Marine Fisheries Service

^a Percent of total walleye pollock harvested in state waters (0–3 nmi)

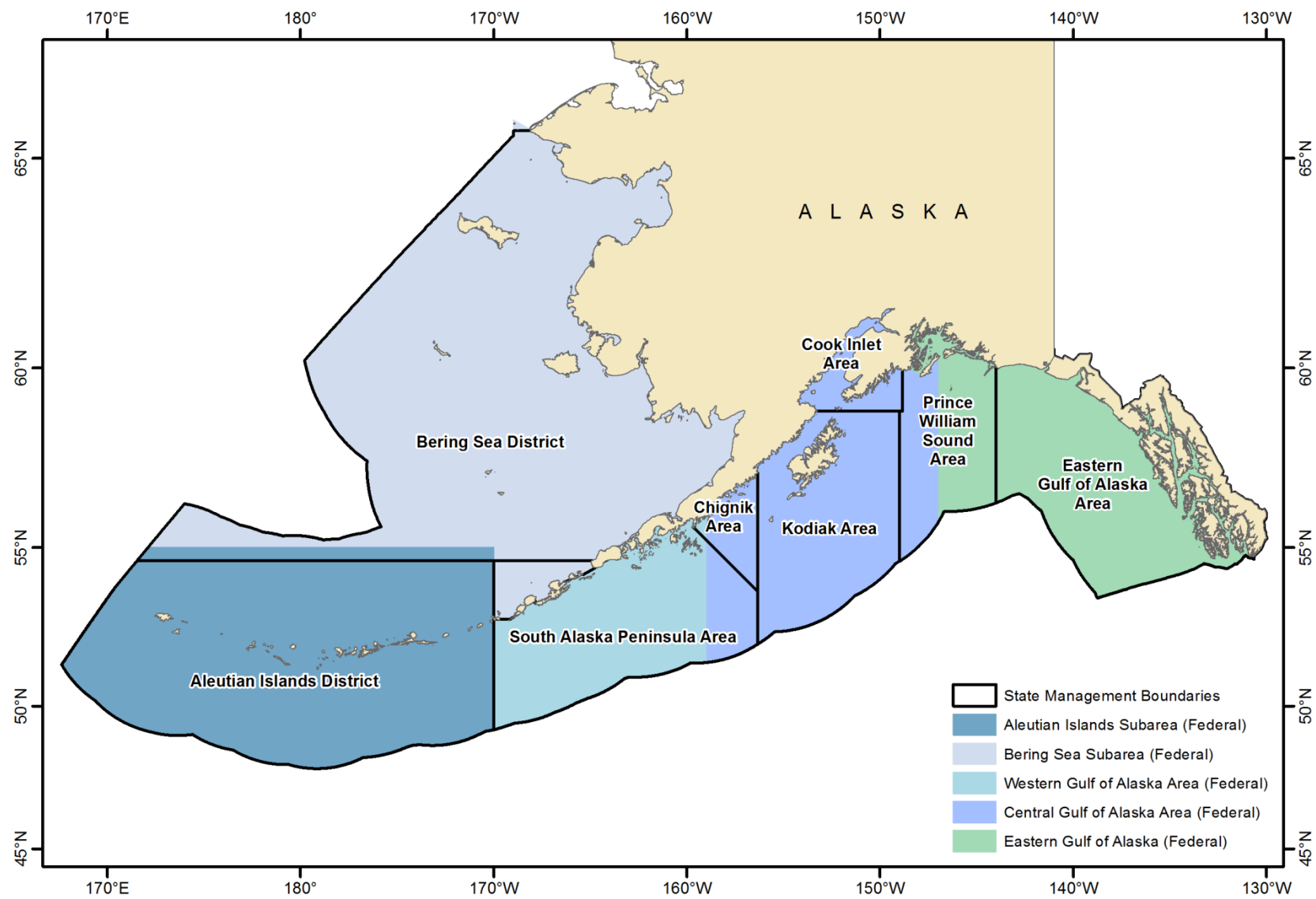


Figure 1.—Alaska Department of Fish and Game and National Marine Fisheries Service groundfish management areas.

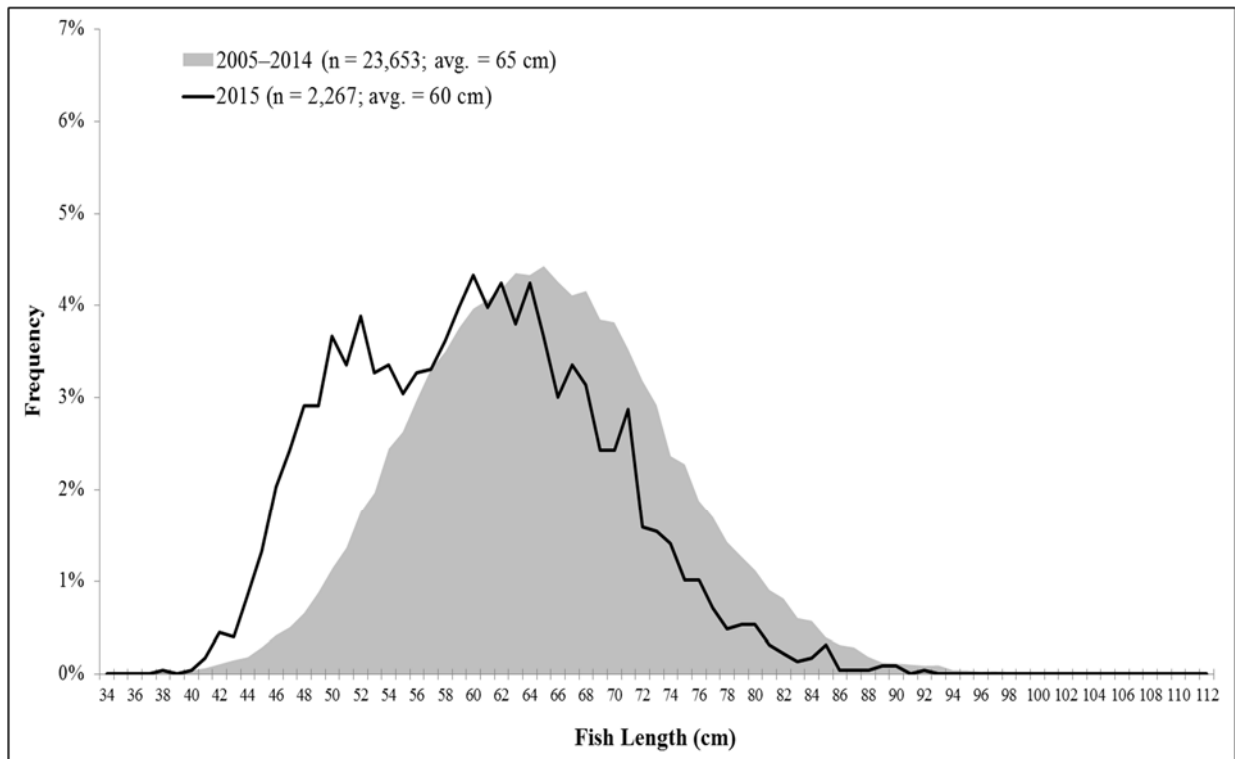


Figure 2.—Kodiak Area Pacific cod length frequency from state-waters fisheries, 2005–2015.

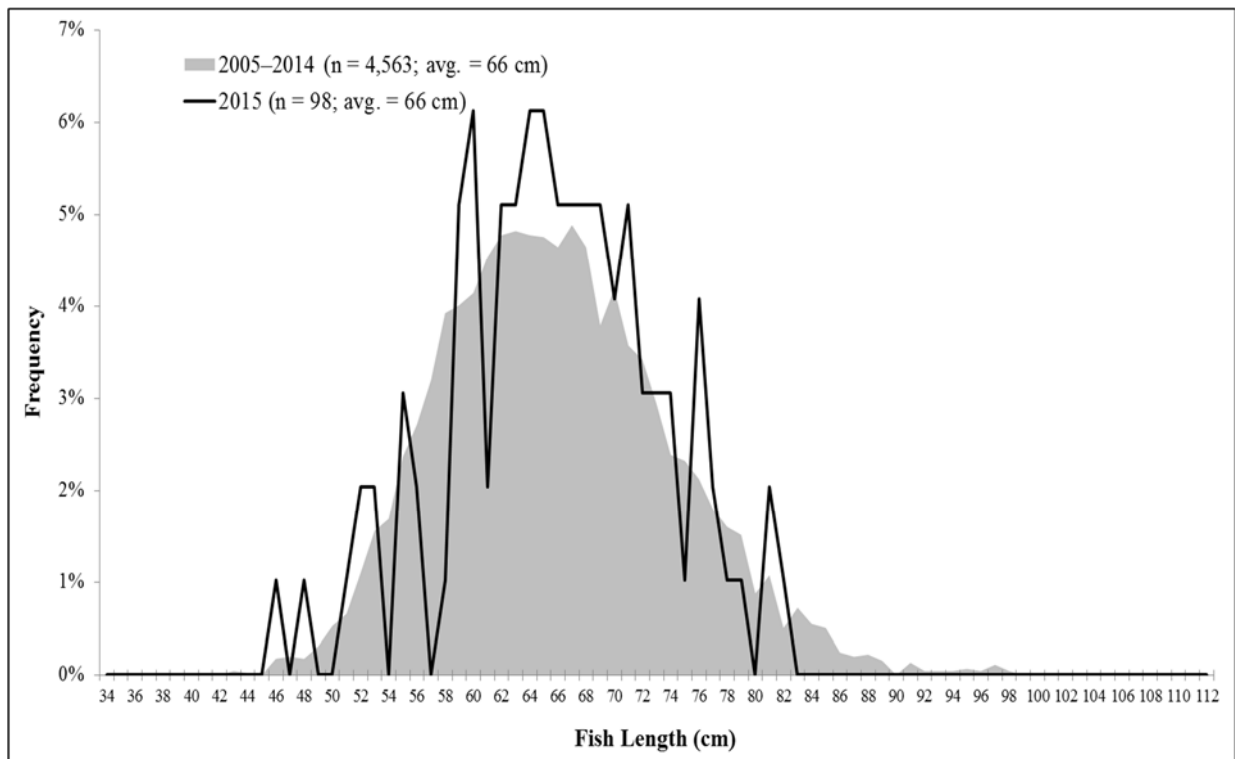


Figure 3.—Chignik Area Pacific cod length frequency from state-waters fisheries, 2005–2015.

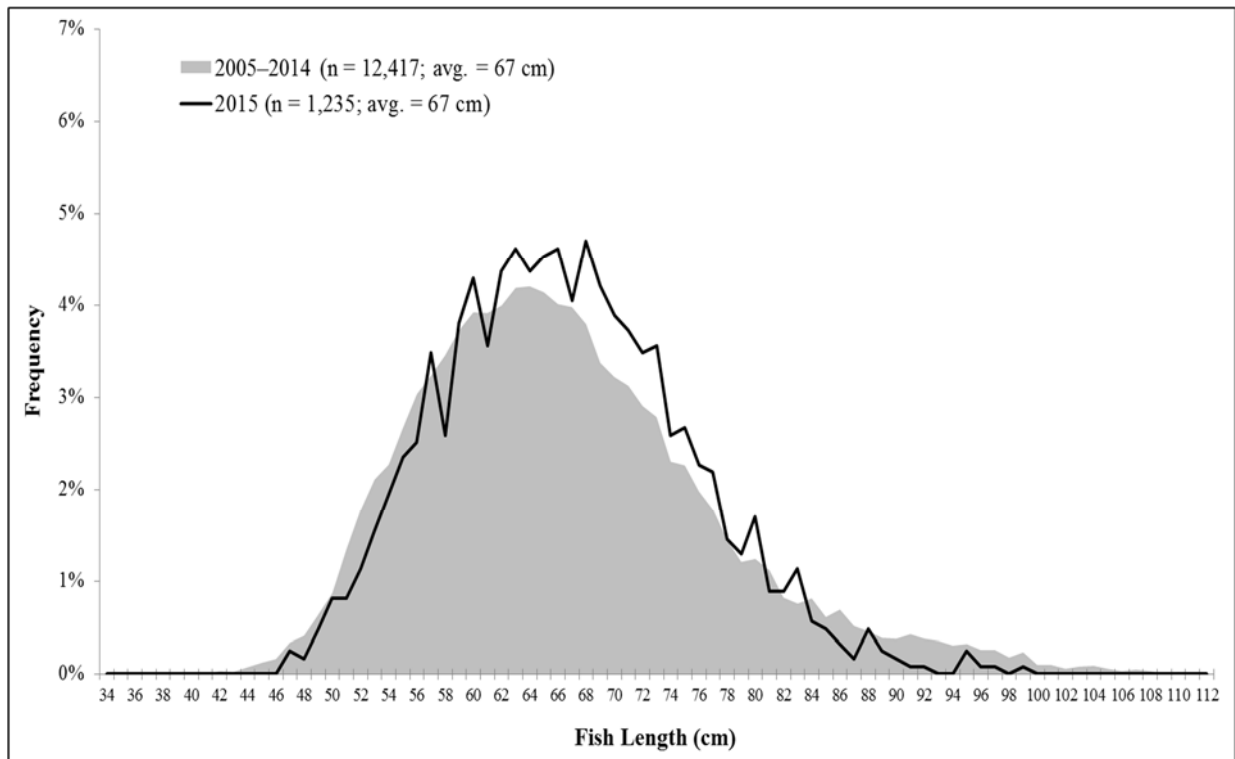


Figure 4.—South Alaska Peninsula Area Pacific cod length frequency from state-waters fisheries, 2005–2015.

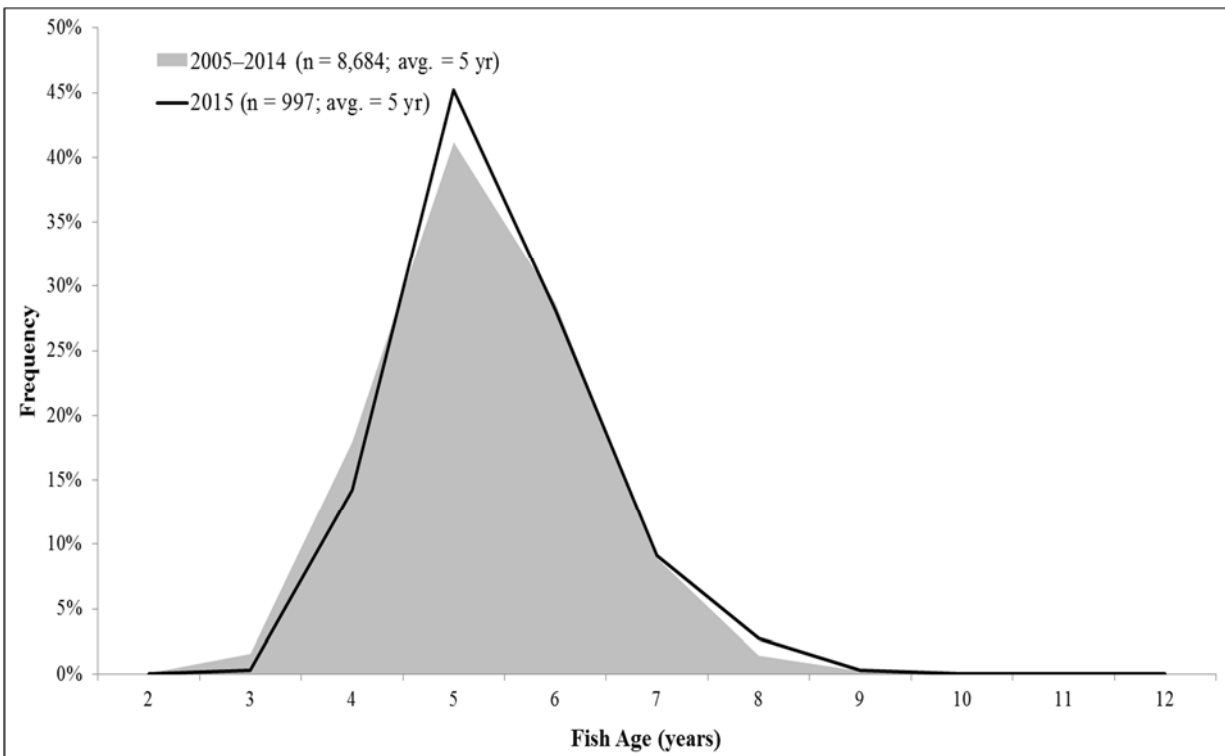


Figure 5.—Kodiak Area Pacific cod age composition from the state-waters fisheries, 2005–2015.

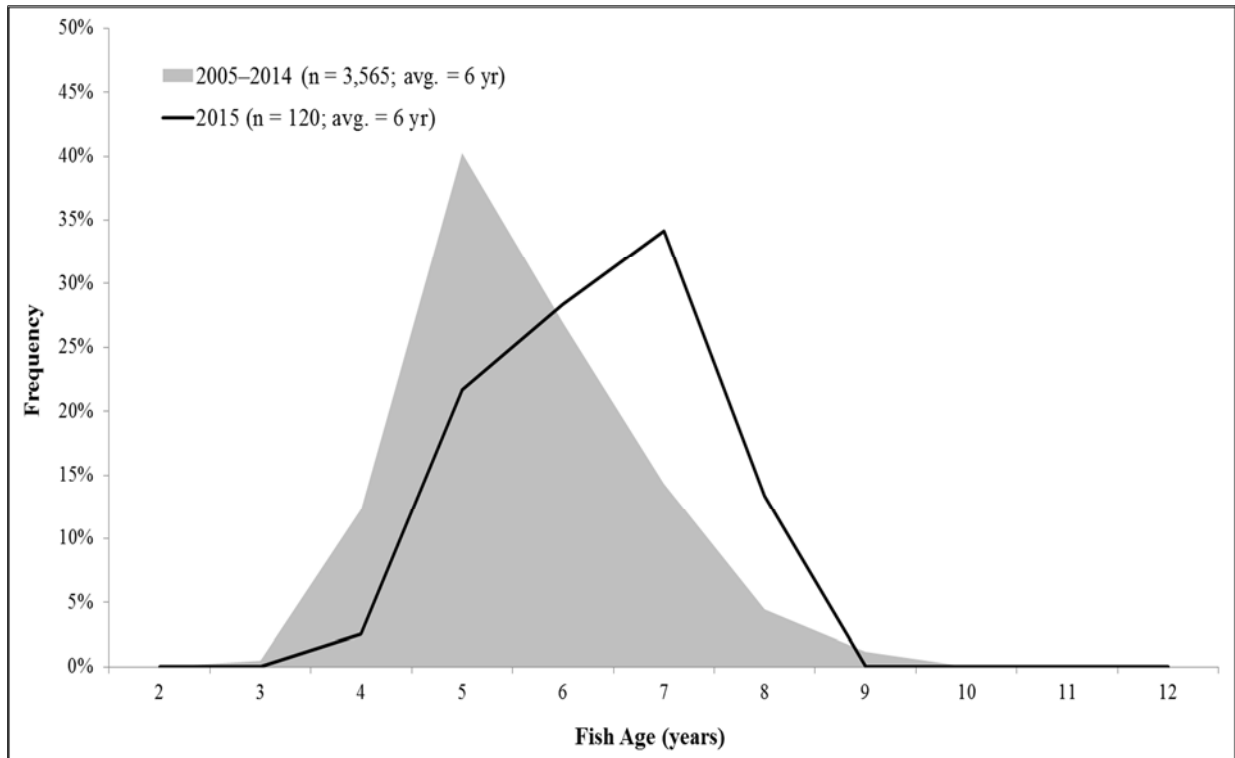


Figure 6.—Chignik Area Pacific cod age composition from the state-waters fisheries, 2005–2015.

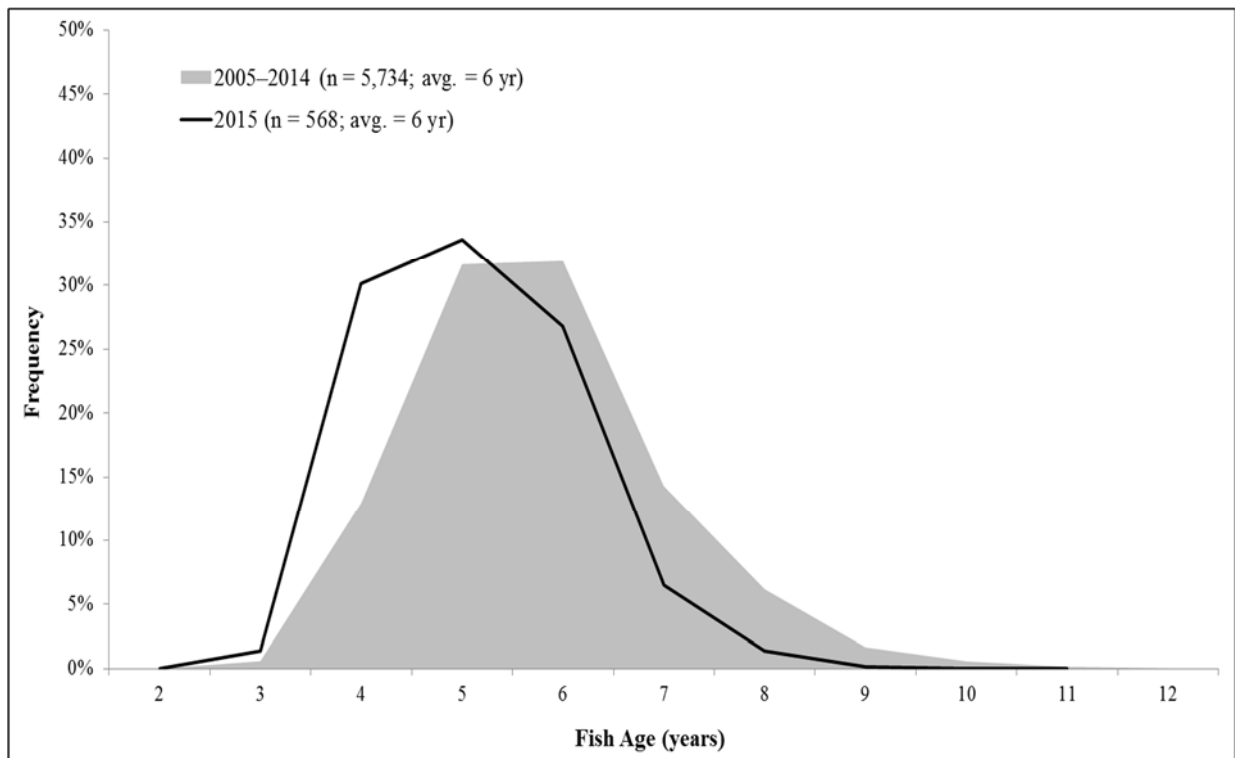


Figure 7.—South Alaska Peninsula Area Pacific cod age composition from the state-waters fisheries, 2005–2015.

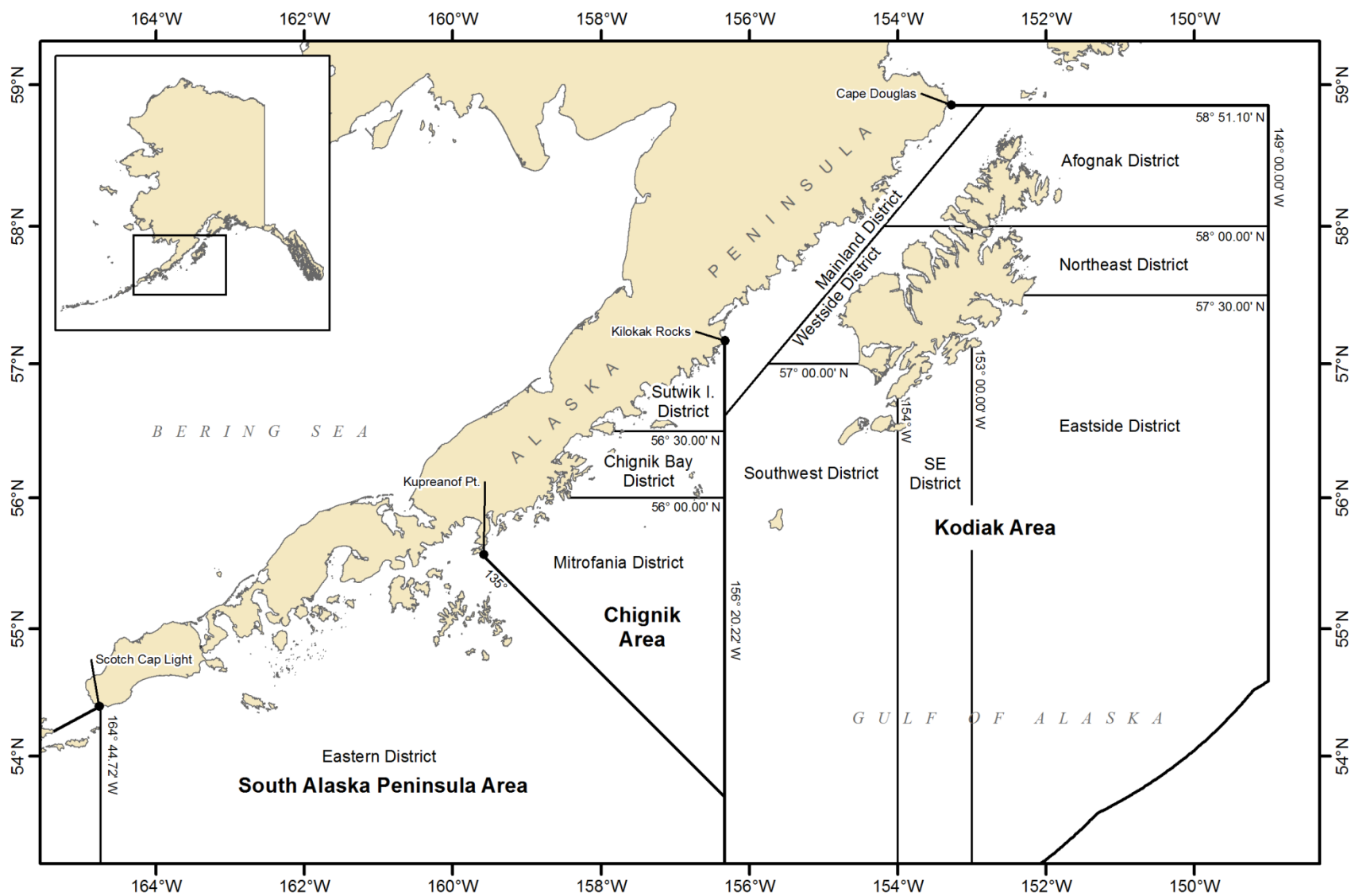


Figure 8.—Kodiak, Chignik, and South Alaska Peninsula black rockfish management areas and districts.

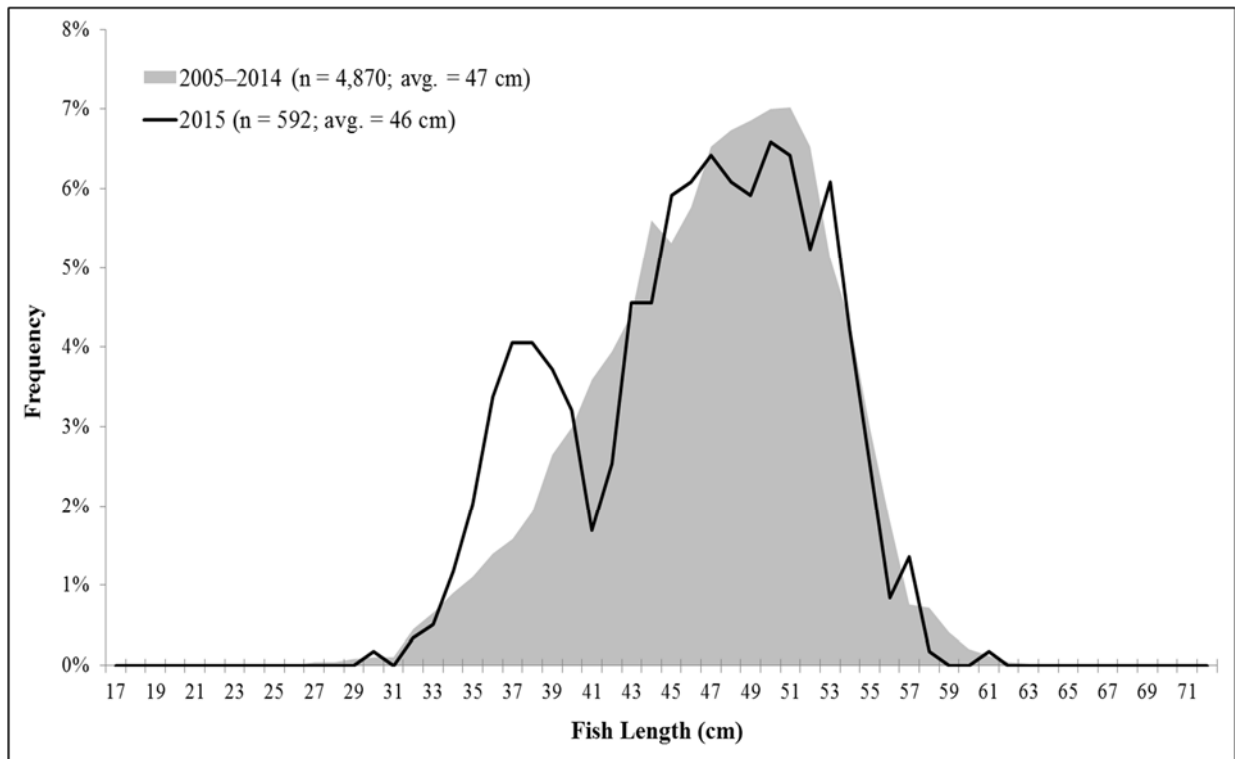


Figure 9.—Kodiak Area black rockfish length frequency from directed fisheries, 2005–2015.

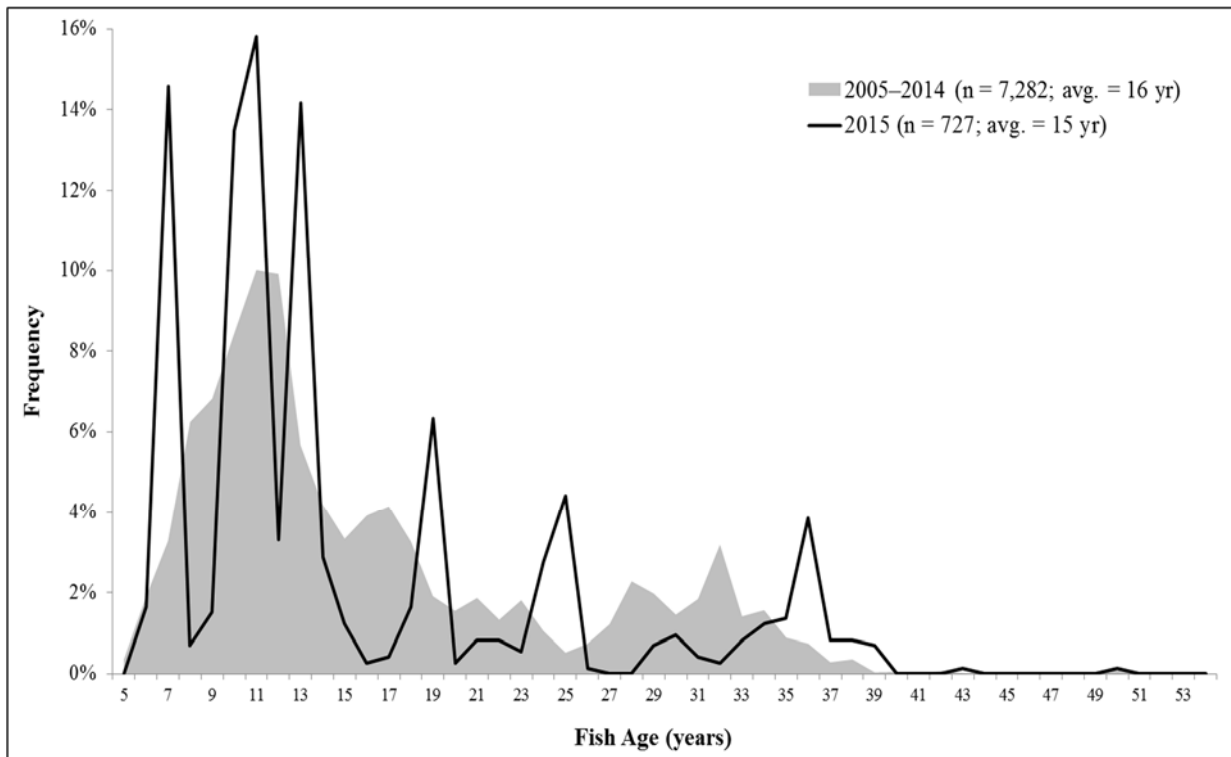


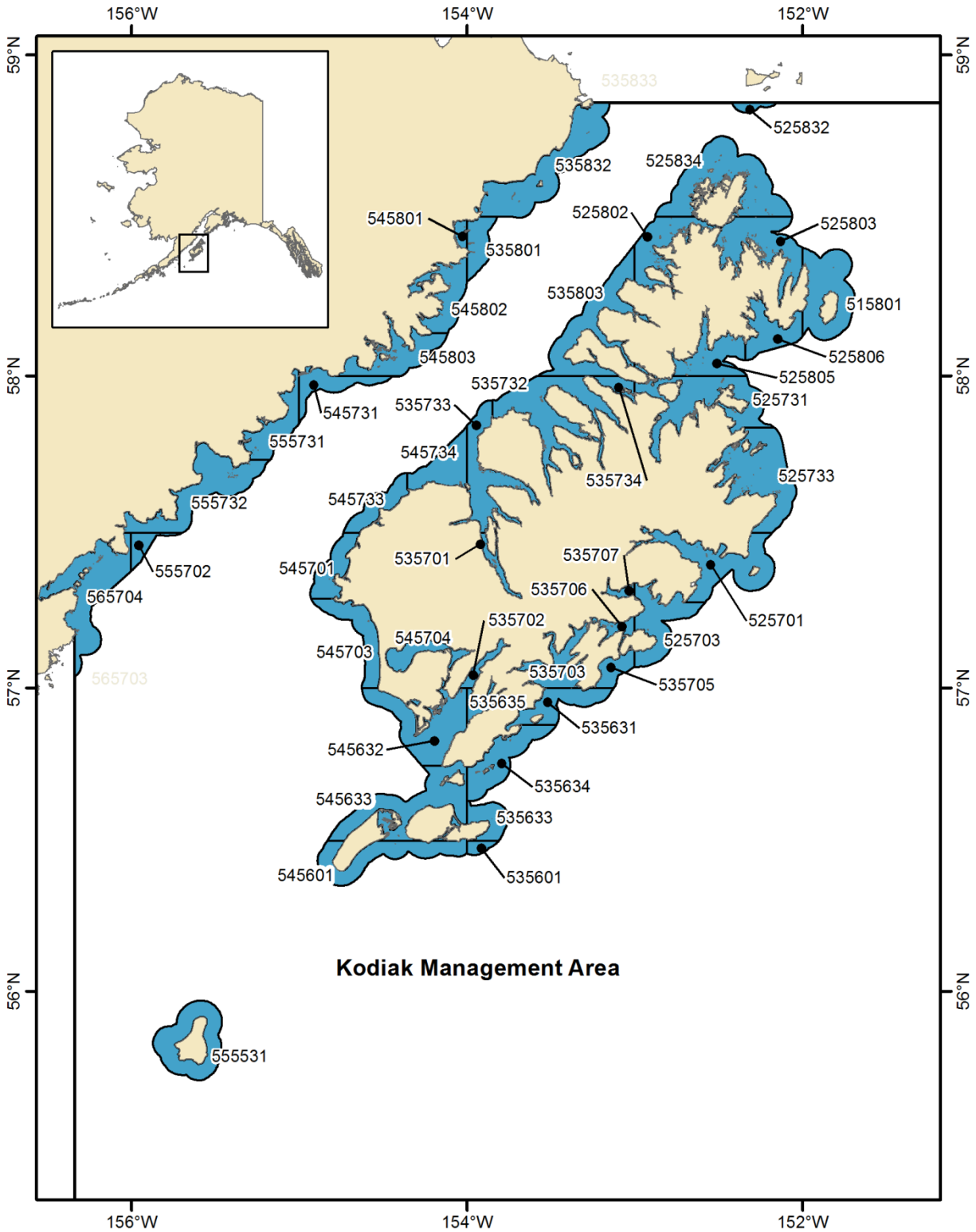
Figure 10.—Kodiak Area black rockfish age composition from directed fisheries, 2005–2015.

APPENDIX A. FREQUENTLY USED ACRONYMS AND KEY WORDS

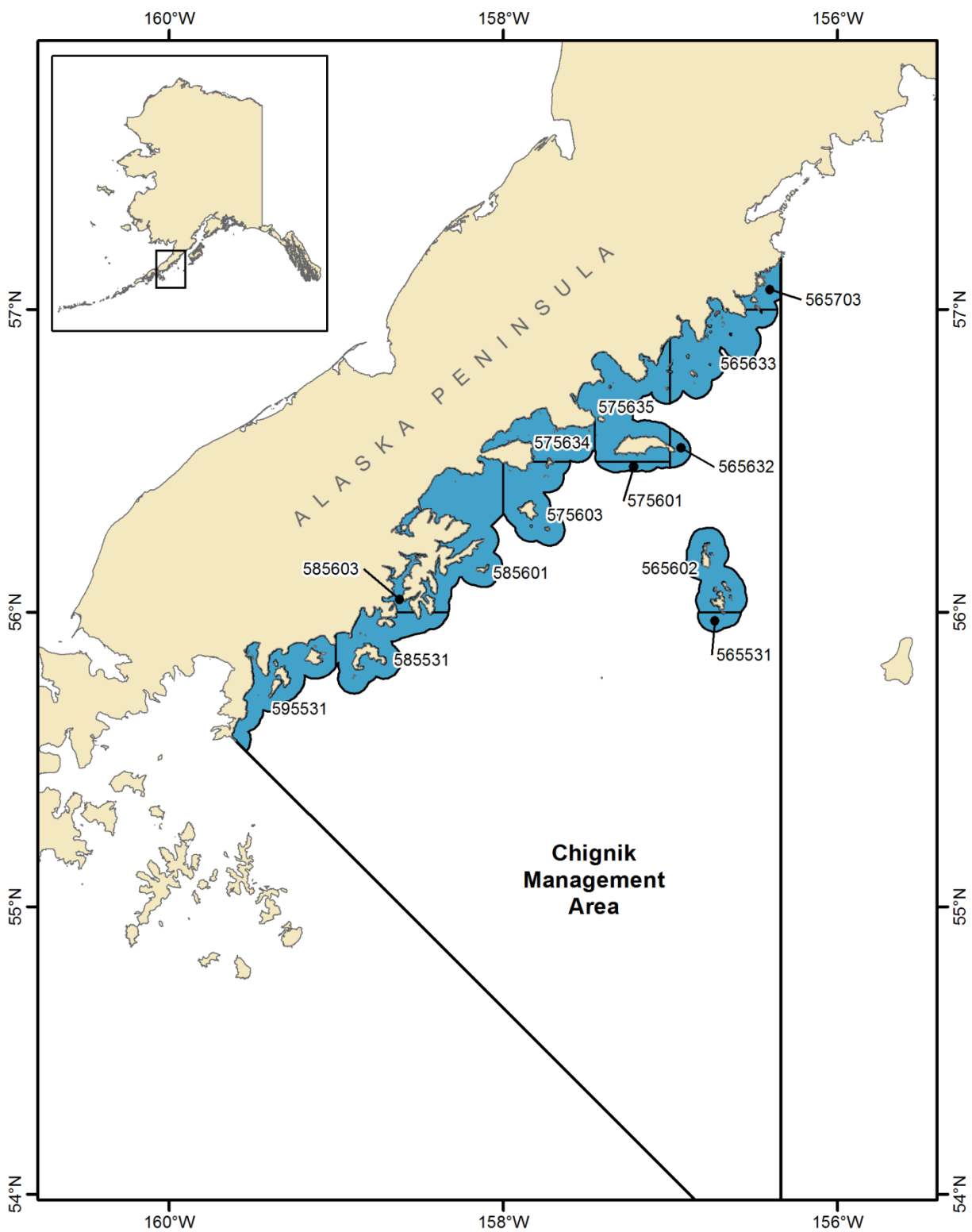
Appendix A1.–Frequently used acronyms and key words.

<u>Acronym</u>	<u>Definition</u>
ABC	Acceptable Biological Catch, stock specification as set by NPFMC on an annual basis
ADF&G	Alaska Department of Fish and Game
BOF	Alaska Board of Fisheries
BSAI	Bering Sea-Aleutian Islands Area, state management area or federal management area
CGOA	Central Gulf of Alaska, federal management areas 620 and 630
EEZ	Exclusive Economic Zone, federal waters from 3 to 200 nautical miles offshore
EGOA	Eastern Gulf of Alaska, federal management areas 640 and 650
EO	Emergency Order, management action taken by ADF&G to affect regulatory change
GHL	Guideline Harvest Level
GOA	Gulf of Alaska
LLP	Federal License Limitation Program
mt	Metric ton (1 mt = 2,204.6 lb)
NMFS	National Marine Fisheries Service
NPFMC	North Pacific Fishery Management Council
Parallel fishery	Fishery occurring from 0 to 3 nautical miles opened by the state under federal rules while a federal fishery is ongoing from 3 to 200 nautical miles
SAP	South Alaska Peninsula
SSL	Steller sea lion
State waters	Territorial sea from 0 to 3 nautical miles offshore
State-waters fishery	Fishery occurring from 0 to 3 nautical miles open under Alaska Board of Fisheries regulations and managed exclusively by Alaska Department of Fish and Game
TAC	Total Allowable Catch, final federal harvest specification for directed fishing as recommended by NPFMC and set by NMFS
WGOA	Western Gulf of Alaska, federal management area 610

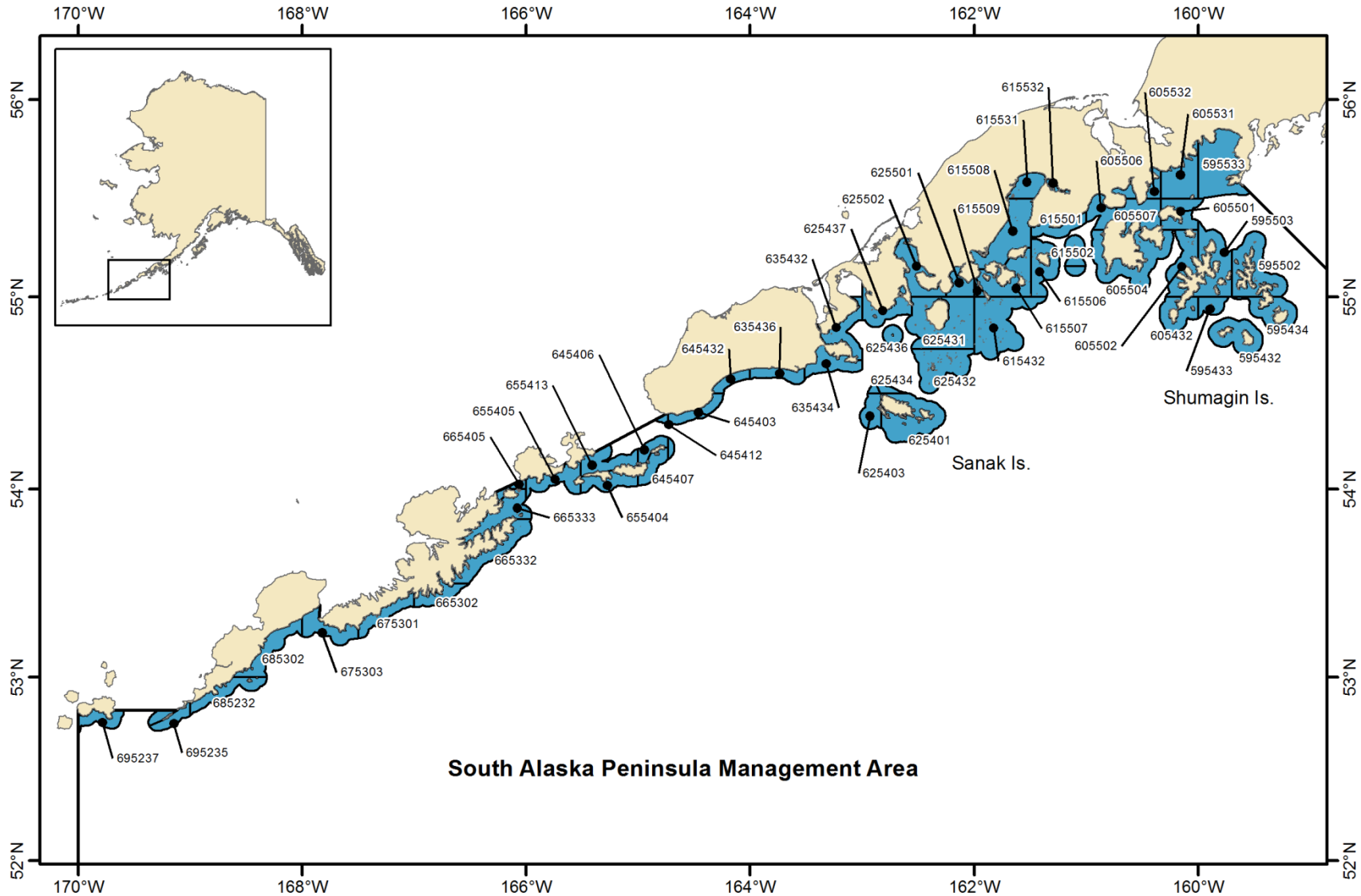
**APPENDIX B. KODIAK, CHIGNIK, AND SOUTH ALASKA
PENINSULA MANAGEMENT AREAS STATE-WATERS
STATISTICAL AREAS FOR GROUND FISH**



Appendix B1.—Kodiak Management Area state-waters statistical areas for groundfish.



Appendix B2.—Chignik Management Area state-waters statistical areas for groundfish.



Appendix B3.—South Alaska Peninsula Area state-waters statistical areas for groundfish.