

**Fishery Management Report No. 15-36**

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**Annual Summary of the 2014 Commercial and  
Personal Use Salmon Fisheries and Salmon  
Escapements, and the 2013 Subsistence Fisheries in the  
Alaska Peninsula, Aleutian Islands, and Atka-Amlia  
Islands Management Areas**

by

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and

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October 2015

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Alaska Department of Fish and Game

Divisions of Sport Fish and Commercial Fisheries



## Symbols and Abbreviations

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

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

***FISHERY MANAGEMENT REPORT NO. 15-36***

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USE SALMON FISHERIES AND SALMON ESCAPEMENTS, AND THE  
2013 SUBSISTENCE FISHERIES IN THE ALASKA PENINSULA,  
ALEUTIAN ISLANDS, AND ATKA-AMLIA ISLANDS MANAGEMENT  
AREAS**

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## ABSTRACT

This report summarizes the 2014 commercial salmon fisheries and personal use fisheries, the 2013 subsistence fisheries, and the 2014 salmon escapements of the Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands Management areas. The 2014 commercial salmon harvest in the Alaska Peninsula and Aleutian Islands (Area M) consisted of 8,187 Chinook *Oncorhynchus tshawytscha*, 3,391,330 sockeye *O. nerka*, 404,604 coho *O. kisutch*, 854,584 pink *O. gorbuscha*, and 630,220 chum salmon *O. keta*. The total exvessel value was approximately \$27,764,925. No harvest occurred in the Atka-Amlia Management Area (Area F) in 2014. Subsistence harvest information from 2013 is summarized in this report. Permits from 2014 are still being returned and will be reported next year. The 2014 North Alaska Peninsula Chinook salmon escapement of 8,590 fish was well below the most recent 10-year average (2004–2013) of 19,579 fish. The total 2014 sockeye salmon escapement for the Alaska Peninsula of 1,213,822 fish was above the 10-year average of 1,150,918 fish. The North Peninsula sockeye salmon escapements (1,176,152 fish) met or surpassed most escapement goals and was slightly above the 10-year average of 1,059,243 fish. The South Alaska Peninsula sockeye salmon escapement of 37,670 fish was well below the most recent 10-year average of 91,675 fish. Limited aerial surveys were flown for coho salmon on the Alaska Peninsula; therefore, total estimated escapements were not calculated. The South Alaska Peninsula pink salmon estimated escapement of 1,343,880 fish was below the 10-year average of 3,061,463 fish. The entire Alaska Peninsula chum salmon escapement of 559,726 fish was well below the most recent 10-year average of 952,964 fish.

**Key words:** Fishery management report, Aleutian Islands, Atka-Amlia Islands, Alaska Peninsula, Area M, Area F, exvessel value, escapement, aerial surveys, commercial salmon fishery, subsistence salmon fishery, personal use salmon fishery, Chinook salmon, *Oncorhynchus tshawytscha*, sockeye salmon, *Oncorhynchus nerka*, coho salmon, *Oncorhynchus kisutch*, pink salmon, *Oncorhynchus gorbuscha*, chum salmon, *Oncorhynchus keta*

## INTRODUCTION

This report is a summary of subsistence and commercial salmon harvest, exvessel value, and salmon escapement information for the Alaska Peninsula and Aleutian Islands (Area M) as well as Atka-Amlia Islands (Area F). The salmon harvest estimates reported in this document were summarized from the fish ticket database on February 15, 2015. Data published in this report supersede any data previously published. This report also provides historical information for comparison to recent harvest and escapement information. Further details of commercial harvests and escapements can be found in the following reports: North Alaska Peninsula Commercial Salmon Annual Management Report, 2014 (Johnson and Murphy 2015); South Alaska Peninsula Salmon Annual Management Report, 2014 (Keyse et al. 2015); and Aleutian Islands and Atka-Amlia Islands Management Areas Annual Salmon Management Report, 2014 (Wilburn & Keyse 2015). Appendices of this report contain reference information including exvessel value information (Appendix A), commercial harvest information (Appendix B), subsistence harvest information (Appendix C), escapement information (Appendix D), method for estimating total escapement (Appendix E), and an Alaska Department of Fish and Game (ADF&G) personnel list for the Alaska Peninsula (Appendix F). A separate report (Wattum 2015) will provide estimated 2014 catch and escapement age, sex, and length data information.

The Alaska Peninsula and Aleutian Islands Management Areas (collectively referred to as Area M) and the Atka-Amlia Management Area (Area F) are divided into 4 subareas: 1) the North Alaska Peninsula (5 AAC 09.100), consisting of Bering Sea waters extending west from Cape Menshikof to Cape Sarichef on Unimak Island; 2) the South Alaska Peninsula (5 AAC 09.100), consisting of Pacific Ocean coastal waters extending west of Kupreanof Point to Scotch Cap on Unimak Island; 3) the Aleutian Islands (5 AAC 12.100), consisting of the Bering Sea and Pacific Ocean waters of the Pribilof Islands and the Aleutian Islands west of Unimak Island and exclusive of the Atka-Amlia Management Area; and 4) the Atka-Amlia Management Area

(5 AAC 11.101), consisting of Bering Sea and Pacific Ocean waters extending west of Seguam Pass (172°50.00' W long) and east of Atka Pass (175°23.00' W long; Figure 1). Managers of each geographic region are responsible for reporting the harvest and escapement that occur within those boundaries.

There are 3 seasonally staffed ADF&G offices in the Alaska Peninsula Management Area located in Sand Point, Cold Bay, and Port Moller (Figure 2; Appendix F1). Historically, most of the Alaska Peninsula and Aleutian Islands commercial salmon fishery management was directed from the Cold Bay office. In 1990, the Sand Point staff assumed responsibility for managing salmon in the Southeastern District (Figure 3). In 1992, the Port Moller staff assumed responsibility for managing salmon in the Herendeen–Moller Bay, Port Moller Bight, Bear River, Three Hills, and Ilnik sections (Figure 4) of the Northern District. In 2005, the Port Moller staff also assumed responsibility for managing salmon in the Cinder River, Inner Port Heiden, Nelson Lagoon, and Black Hills sections (Figure 4). In 2005, management was restructured and the Sand Point Area Management Biologist assumed management of the Northwestern, Unimak, and Southwestern districts of the Alaska Peninsula with support from the Cold Bay office. The Aleutian Islands and Atka-Amlia Islands Management Areas salmon fisheries are managed cooperatively by staff in Cold Bay and Sand Point (Figures 2–6) with assistance from the Dutch Harbor office. The balance of the South Alaska Peninsula portion of Area M is managed from the Sand Point office.

## COMMERCIAL FISHERIES

A list of commercial salmon statistical areas is provided in Appendix A1 for reference to the ADF&G statistical maps and the electronic fish ticket database. Physical descriptions of the districts and sections are given in 5 AAC 09.200, 5AAC 11.101, and 5AAC 12.200. Legal salmon gear types allowed in the Alaska Peninsula Management Area include seine, drift gillnet, and set gillnet (5 AAC 09.330). Portions of the Alaska Peninsula Management Area are closed to one or two of the three gear types. Purse, beach, and hand seines are the only legal commercial fishing method for salmon in the Aleutian Islands Management Area (5 AAC 12.330). In the Atka-Amlia Area, salmon may be taken by purse seine and set gillnet only (5 AAC 11.333).

Commercial salmon fisheries in the Alaska Peninsula Area date back to at least 1882 when canneries were reportedly constructed on the South Alaska Peninsula at Orzinski (Orzenoi) Bay and Thin Point Cove (Freeburn 1976). However, the earliest catch records for the Alaska Peninsula Management Area date back to 1906 (Figures 7–11; Appendix B1). Early season catches on the Alaska Peninsula were predominantly sockeye salmon *Oncorhynchus nerka* with minimal Chinook *O. tshawytscha* and coho *O. kisutch* harvest. Both pink *O. gorbuscha* and chum salmon *O. keta* harvests exceeded 500,000 fish for the first time in 1916 (Appendix B1).

Salmon stocks targeted throughout Area M vary throughout the season. Salmon harvested in the South Unimak and Shumagin Islands June fisheries include stocks migrating to a wide range of locations, including Bristol Bay and the Arctic–Yukon–Kuskokwim regions (5 AAC 09.365). The Southeastern District Mainland, located southwest of the Chignik Management Area, is managed primarily on the basis of the Chignik River sockeye salmon run prior to July 26 (Figure 3; 5 AAC 09.360). The remaining fisheries are managed on the basis of local run strength and escapements such as the sockeye salmon fishery on the North Alaska Peninsula and the South Alaska Peninsula pink and chum salmon fisheries.

The Cinder River and Inner Port Heiden sections, as well as the Ilnik Lagoon portion of the Ilnik Section, on the North Alaska Peninsula make up an overlap area where both Alaska Peninsula (Area M) and Bristol Bay (Area T) permit holders are allowed to fish during certain periods (Figure 4; 5 AAC 39.120(d)). Area M permit holders are allowed to fish anytime during open fishing periods in the overlap area. Area T permit holders may fish during open fishing periods anytime in the Cinder River and Inner Port Heiden sections. Area T fishermen may fish in Ilnik Lagoon during open fishing periods from August 1 through December 31.

## **EXVESSEL VALUE**

In 2014, 6 companies purchased salmon from Area M fishermen (Appendix A2) with an estimated salmon harvest value (exvessel) for all gear types of \$27,764,925 (Appendices A3 and A4). This was above the previous 10-year average (2004–2013) of \$23,909,494 (Appendix A4). The South Unimak and Shumagin Islands June fisheries harvest had a exvessel value of \$8,630,967 or approximately 31% of the entire Area M earnings in 2014 (Appendix A3). The exvessel value for the North Alaska Peninsula was approximately \$14,585,897 or about 53% of the total Area M value (Appendix A3). The total South Peninsula exvessel value, including the South Unimak and Shumagin Islands June fishery as well as the post-June and Southeastern District Mainland fisheries, was \$13,058,300 or approximately 47% of the total Area M exvessel value (Appendix A3). The remaining balance (exvessel value \$120,728) of the harvest was made up by seiners fishing in the Aleutian Islands (Appendix A3). Drift gillnet permit holders accounted for the most sockeye salmon landings in 2014 (exvessel value \$15,618,684) followed by seine (\$7,147,621) and set gillnet permit holders (\$4,998,620; Appendix A4). Sockeye salmon provided the majority of the exvessel revenues (\$24,255,101) for fishermen in Area M and accounted for about 87% of the total value of all salmon landings in 2014.

In 2014, the average exvessel prices per pound for sockeye, coho, and chum salmon were similar to 2013 prices (Appendix A5). The price per pound for pink salmon (\$0.23) was 65% of the 2013 price (\$0.35) but still higher than the most recent 10-year average price of \$0.21. The average exvessel price per pound for sockeye salmon (\$1.27) was 67% higher than the most recent 10-year average of \$0.76 per pound. The price per pound for Chinook salmon (\$1.00) was 16% higher than the 2013 price (\$0.86). The average weights remained close to the same for each species except for Chinook and coho salmon (Appendix A5). Coho salmon average weight increased from 6.5 lbs in 2013 to 7.5 lbs in 2014. Chinook salmon average weight increased from 11.9 lbs in 2013 to 12.6 lbs in 2014.

## **HARVEST**

In 2014, 46 of the 119 available seine, 110 of 162 available drift gillnet, and 45 of 113 available set gillnet Area M permits were fished (Appendix A6). No Area T permit holders fished in the overlap areas in 2014 (Appendix A7). The number of permits fished for set gillnets, drift gillnets, and purse seine were all below the most recent 10-year averages of 89, 133, and 53, respectively (Appendix A6).

The Alaska Peninsula 2014 commercial salmon harvest (excluding test fishery harvests) was 8,187 Chinook, 3,391,330 sockeye, 404,604 coho, 854,584 pink, and 630,220 chum salmon for a total of 5,288,925 fish (Figures 7–11; Appendices B1 and B2). The 2014 total harvest was far below the 2004–2013 average commercial salmon harvest of 12,227,590 fish (Appendix B1). In 2014, the harvest of all salmon species except coho salmon were below the most recent 10-year

averages. Coho salmon was 63% higher than the previous 10-year average of 247,903 fish (Appendix B1). Chinook salmon harvest was about 22% below the 10-year average of 10,842 fish, and the sockeye salmon harvest was 16% below the 10-year average of 4,061,666 fish. The pink salmon harvest was 87% below the 10-year average of 6,824,676 fish. The chum salmon harvest was 42% below the 10-year average of 1,082,503 fish (Appendix B1). The 2014 harvest information, by area, can be found in Appendix B2.

During 2014, in the Alaska Peninsula Area, seine fishermen harvested approximately 78% of the Chinook, 20% of the sockeye, 50% of the coho, 85% of the pink, and 69% of the chum salmon (Appendix B3). Drift gillnet fishermen harvested approximately 13% of the Chinook, 62% of the sockeye, 32% of the coho, 7% of the pink, and 23% of the chum salmon (Appendix B3). Set gillnet fishermen harvested about 9% of the Chinook, 18% of the sockeye, 18% of the coho, 8% of the pink, and 8% of the chum salmon (Appendix B3).

In 2014, ADF&G test fisheries were conducted in the Shumagin Islands on the South Alaska Peninsula (Figure 3) and near the mouth of Bear River on the North Peninsula (Figure 4). The Shumagin Island test fishery was conducted in early July to estimate immature salmon abundance that may be caught in the commercial fishery incidental to the targeted mature fish. The Bear River test fishery was conducted in early August to assess the strength of the Bear River late run which begins August 1. Results of the test fisheries are detailed in Appendix B4.

In 1991, the Alaska Board of Fisheries, created an open-to-entry set gillnet salmon fishery around the Atka and Amlia islands (Area F). Area M Commercial Fisheries Entry Commission (CFEC) seine permit holders may still seine for salmon in the Atka-Amlia Islands Area (5 AAC 11.333). However, since 1991 a commercial salmon harvest has only occurred 4 times in Area F, the most recent being in 1996.

## **SUBSISTENCE FISHERIES**

Subsistence uses of wild resources are defined as noncommercial, customary, and traditional uses for a variety of purposes. These include direct personal or family consumption as food, shelter, fuel, clothing, tools, or transportation; for the making and selling of handicraft articles out of non-edible by-products of fish and wildlife resources taken for personal or family consumption; and for the customary trade, barter, or sharing for personal or family consumption (AS 16.05.940 (33)). Whenever it is necessary to restrict harvests, subsistence fisheries have a preference over other uses of the stock (AS 16.05.258(b)(4)(A)).

Reliance on local resources for subsistence is important to many communities on the Alaska Peninsula, Aleutian Islands, and Pribilof Islands (Figures 1–5). Subsistence salmon permits are issued to residents in some of these areas through the ADF&G offices in Sand Point, Cold Bay, Port Moller, and Dutch Harbor. Information from returned subsistence permits is used to extrapolate catches for all permits issued<sup>1</sup>. Subsistence permits are not required in the Akutan, Umnak, Pribilof Islands, and Atka-Amlia areas. The Atka-Amlia Islands Area, as defined in the commercial fishing regulations, is considered a district of the Aleutian Islands Area in the subsistence fishing regulations (Figure 1).

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<sup>1</sup> An average catch per permit holder is calculated from returned permits and applied to unreturned permits *in absentia*. This assumes that permits which were issued but not returned were fished successfully at the same rate, and with the same average catch, as permits that were returned.

Due to the delay of subsistence permit returns, subsistence harvest information from 2014 is not included in this report. This report summarizes subsistence harvest from 2013.

## **PERMITS ISSUED**

In 2013, a total of 168 subsistence permits were issued in the Alaska Peninsula Area (Appendices C1 and C2). This was below the 172 permits issued in 2012 and below the 2008–2012 average of 170 permits. In the Aleutian Islands, 242 permits were issued for the Unalaska District (Figure 5 and Appendices C1 and C2). This is more than the 211 permits issued in 2012, and more than the 2008–2012 average of 215 permits issued (Appendix C1). There were 4 permits issued for the Adak District (Appendices C2 and C3). In 2013, about 92.3% of the subsistence permits issued in the Alaska Peninsula Area and 75.2% of the permits issued in the Unalaska District Area were completed and returned to ADF&G (Appendix C2). Of the 4 permits issued in the Adak area, 75.0% were completed and returned (Appendix C2).

## **2013 HARVEST BY AREA**

The species and number of salmon harvested for subsistence varied considerably among communities (Appendices C1–C3). This may be due to annual differences in salmon availability and species preference within each community. The 2013 Alaska Peninsula Area subsistence salmon harvest was an estimated 11,273 salmon composed of 243 Chinook salmon, 6,648 sockeye salmon, 2,192 coho salmon, 1,120 pink salmon, and 1,070 chum salmon (Appendices C1 and C2). The Alaska Peninsula Area subsistence salmon harvest has been showing a general decline in recent years after historic peak harvests in 1997. The 2013 subsistence salmon harvest was below the 2008–2012 average of 13,698 fish in the Alaska Peninsula Area. The subsistence salmon harvest in the Unalaska District during 2013 was an estimated 4,491 salmon composed of 3 Chinook, 3,978 sockeye, 208 coho, 233 pink, and 69 chum salmon (Figure 5; Appendices C1 and C2). The 2013 subsistence salmon harvest in Unalaska was less than the 2008–2012 average of 4,858 fish. Minimal subsistence harvest was reported in the Adak District in 2013 (Figure 1; Appendices C2 and C3).

### **Mortensens Lagoon Subsistence Fishery**

Mortensens Lagoon is located approximately 9 road miles southeast of the town of Cold Bay, and is an important source of sockeye and coho salmon for residents of both Cold Bay and King Cove. In 2013, 8 residents of Cold Bay, 13 residents of King Cove, and 1 nonlocal resident fished in Mortensens Lagoon (Appendix C4 and C5). During the 5 most recent years, 2008–2012, the average number of nonlocal permit holders fishing in Mortensens Lagoon was 7, compared to 15 local permit holders from Cold Bay and 13 local permit holders from King Cove (Appendix C5). In 2013, an estimated 899 sockeye salmon and 53 coho salmon were harvested in Mortensens Lagoon (Appendix C4 and C6).

### **Thin Point Lagoon Subsistence Fishery**

Thin Point Lagoon, located approximately 12 air miles west of King Cove, is an important source of subsistence sockeye and coho salmon for residents of King Cove. In 2013, an estimated 1,230 sockeye and 925 coho salmon were harvested from Thin Point Cove by 16 King Cove permit holders (Appendices C6 and C7).

## **Lenard Harbor Subsistence Fishery**

Lenard Harbor, near the King Cove road system, has been an important source of coho salmon for subsistence purposes in the past. In 2013, 4 subsistence permit holders harvested 182 coho salmon (Appendices C8 and C9).

## **Unalaska Subsistence Fishery**

Major Unalaska Island subsistence salmon fishing locations used during 2013 are listed in Appendix C10. The Reese Bay subsistence fishery, on Unalaska Island, targets sockeye salmon returning to McLees Lake (Hildreth and Finkle 2011) and appears to be fully utilized by subsistence fishermen during most years (Shaul and Dinnocenzo 2005). In 2013, Reese Bay subsistence sockeye salmon harvest was estimated to be 2,720 fish, which represented 74% of the total Unalaska District sockeye subsistence catch and was less than the 2012 subsistence harvest of 4,347 sockeye salmon (Figure 1; Appendices C6 and C10). In 2013, as in many other years, Reese Bay received more fishing effort than any other location on Unalaska Island. Subsistence harvest in 2008 was the lowest since 1996, but over the past 5 years there has been a trend of increased subsistence harvest (Appendix C1).

## **Adak District Subsistence Fishery**

The Adak District subsistence salmon harvest primarily consists of sockeye salmon taken at Quail Bay and Galas Point on Kagalaska Island and at Finger Bay and Airport Creek on Adak Island (Figure 1). After 1993, the personal use effort decreased from previous years due to reductions in U.S. Navy personnel stationed at Adak. In 1997, the civilian population of Adak increased because of military base cleanup work, which resulted in an increase in the number of permits issued and salmon harvested. A total of 18 permits were issued in 1997 and an estimated 229 sockeye salmon and 4 chum salmon were harvested (Appendix C3). During the 5 most recent years, 2008–2012, an average of 4 Adak District subsistence permits were issued with an estimated average harvest of 124 sockeye and 5 pink salmon harvested. In 2013, 4 subsistence permits were issued in the Adak District with a harvest of 28 coho and 53 pink salmon (Appendix C3).

## **ESCAPEMENT**

The Alaska Peninsula Management Area has approximately 307 salmon spawning streams, which includes the tributaries of some large systems (McCullough 2001). The South Alaska Peninsula has approximately 224 salmon-producing systems, with sockeye salmon found in 37 systems, pink salmon in 204 systems, and chum salmon in 136 systems. A total of approximately 82 coho salmon-producing systems have been documented in the South Alaska Peninsula; however, due to budget limitations and poor fall survey conditions, many streams have never been surveyed when coho salmon may be present. The North Alaska Peninsula has approximately 83 salmon-producing systems, with Chinook salmon found in 21 systems, sockeye salmon in 55 systems, and pink salmon in at least 39 systems (McCullough 2001). Chum salmon are present in 73 North Alaska Peninsula systems, and coho salmon have been identified in 50 systems.

The Aleutian Islands and Atka-Amlia Islands Management areas have at least 335 salmon systems, with sockeye salmon present in 45, pink salmon in 319, chum salmon in 11, and coho salmon in at least 35 systems (Murphy 1992).

Most salmon escapement estimates are derived from aerial surveys, although the major sockeye salmon systems are monitored with weirs. In 2014, 5 salmon enumeration weirs were operated by ADF&G on the Alaska Peninsula: Orzinski Lake, and Ilnik, Bear, Nelson, and Sandy rivers (Figure 2). McLees Lake weir in the Aleutian Islands Management Area on McLees Lake (Figure 6) was operated by ADF&G in cooperation with the Qawalangin Tribe of Unalaska.

A tripod salmon enumeration weir was operated by ADF&G at Orzinski Lake from 1929 through 1941, and then reestablished in 1990 (Figure 2). A weir is necessary because the Orzinski Lake sockeye salmon weir counts are used to determine fishing time for the Northwest Stepovak Section, and there are difficulties estimating the escapement with aerial surveys (Shaul et al. 1991).

A tripod salmon enumeration weir was installed at Ilnik River (Figure 2) in 1990 due to difficulties with estimating salmon abundance from the air, and the need to determine fishing periods for both the Ilnik Lagoon fishery (predominantly set gillnet gear) and the Ilnik Section outside the lagoon (predominantly drift gillnet gear). However, the 500-foot-long Ilnik River weir was difficult to install and maintain, making it challenging to obtain quality escapement data. The weir was modified in 1996 to a floating panel weir. The floating panel weir was easier to install and maintain, and remains the current method for enumerating salmon in the Ilnik River (Shaul and Berceci 1997).

A sockeye salmon weir was first operated on Bear River from 1929 through 1932. During this time period, the weir was placed immediately above the mouth of the Milky River (locally called the Mad Sow River). This weir was difficult to construct and supply, and a short operating season was not sufficient to estimate the total sockeye salmon escapement. From 1933 through 1952, a salmon enumerating structure was absent at Bear River. From 1953 through 1960 a weir was operated near the current weir location, close to the lake outlet (Figure 2). From 1961 through 1985, a counting tower replaced the weir. Since 1986, a tripod weir has again been used to enumerate Bear River sockeye salmon near the outlet of the lake.

A counting tower was used to enumerate salmon on the Nelson (Sapsuk) River from 1962 through 1988 (Figure 2). In 1989, the tower was replaced with the currently operating floating weir.

A counting tower was operated on the Sandy River from 1962 through 1964. After 1964, the Sandy River tower project was abandoned due to budget cuts and muddy waters that made tower counts unfeasible. Since 1994, a tripod weir has been operated on the Sandy River (Figure 2).

Sockeye salmon escapement into McLees Lake has been monitored by aerial surveys since 1967 (Hildreth and Finkle 2011). However, due to poor weather conditions, lack of aircraft availability, and other factors, it has been difficult to consistently and accurately monitor escapement. Sockeye salmon returning to McLees Lake are an important subsistence resource for residents of Unalaska, and in 2001, the United States Fish and Wildlife Service (USFWS) Kenai Field Office and the Qawalangin Tribe of Unalaska entered into a partnership to monitor sockeye salmon returns. The USFWS operated the McLees Lake weir from 2001–2011; ADF&G took over operation of the weir in 2012. The weir is typically operated from early June through late July. A grant from the Alaska Sustainable Salmon Fund provided ADF&G with funding to run the project for the 2012–2014 seasons and has recently been re-funded for the 2015-2017 season. The partnership with the Qawalangin Tribe continued through the projects transfer from

USFWS to ADF&G and the weir is now staffed seasonally by an ADF&G technician and a technician from the Qawalangin Tribe.

Estimated escapements for Chinook, sockeye, pink, and chum salmon for the North and South Alaska Peninsula are presented in Appendix D. Aerial surveys are used to estimate escapement in systems without a weir and to monitor historical trends in annual escapements. Appendix E outlines methods used to calculate escapements from aerial surveys. When presented in other sections of this report, coho salmon numbers are expressed in peak values (the largest number of coho salmon observed in a system in a given year). Escapement estimates in the text are estimated escapements derived from aerial surveys, except for tower or weir counts on the following systems: Bear River and Nelson River (sockeye salmon) from 1962–2014, Orzinski River (sockeye salmon) from 1990–2014, Ilnik River (sockeye salmon) from 1991–2014, Sandy River (sockeye salmon) from 1994–2014, Thin Point Cove (sockeye salmon) from 1994–1998, and Middle Lagoon (sockeye salmon) in 1996. The estimated escapement values are probably lower than the actual total escapement because aerial surveys typically underestimate escapement numbers. After 1984, there are differences between escapement figures used in area management reports and those in some formally published reports (technical data reports, bulletins, etc.) due to the different methods used to estimate escapement. Estimated Chinook, sockeye, pink, and chum salmon escapements from 1962 through 2014 are presented in Figures 12–15.

In 2014, the Alaska Peninsula estimated Chinook salmon escapement of 8,590 fish was approximately 79% below the previous 10-year average of 19,576 fish (Figure 12; Appendix D). The estimated 2014 sockeye salmon escapement of 1,213,822 fish was 5% above the previous 10-year average of 1,150,918 fish (Figure 13; Appendix C1). The 2014 estimated pink salmon escapement was 1,439,939 fish, with 93% of that escapement occurring on the South Alaska Peninsula (1,343,880 fish). The South Alaska Peninsula pink salmon escapement was approximately 54% below the 2004–2013 average of 3,131,442 fish (Figure 14; Appendix D). The 2014 Alaska Peninsula estimated total chum salmon escapement of 559,726 fish was about 41% below the previous 10-year average of 952,964 fish (Figure 15; Appendix D). Coho salmon escapement data collected in 2014 were incomplete due to a variety of reasons (inclement weather, end of field season, etc.) but are presented in subsequent sections of the Alaska Peninsula Management Reports. Due to cost, logistics, and low availability of suitable aircraft, complete escapement data are not available in the Aleutian Islands and Atka-Amlia Islands areas. For further detailed escapement information including age, sex, and length composition, refer to the Alaska Peninsula Management Area Salmon Escapement and Catch Sampling Results, 2014 (Wattum 2015).

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## **FIGURES**

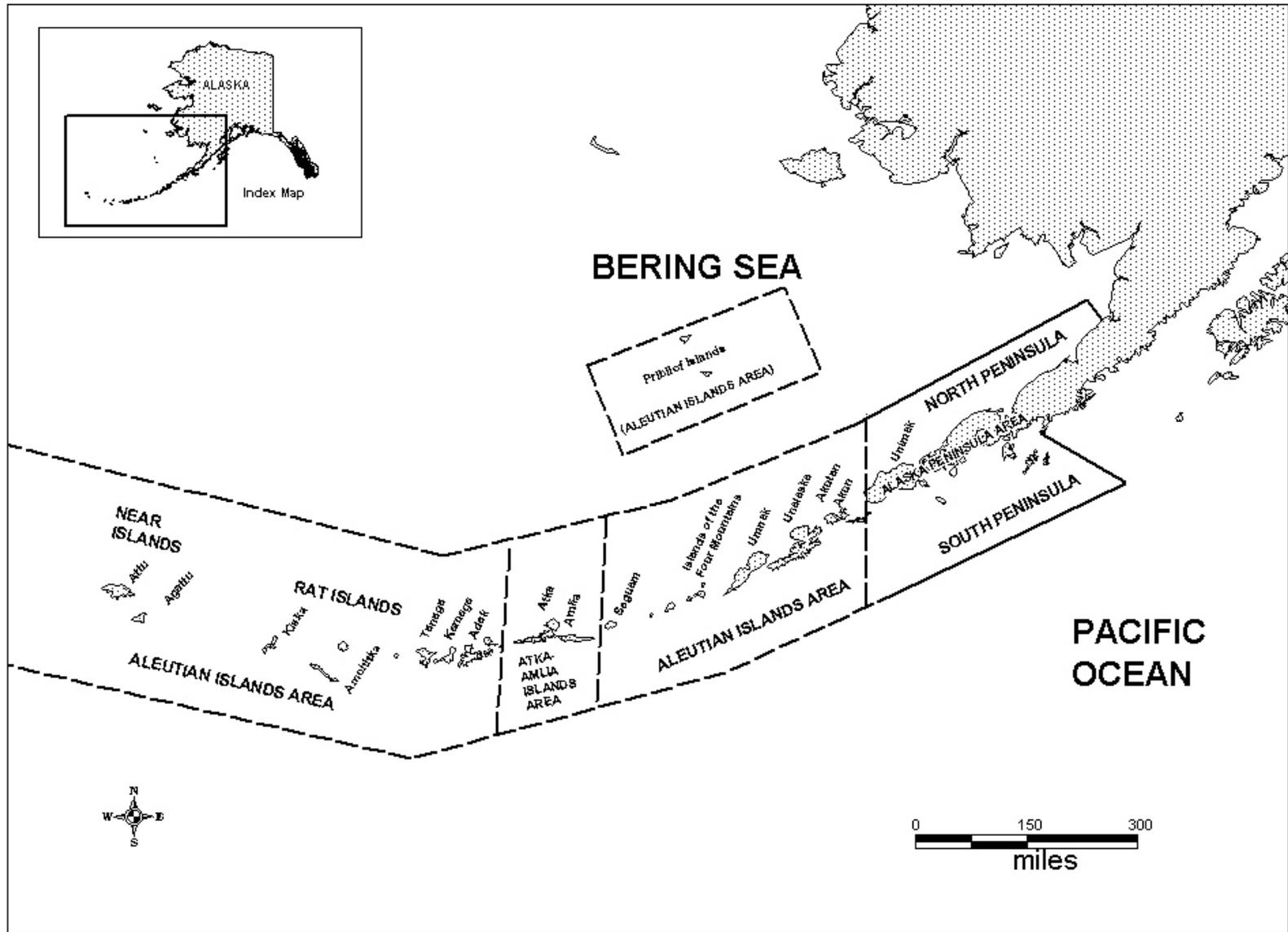


Figure 1.—Map of the Aleutian Islands, Atka-Amlia Islands, and Alaska Peninsula Management areas.

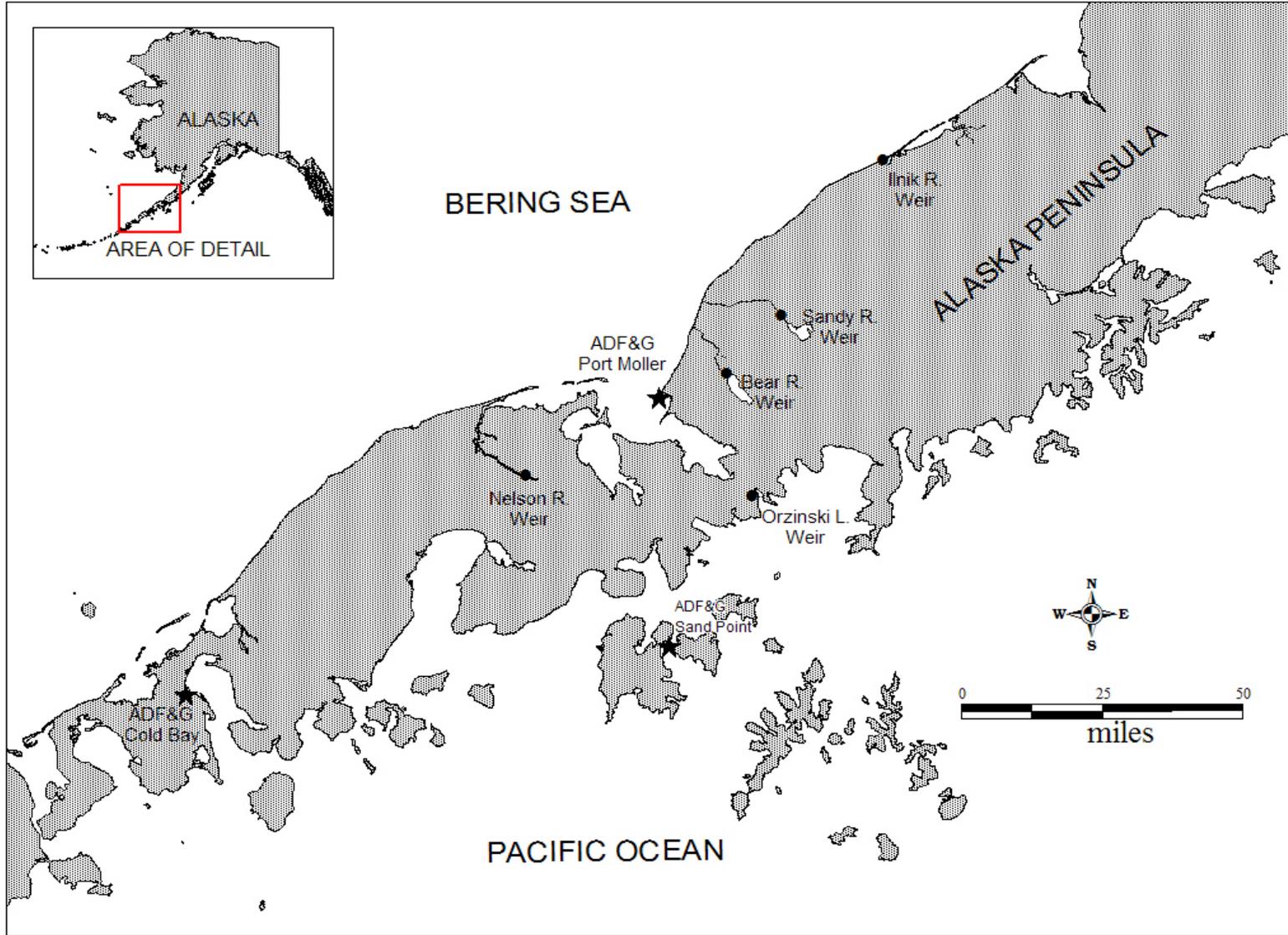


Figure 2.—Map of the Alaska Peninsula ADF&G weir and regional office locations.

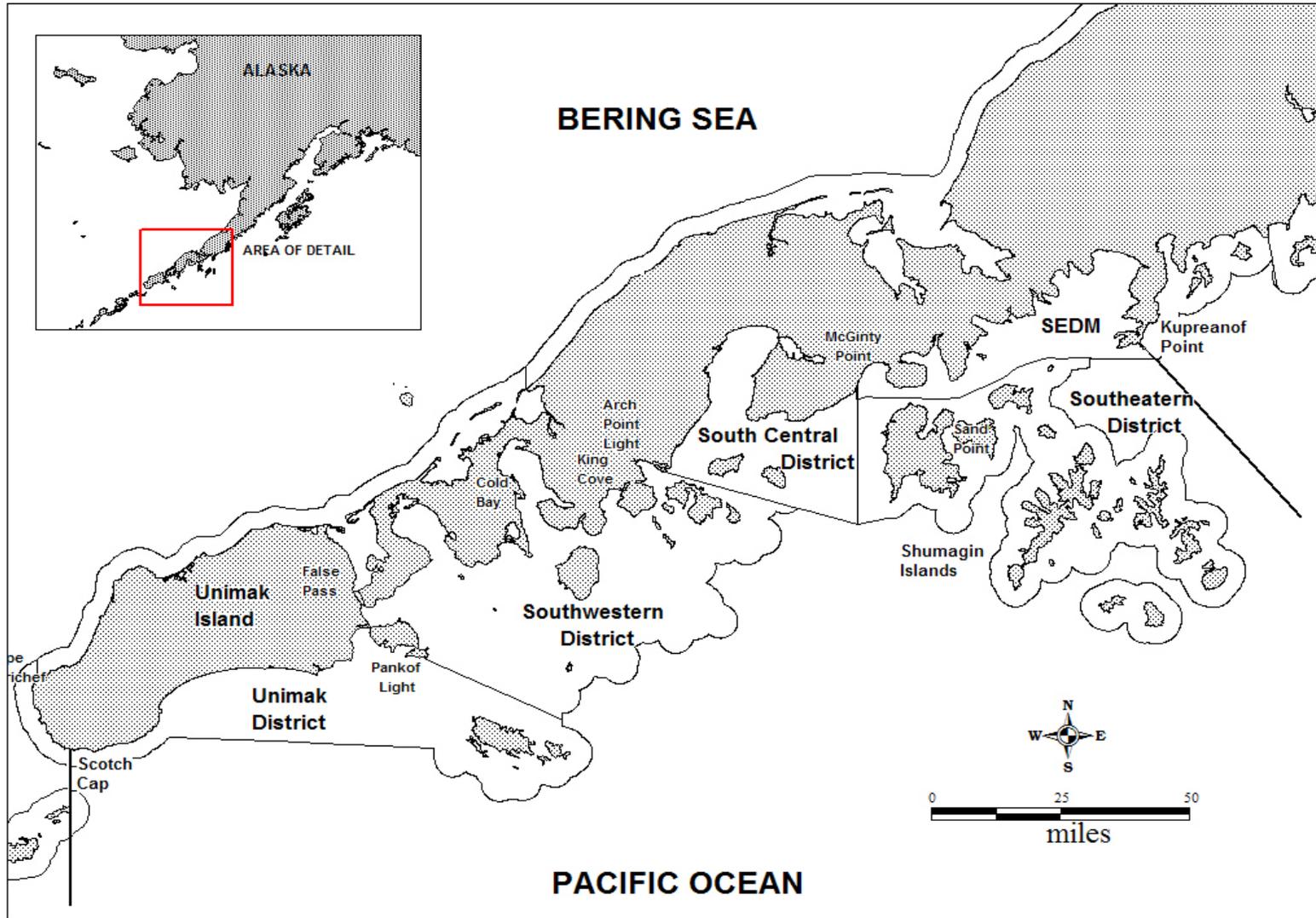


Figure 3.—Map of South Alaska Peninsula commercial salmon fishing districts.

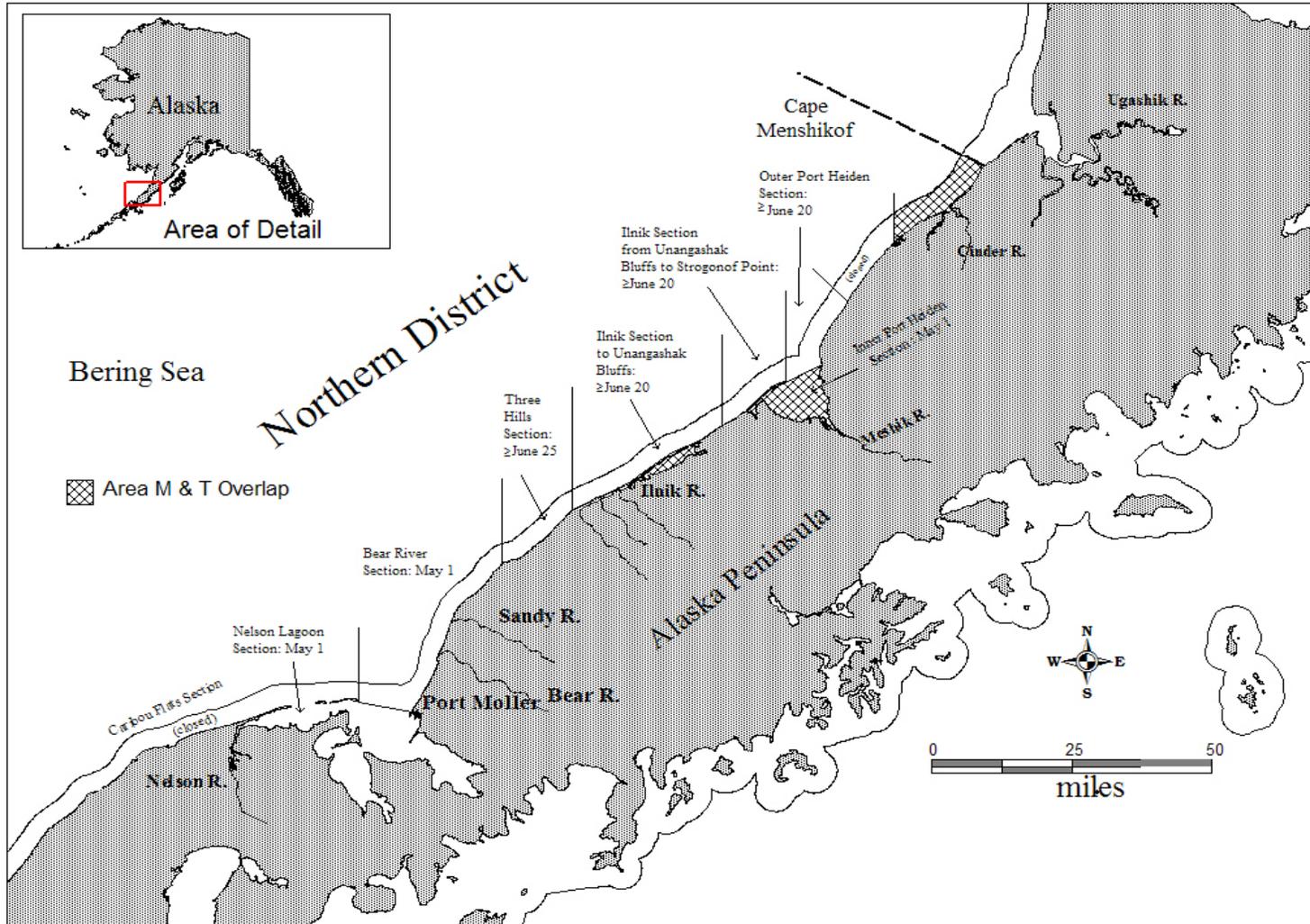


Figure 4.—Map of Nelson Lagoon to Cape Menshikof, showing commercial salmon fishing sections, season opening dates, area M and T overlap, and major sockeye salmon systems.

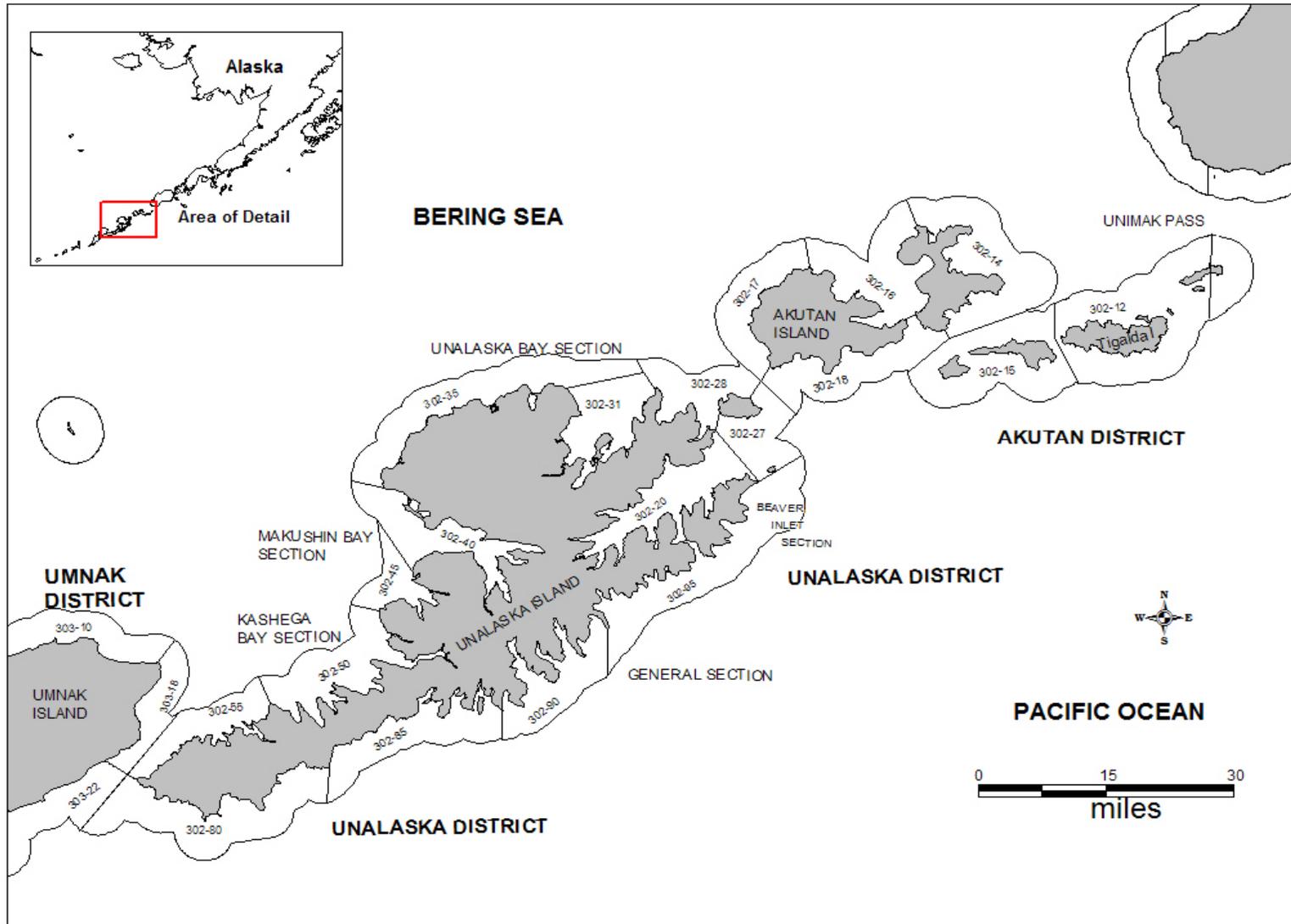


Figure 5.—Map of Unalaska and Akutan commercial salmon fishing districts and sections.

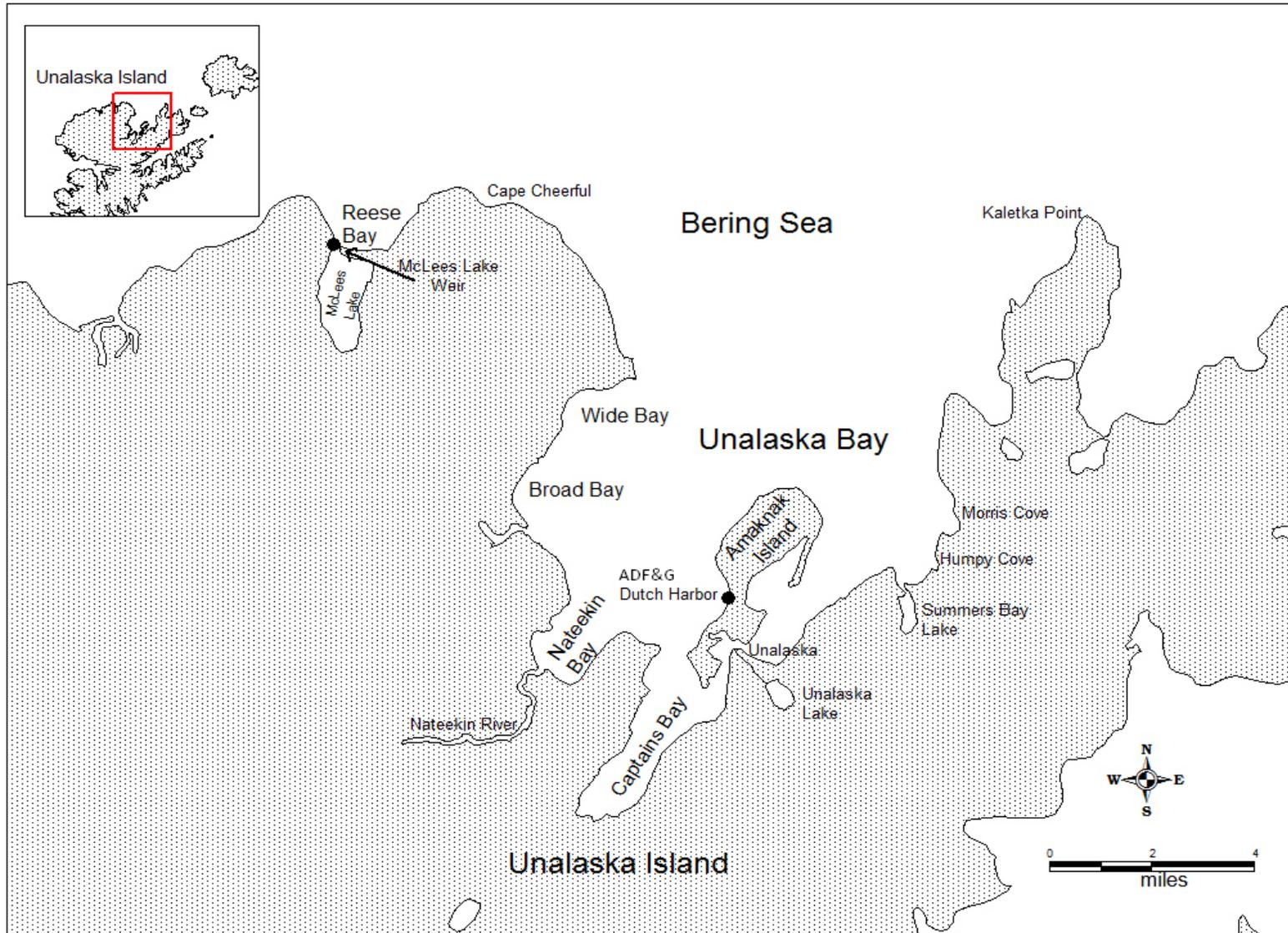


Figure 6.–Map of McLees Lake weir and ADF&G Dutch Harbor office.

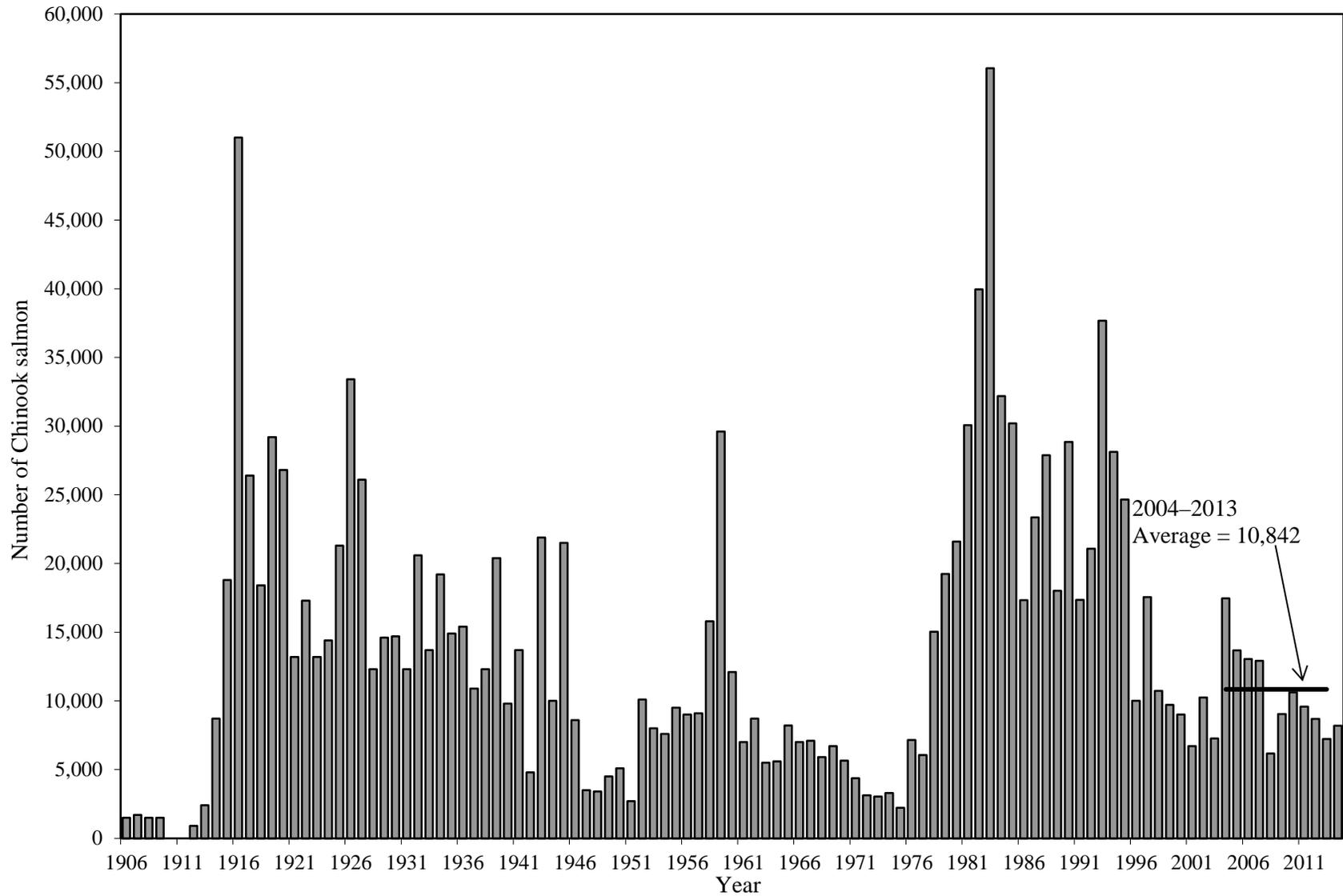


Figure 7.—The combined Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands areas harvest of Chinook salmon by year, 1906–2014.

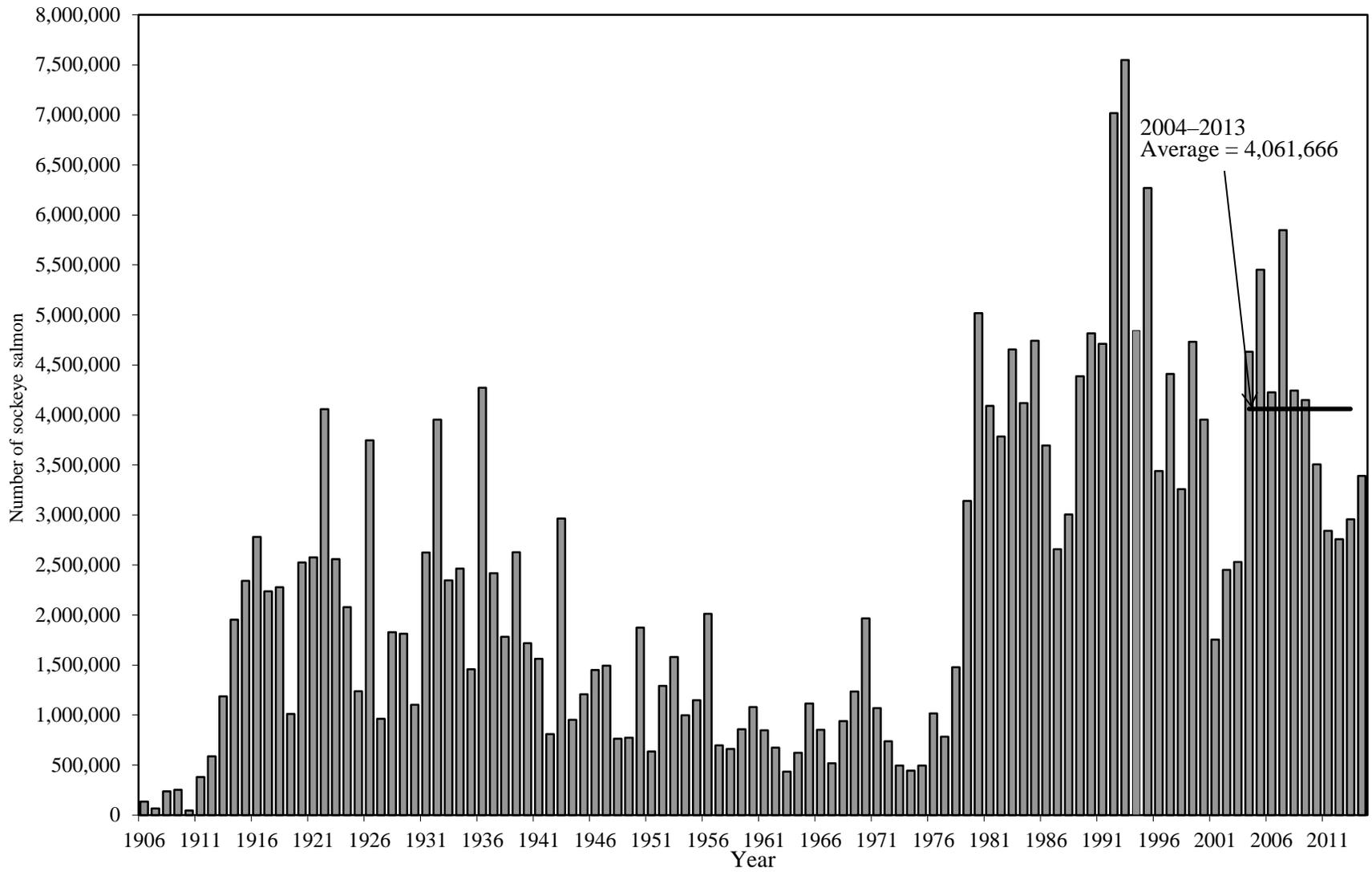


Figure 8.—The combined Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands areas harvest of sockeye salmon by year, 1906–2014.

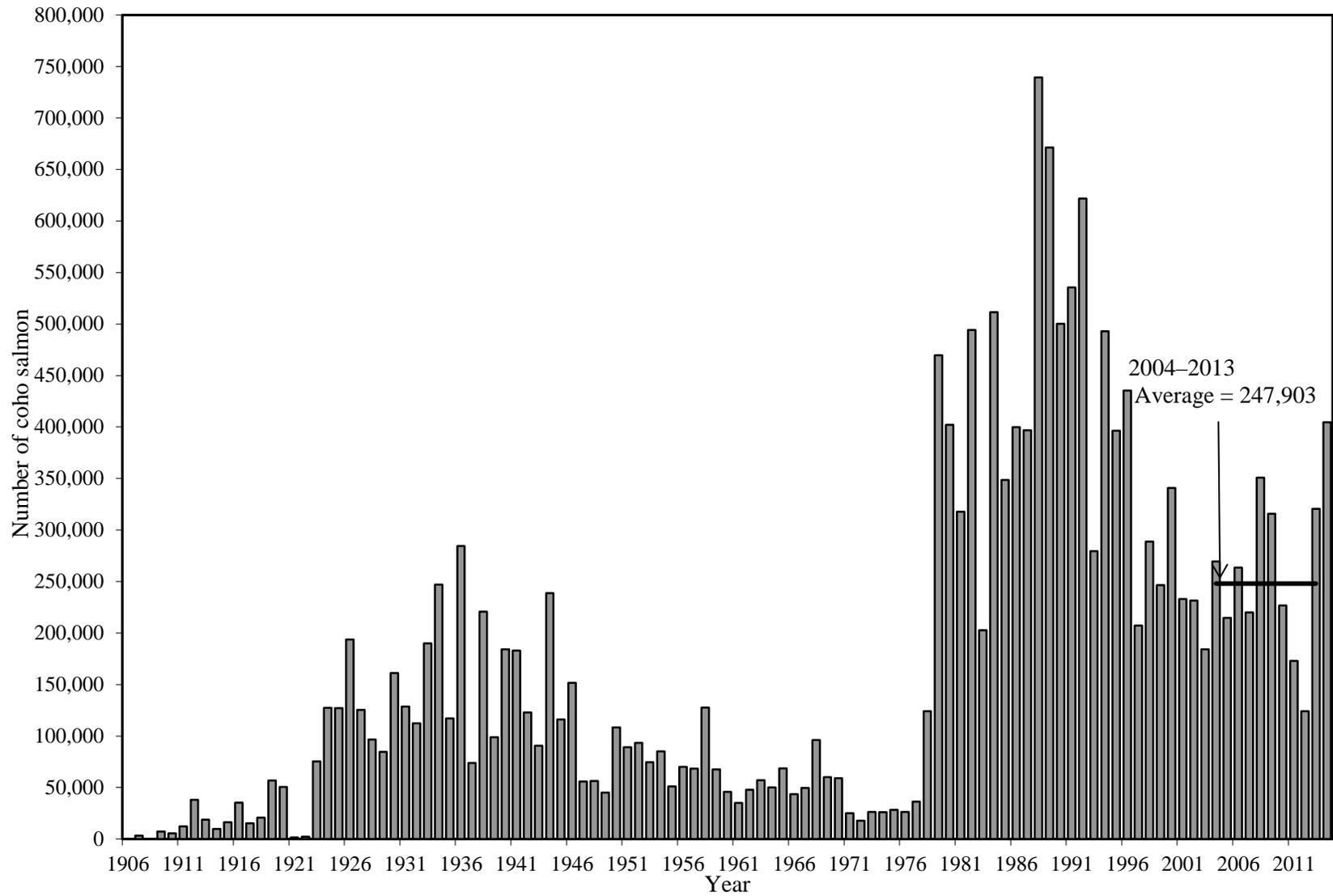


Figure 9.—The combined Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands areas harvest of coho salmon by year, 1906–2014.

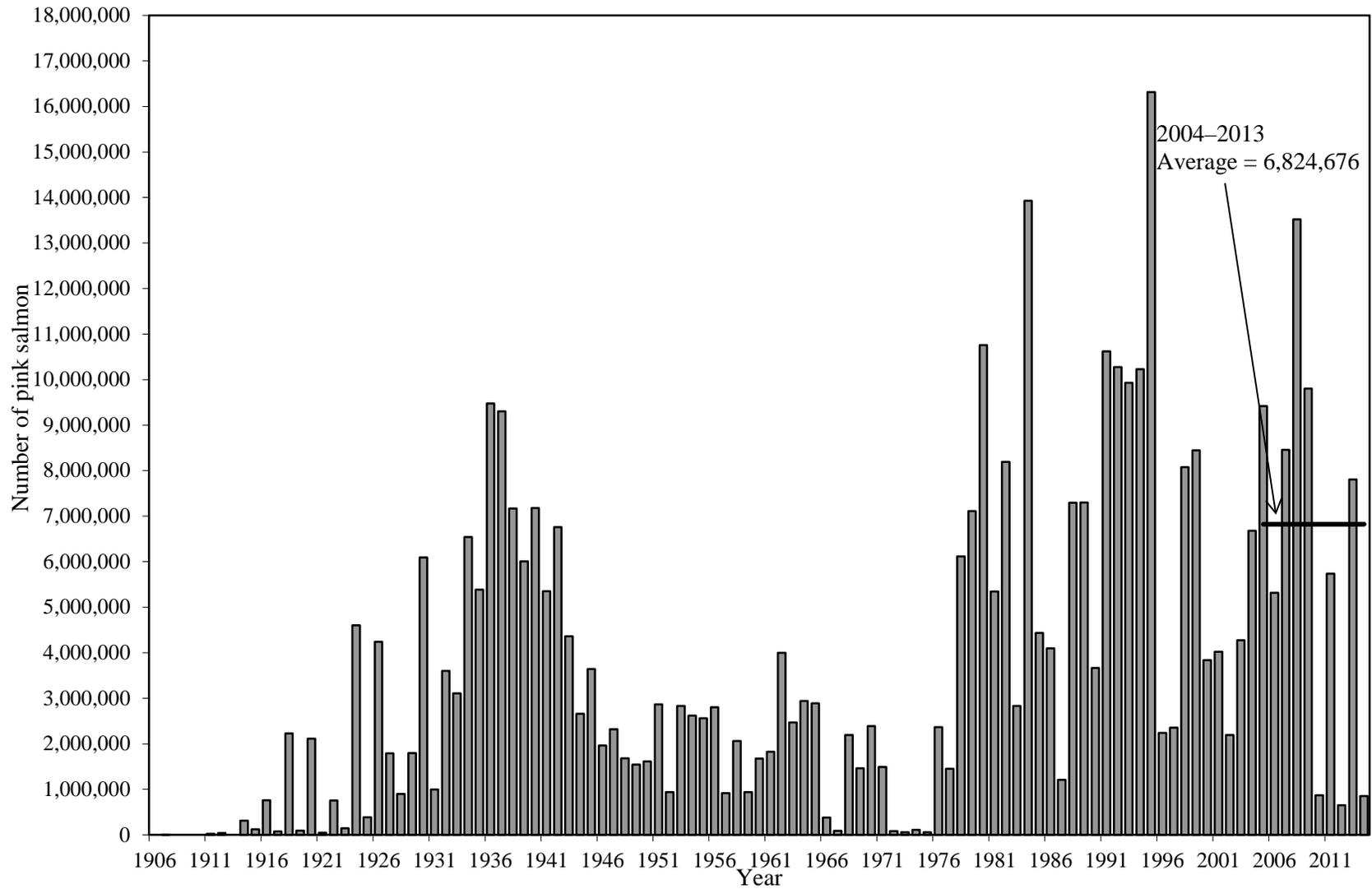


Figure 10.—The combined Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands areas harvest of pink salmon by year, 1906–2014.

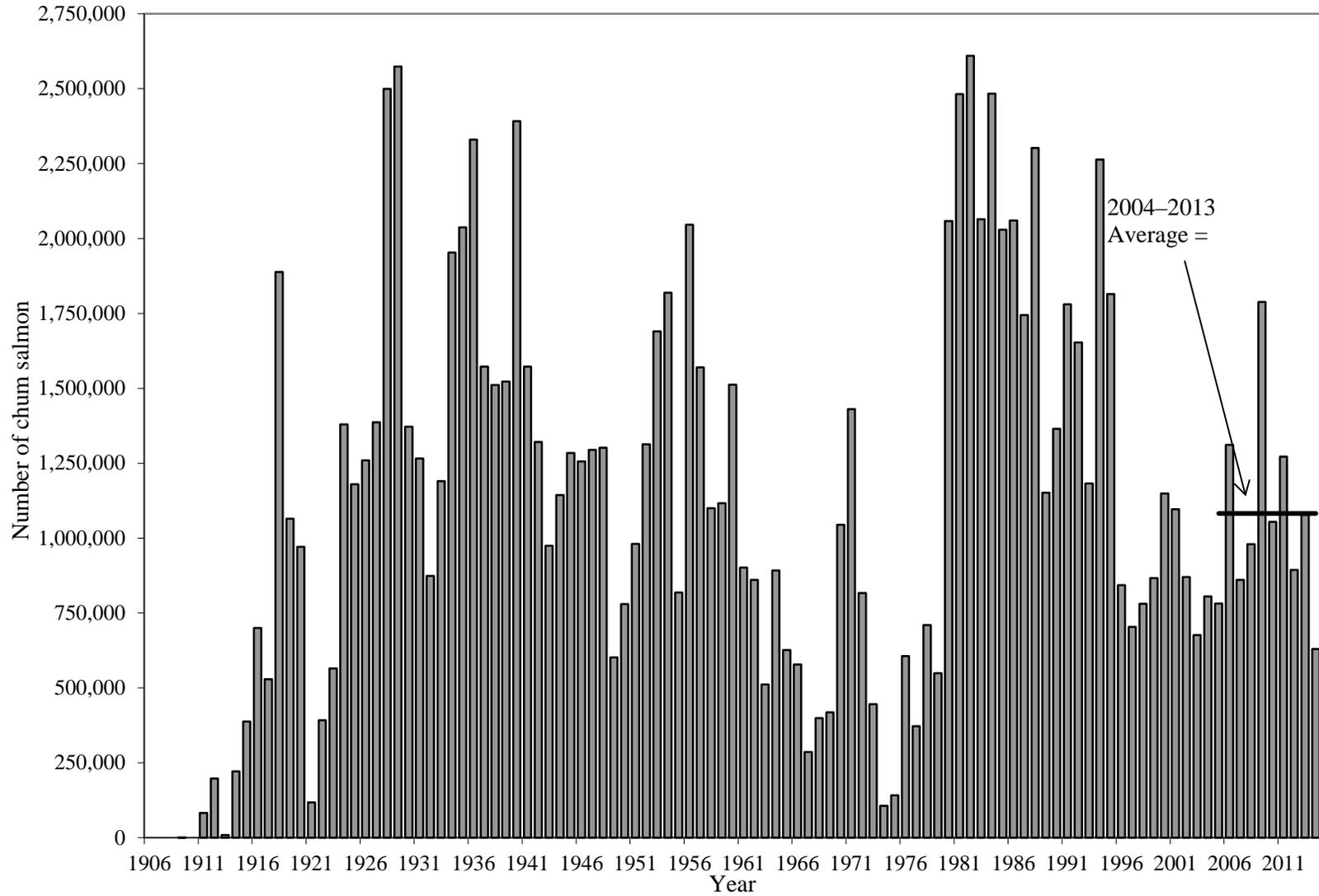


Figure 11.—The combined Alaska Peninsula, Aleutian Islands, and Atka-Amlia Islands areas harvest of chum salmon by year, 1906–2014.

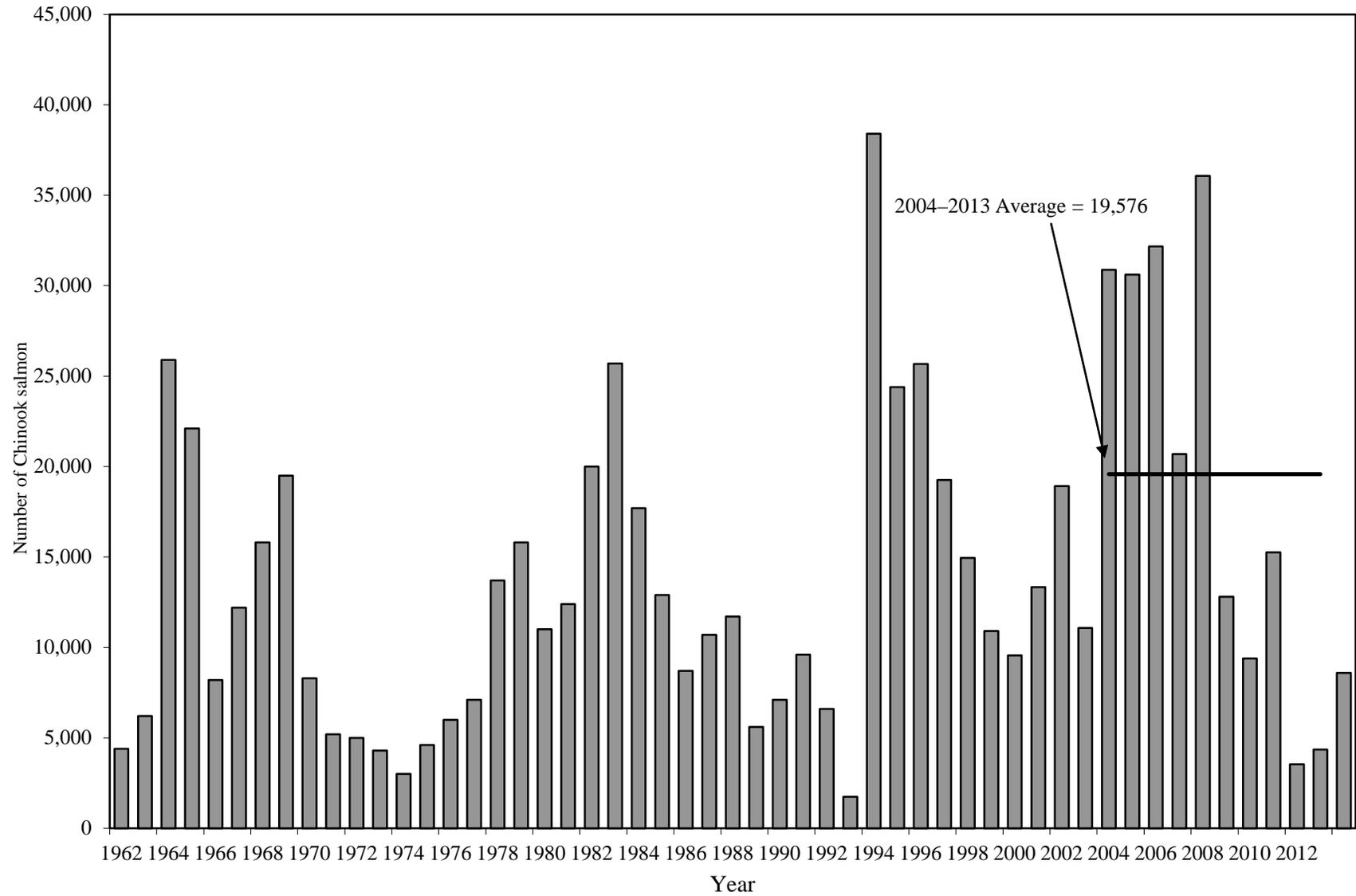


Figure 12.—The Alaska Peninsula Chinook salmon total estimated escapement by year, 1962–2014.

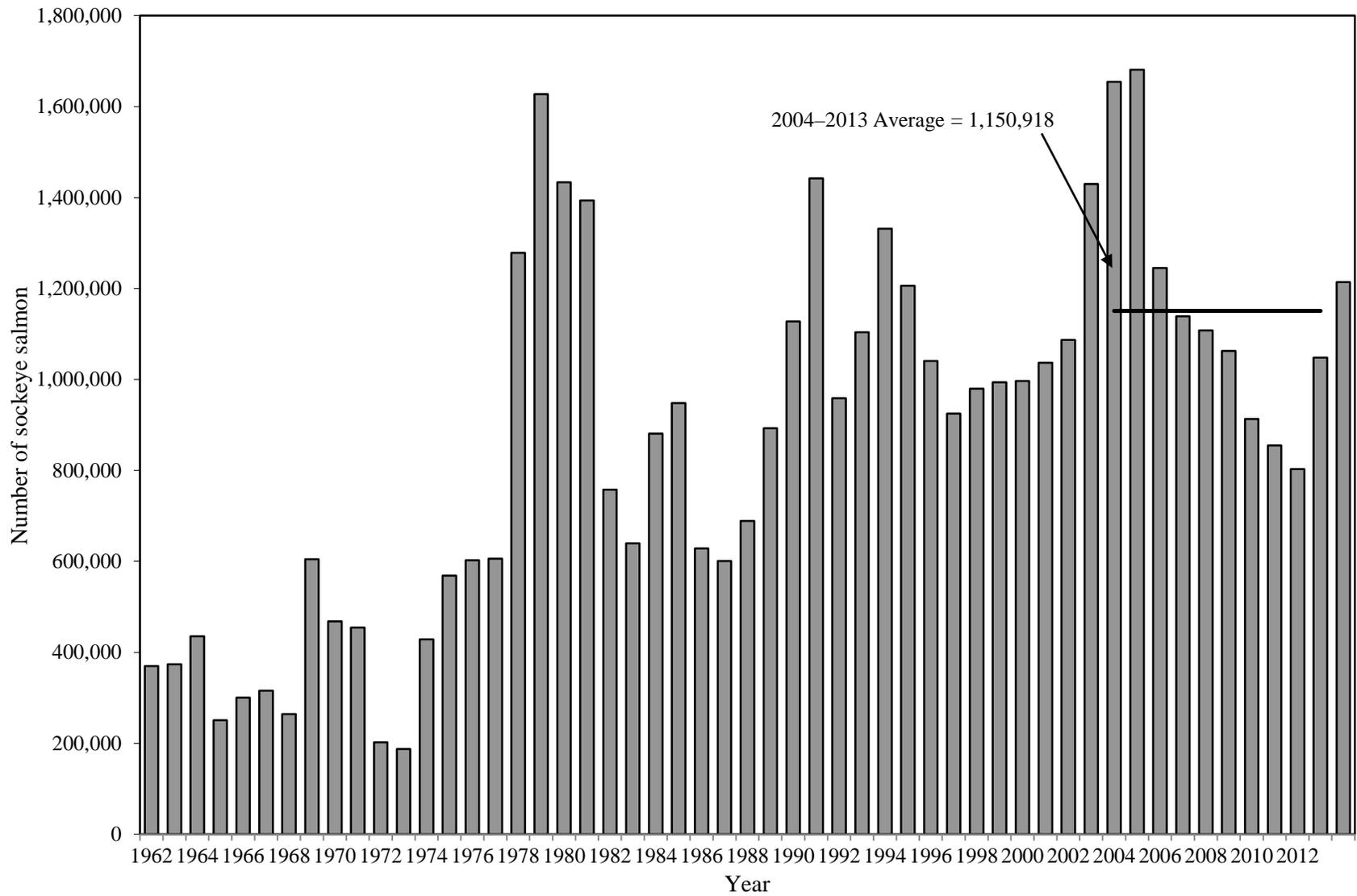


Figure 13.—The Alaska Peninsula sockeye salmon total estimated escapement by year, 1962–2014.

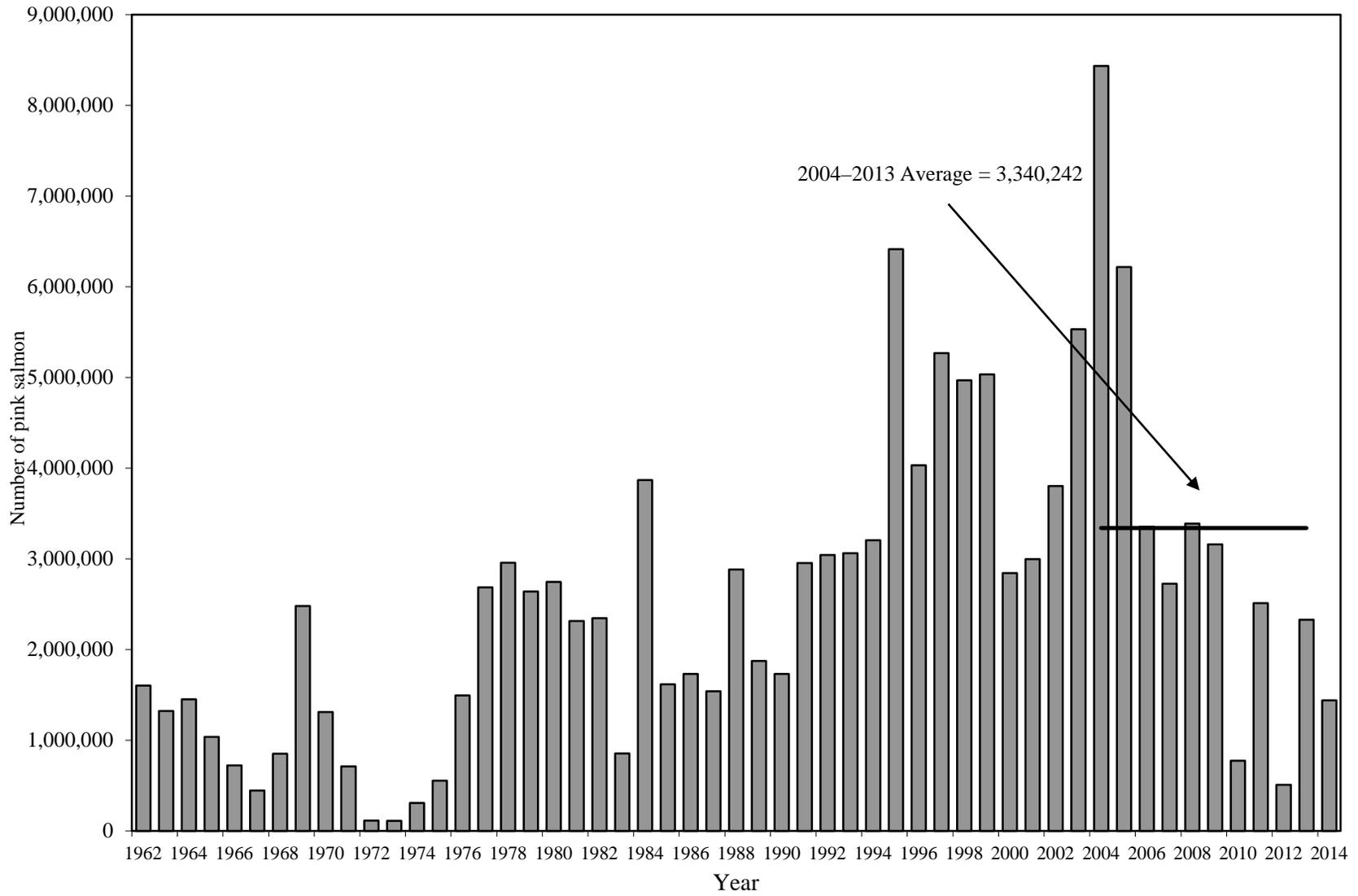


Figure 14.—The Alaska Peninsula pink salmon total estimated escapement by year, 1962–2014.

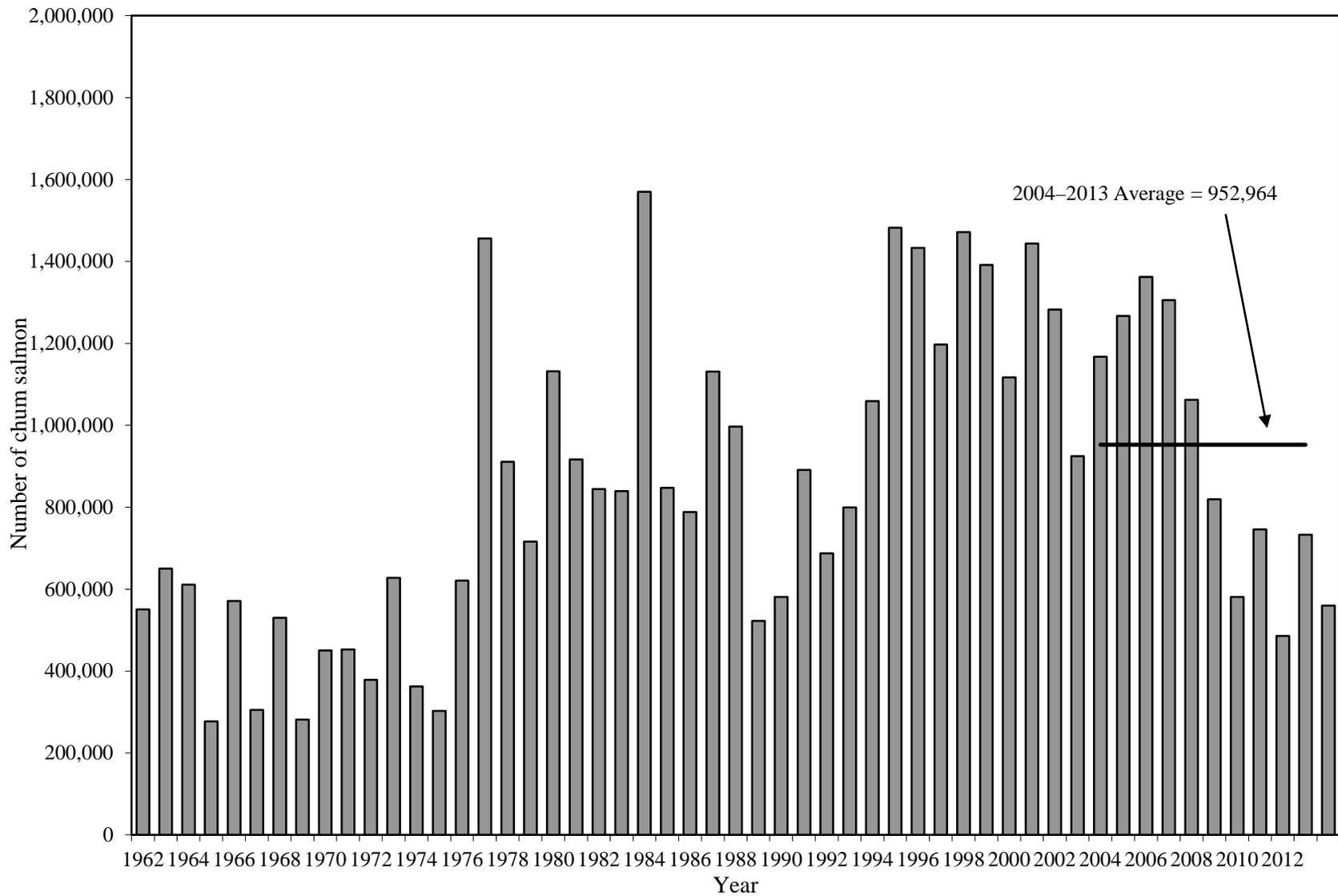


Figure 15.—The Alaska Peninsula chum salmon total estimated escapement by year, 1962–2014.

## **APPENDIX A. FISHERY ECONOMIC AND GEOGRAPHIC DATA**

Appendix A1.–List of statistical commercial salmon fishing areas in the Alaska Peninsula, Aleutian Islands, and Atka-Amlia Management Areas.

Area	Statistical areas
Alaska Peninsula (South and North)	28100 through 28599 plus 31111 through 31899
South Peninsula prior to 1991	28100 through 28499
<u>Southeastern District Mainland<sup>a</sup></u>	28100 through 28299 plus 28370, 28375, 28380, 28390
East Stepovak Section	28134, 28135, 28136
Stepovak Flats Section	28133
Northwest Stepovak Section	28110 through 28132
Orzinski and American Bays	28131
Southwest Stepovak Section	28390
Balboa Bay Section	28380
Beaver Bay Section <sup>a</sup>	28370, 28375
Shumagin Islands Section	28200 through 28299
<u>South Central District</u>	28361 through 28369
<u>Southwestern District</u>	28300 through 28352 plus 28460
<u>Unimak District</u>	28400 through 28450 plus 28310
South Peninsula after 1990	28100 through 28599
<u>Southeastern District</u>	28100 through 28299
Shumagin Islands Section <sup>c</sup>	28200 through 28299
<u>Southeastern District Mainland</u>	28100 through 28199
East Stepovak Section	28100 through 28125
Stepovak Flats Section	28130
Northwest Stepovak Section	28140 through 28169
Orzinski Bay	28150
American Bay	28155
Southwest Stepovak Section	28170
Balboa Bay Section	28180
Beaver Bay Section	28190
<u>South Central District</u>	28300 through 28399
Mino Creek – Little Coal Bay Section	28315, 28317
East Pavlof Bay Section <sup>c</sup>	28320, 28321, 28323
Canoe Bay Section <sup>c</sup>	28324
West Pavlof Bay Section <sup>c</sup>	28325, 28326
<u>Southwestern District<sup>c</sup></u>	28400 through 28499
Volcano Bay Section <sup>b</sup>	28436, 28437, 28438, 28439
Belkofski Bay Section	28442
Deer Island Section	28455
Cold Bay Section	28462, 28465, 28467
Thin Point Section	28475
Morzhovoi Bay Section	28480
Ikatan Bay Section	28490
<u>Unimak District<sup>c</sup></u>	28500 through 28599
Sanak Island Section	28510
Otter Cove Section	28520, 28530
Cape Lutke Section	28540

-continued-

Area	Statistical areas
Alaska Peninsula (South and North)	28100 through 28599 plus 31111 through 31899
North Peninsula	31111 through 31899
<u>Northwestern District</u>	31111 through 31299
Dublin Bay Section	31120
Urilia Bay Section	31132 through 31142
Swanson Lagoon Section	31152
Bechevin Bay Section (prior to 2000)	31158 through 31160
Bechevin Bay Section (2000 to present) <sup>c</sup>	31160
Izembek- Moffet Bay Section (prior to 2000)	31210 through 31240
Izembek- Moffet Bay Section (2000 to present)	31210 through 31240 and 31158
<u>Northern District</u>	31300 through 31899
Black Hills Section	31310
Caribou Flats Section	31320
Nelson Lagoon Section	31330
Herendeen-Moller Bay Section	31420 through 31430
Port Moller Bight Section	31412
Bear River Section	31500 through 31599
Three Hills Section	31610
Ilnik Section	31620 through 31699
Inner Port Heiden Section	31720
Outer Port Heiden Section	31710
Cinder River Section	31820
Common Northern District Terms	31500 through 31599 and 31412
Harbor Point to Cape Seniavin	
Cape Seniavin to Strogonof Point	31600 through 31699
Harbor Point to Strogonof Point	31500 through 31699 and 31412
Harbor Point to Outer Port Heiden	31500 through 31710 and 31412
Area M / Area T Overlap areas	31622, 31720, 31820
Aleutian Island Area	30200 through 30999
Atka-Amlia Area	30500 through 30599

<sup>a</sup> In 1985, statistical area 28370 became 2 areas (28370 and 28375). In 1988, Beaver Bay (28375) became part of the Southeastern District. The balance of 28370 remained in the South Central District. In 1991, statistical areas were changed to reflect Alaska Board of Fish management plans. As an aid in comparing statistics, catches from 1970-90 from statistical areas 28370 and 28375 have been designated as Beaver Bay catches from the Southeastern District. After 1990, these statistical areas were eliminated, Beaver Bay became 28190 (Southeastern District) and the Mino Creek-Little Coal Bay area became 28317 and 28315 (South Central District).

<sup>b</sup> In 2001, statistical area 28437 became 2 areas (28437 and 28439).

<sup>c</sup> This area participates in the South Unimak and Shumagin Islands June commercial salmon fishery.

Appendix A2.–List of processing companies purchasing salmon in the Alaska Peninsula and Aleutian Islands Management areas, 2014.

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Peter Pan Seafoods, Inc.  
2200 6th Avenue, Suite 1000  
Seattle, WA 98121

Trident Seafoods  
5303 Shilshole Avenue NW  
Seattle, WA 98107

Alaska Peninsula Fisherman's Cooperative  
P O Box 10156  
Bainbridge, WA 98101

Aleutia  
PO Box 408  
Sand Point, AK 99661

Bering Pacific Seafoods  
717 K Street, Suite 100  
Anchorage, AK 99501

Stacy Arbelovski  
PO Box 183  
Sand Point, AK, 99661

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Appendix A3.—Estimated exvessel value of Alaska Peninsula and Aleutian Islands Management areas commercial salmon fishery by gear type, 2014.

	Chinook	Sockeye	Coho	Pink	Chum	Total
<b>PURSE SEINE</b>						
<b>South Peninsula<sup>a</sup></b>						
Poundage	61,479	3,645,285	1,179,577	1,981,348	2,300,521	9,168,210
Average weight	13.2	5.6	6.3	3.5	6.7	
Exvessel value <sup>b</sup>	\$46,109	\$4,556,606	\$471,831	\$455,710	\$851,193	\$6,381,449
<b>Northwestern District<sup>c</sup></b>						
Poundage	388	197,455	48,499	3,633	700,164	950,139
Average weight	11.1	7.0	8.0	2.1	7.6	
Exvessel value <sup>b</sup>	\$504	\$286,310	\$21,825	\$727	\$336,079	\$645,444
<b>Northern District<sup>a,c</sup></b>						
Poundage	0	0	0	0	0	0
Average weight						
Exvessel value <sup>b</sup>	\$0	\$0	\$0	\$0	\$0	\$0
<b>North Peninsula<sup>a,c</sup></b>						
Poundage	388	197,455	48,499	3,633	700,164	950,139
Average weight	11.1	7.0	8.0	2.1	7.6	0.0
Exvessel value <sup>b</sup>	\$504	\$286,310	\$21,825	\$727	\$336,079	\$645,444
<b>Aleutian Islands Area<sup>c</sup></b>						
Poundage	0	0	0	447,140	0	447,140
Average weight				4.0		
Exvessel value <sup>b</sup>	\$0	\$0	\$0	\$120,728	\$0	\$120,728
<b>Alaska Peninsula and Aleutian Islands areas total<sup>a</sup></b>						
Poundage	61,867	3,842,740	1,228,076	2,432,121	3,000,685	10,565,489
Average weight	13.2	5.6	6.5	3.6	6.7	
Exvessel value <sup>b</sup>	\$46,614	\$4,842,916	\$493,655	\$577,164	\$1,187,271	\$7,147,621
<b>South Unimak and Shumagin Islands June fisheries<sup>a,d</sup></b>						
Poundage	55,760	2,520,408	1,086,635	1,277,699	2,121,524	7,062,026
Average weight	10.6	5.6	6.1	3.4	6.7	
Exvessel value <sup>b</sup>	\$40,705	\$3,150,510	\$434,654	\$293,871	\$784,964	\$4,704,703

-continued-

Appendix A3.–Page 2 of 5.

	Chinook	Sockeye	Coho	Pink	Chum	Total
<b>DRIFT GILLNET</b>						
<b>South Peninsula<sup>a</sup></b>						
Poundage	6,373	1,753,309	350,591	175,825	720,021	3,006,119
Average weight	14.5	5.7	6.6	3.2	6.2	
Exvessel value <sup>b</sup>	\$8,412	\$2,279,302	\$140,236	\$38,682	\$252,007	\$2,718,639
<b>Northwestern District<sup>c</sup></b>						
Poundage	0	26,312	955	539	12,681	40,487
Average weight		5.7	5.5	3.0	7.8	
Exvessel value <sup>b</sup>	\$0	\$32,890	\$430	\$108	\$4,438	\$37,866
<b>Northern District<sup>a,c</sup></b>						
Poundage	9,214	9,875,795	519,123	31,788	197,646	10,633,566
Average weight	15.1	5.5	7.9	2.9	6.4	
Exvessel value <sup>b</sup>	\$10,780	\$12,542,260	\$233,605	\$6,358	\$69,176	\$12,862,179
<b>North Peninsula<sup>a,c</sup></b>						
Poundage	9,214	9,902,107	520,078	32,327	210,327	10,674,053
Average weight	15.1	5.5	7.9	2.9	6.4	
Exvessel value <sup>b</sup>	\$10,780	\$12,575,150	\$234,035	\$6,465	\$73,614	\$12,900,045
<b>Alaska Peninsula and Aleutian Islands areas total<sup>a</sup></b>						
Poundage	15,587	11,655,416	870,669	208,152	930,348	13,680,172
Average weight	15.0	5.5	7.9	3.2	6.3	
Exvessel value <sup>b</sup>	\$19,193	\$14,854,451	\$374,272	\$45,147	\$325,622	\$15,618,684
<b>Area T permit holders in the Area M overlap</b>						
Poundage	0	0	0	0	0	0
Average weight						
Exvessel value <sup>b</sup>	\$0	\$0	\$0	\$0	\$0	\$0
<b>Area M permit holders</b>						
Poundage	15,587	11,655,416	870,669	208,152	930,348	13,680,172
Average weight	15.0	5.5	7.9	3.2	6.3	
Exvessel value <sup>b</sup>	\$19,193	\$14,854,451	\$374,272	\$45,147	\$325,622	\$15,618,684
<b>South Unimak and Shumagin Islands June fisheries<sup>a,d</sup></b>						
Poundage	4,641	1,102,334	263,573	124,546	522,042	2,017,136
Average weight	12.4	5.6	5.9	3.2	6.2	
Exvessel value <sup>b</sup>	\$6,080	\$1,422,011	\$105,429	\$28,646	\$182,715	\$1,744,880

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	Chinook	Sockeye	Coho	Pink	Chum	Total
<b>SET GILLNET</b>						
South Peninsula <sup>a</sup>						
Poundage	3,955	2,928,962	273,664	213,599	328,637	3,748,817
Average weight	7.8	6.1	7.0	3.3	6.9	
Exvessel value <sup>b</sup>	\$4,825	\$3,661,203	\$109,466	\$51,264	\$131,455	\$3,958,212
Northwestern District <sup>c,d</sup>						
Poundage	-	-	-	-	-	-
Average weight	-	-	-	-	-	-
Exvessel value <sup>b</sup>	-	-	-	-	-	-
Northern District <sup>a,c</sup>						
Poundage	3,186	717,225	297,487	222	16,542	1,034,662
Average weight	14.7	5.6	8.6	4.0	6.6	
Exvessel value <sup>b</sup>	\$4,174	\$896,531	\$133,869	\$44	\$5,790	\$1,040,408
North Peninsula <sup>a,c</sup>						
Poundage	3,186	717,225	297,487	222	16,542	1,034,662
Average weight	14.7	5.6	8.6	4.0	6.6	
Exvessel value <sup>b</sup>	\$4,174	\$896,531	\$133,869	\$44	\$5,790	\$1,040,408
Alaska Peninsula and Aleutian Islands areas Total <sup>a</sup>						
Poundage	7,141	3,646,187	571,151	213,821	345,179	4,783,479
Average weight	9.2	6.1	8.1	3.4	6.9	
Exvessel value <sup>b</sup>	\$8,999	\$4,557,734	\$243,335	\$51,308	\$137,245	\$4,998,620
Area T Permit Holders in the Area M overlap						
Poundage	0	0	0	0	0	0
Average weight						
Exvessel value <sup>b</sup>	\$0	\$0	\$0	\$0	\$0	\$0
Area M Permit Holders						
Poundage	7,141	3,646,187	571,151	213,821	345,179	4,783,479
Average weight	9.2	6.1	8.1	3.4	6.9	0.0
Exvessel value <sup>b</sup>	\$8,999	\$4,557,734	\$243,335	\$51,308	\$137,245	\$4,998,620
South Unimak and Shumagin Islands June fisheries <sup>a,d</sup>						
Poundage	2,829	1,610,626	91,231	159,137	230,895	2,094,718
Average weight	6.9	6.2	6.1	3.4	6.9	
Exvessel value <sup>b</sup>	\$3,367	\$2,013,283	\$36,492	\$38,193	\$90,049	\$2,181,383

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	Chinook	Sockeye	Coho	Pink	Chum	Total
<b>All Gear Combined</b>						
<b>South Peninsula<sup>a</sup></b>						
Poundage	71,807	8,327,556	1,803,832	2,370,772	3,349,179	15,923,146
Average weight	11.7	5.9	6.6	3.5	6.7	
Exvessel value <sup>b</sup>	\$59,347	\$10,497,110	\$721,533	\$545,655	\$1,234,655	\$13,058,300
<b>Northwestern District<sup>c</sup></b>						
Poundage	388	223,767	49,454	4,172	712,845	990,626
Average weight	11.1	6.8	8.0	3.2	7.6	
Exvessel value <sup>b</sup>	504	319,200	22,254	834	340,517	\$683,310
<b>Northern District<sup>a,c</sup></b>						
Poundage	12,400	10,593,020	816,610	32,010	214,188	11,668,228
Average weight	15.0	5.5	8.2	2.9	6.4	
Exvessel value <sup>b</sup>	14,954	13,438,791	367,475	6,402	74,966	\$13,902,587
<b>North Peninsula<sup>a,c</sup></b>						
Poundage	12,788	10,816,787	866,064	36,182	927,033	12,658,854
Average weight	14.8	5.5	8.2	3.2	6.9	
Exvessel value <sup>b</sup>	\$15,458	\$13,757,991	\$389,729	\$7,236	\$415,483	\$14,585,897
<b>Aleutian Islands Area<sup>c</sup></b>						
Poundage	0	0	0	447,140	0	447,140
Average weight				4.0		
Exvessel value <sup>b</sup>	\$0	\$0	\$0	120,728	\$0	\$120,728
<b>Alaska Peninsula and Aleutian Islands areas total<sup>a</sup></b>						
Poundage	84,595	19,144,343	2,669,896	2,854,094	4,276,212	29,029,140
Average weight	12.6	5.6	7.5	3.5	6.7	
Exvessel value <sup>b</sup>	74,805	24,255,101	1,111,262	673,620	1,650,138	\$27,764,925
<b>Area T Permit Holders in the Area M overlap</b>						
Poundage	0	0	0	0	0	0
Average weight						
Exvessel value <sup>b</sup>	\$0	\$0	\$0	\$0	\$0	\$0
<b>Area M permit holders</b>						
Poundage	84,595	19,144,343	2,669,896	2,854,094	4,276,212	29,029,140
Average weight	12.6	5.6	7.5	3.5	6.7	
Exvessel value <sup>b</sup>	\$74,805	\$24,255,101	\$1,111,262	\$673,620	\$1,650,138	\$27,764,925
<b>South Unimak and Shumagin Islands June fisheries<sup>a,d</sup></b>						
Poundage	63,230	5,233,368	1,441,439	1,561,382	2,874,461	11,173,880
Average weight	10.1	5.9	6.1	3.4	6.7	
Exvessel value <sup>b</sup>	\$50,151	\$6,585,803	\$576,576	\$360,709	\$1,057,728	\$8,630,967

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*Note:* Due to confidentiality requirements, significant differences in totals may occur between tables.

<sup>a</sup> All exvessel values are estimates generated from fish ticket database.

<sup>b</sup> These figures are included in the North Peninsula and Alaska Peninsula and Aleutian Islands areas total.

<sup>c</sup> Does not include test fisheries.

<sup>d</sup> These figures are included in the South Peninsula and Alaska Peninsula and Aleutian Islands areas total.

Appendix A4.—Alaska Peninsula and Aleutian Islands Management areas estimated exvessel value of commercially caught salmon by year, species, and gear, 1979–2014.

Year	Gear	Exvessel value					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1979	Seine	\$41,024	\$5,806,222	\$2,403,576	\$9,544,217	\$1,706,042	\$19,501,081
	Drift gillnet	\$240,779	\$11,753,626	\$441,669	\$39,800	\$263,172	\$12,739,046
	Set gillnet	\$201,398	\$2,505,152	\$355,256	\$123,283	\$158,286	\$3,343,375
	Total	\$483,201	\$20,065,000	\$3,200,501	\$9,707,300	\$2,127,500	\$35,583,502
1980	Seine	\$58,969	\$9,244,048	\$933,974	\$13,857,200	\$4,534,200	\$28,628,391
	Drift gillnet	\$152,604	\$5,505,669	\$291,213	\$9,800	\$1,077,000	\$7,036,286
	Set gillnet	\$88,426	\$1,250,283	\$274,813	\$133,000	\$388,800	\$2,135,322
	Total	\$299,999	\$16,000,000	\$1,500,000	\$14,000,000	\$6,000,000	\$37,799,999
1981	Seine	\$149,904	\$7,555,092	\$818,867	\$7,780,053	\$6,186,088	\$22,490,004
	Drift gillnet	\$227,880	\$12,919,049	\$402,703	\$23,122	\$1,387,760	\$14,960,514
	Set gillnet	\$162,216	\$3,359,859	\$440,430	\$169,825	\$485,152	\$4,617,482
	Total	\$540,000	\$23,834,000	\$1,662,000	\$7,973,000	\$8,059,000	\$42,068,000
1982	Seine	\$159,719	\$7,342,780	\$1,193,753	\$6,273,624	\$5,222,369	\$20,192,245
	Drift gillnet	\$482,670	\$9,920,524	\$790,307	\$53,286	\$2,086,026	\$13,332,813
	Set gillnet	\$299,612	\$1,690,697	\$701,940	\$93,090	\$380,606	\$3,165,945
	Total	\$942,001	\$18,954,001	\$2,686,000	\$6,420,000	\$7,689,001	\$36,691,003
1983	Seine	\$290,228	\$7,710,942	\$413,021	\$2,798,538	\$3,682,741	\$14,895,470
	Drift gillnet	\$264,657	\$11,836,113	\$106,775	\$8,857	\$799,006	\$13,015,408
	Set gillnet	\$138,115	\$2,438,945	\$233,204	\$79,605	\$207,254	\$3,097,123
	Total	\$693,000	\$21,986,000	\$753,000	\$2,887,000	\$4,689,001	\$31,008,001
1984	Seine	\$162,878	\$6,927,466	\$1,283,032	\$12,265,369	\$3,384,960	\$24,023,705
	Drift gillnet	\$366,861	\$8,895,318	\$721,161	\$88,448	\$1,218,684	\$11,290,472
	Set gillnet	\$160,861	\$3,680,216	\$524,907	\$241,183	\$316,356	\$4,923,523
	Total	\$690,600	\$19,503,000	\$2,529,100	\$12,595,000	\$4,920,000	\$40,237,700
1985	Seine	\$111,106	\$8,835,393	\$966,202	\$3,590,683	\$3,367,800	\$16,871,184
	Drift gillnet	\$313,931	\$15,569,329	\$528,289	\$20,455	\$804,537	\$17,236,541
	Set gillnet	\$196,363	\$3,651,278	\$559,510	\$176,901	\$190,663	\$4,774,715
	Total	\$621,400	\$28,056,000	\$2,054,001	\$3,788,039	\$4,363,000	\$38,882,440
1986	Seine	\$63,512	\$7,218,401	\$1,109,746	\$2,665,608	\$4,151,941	\$15,209,208
	Drift gillnet	\$102,301	\$19,594,136	\$462,212	\$28,793	\$688,716	\$20,876,158
	Set gillnet	\$59,587	\$4,274,463	\$414,342	\$74,198	\$243,344	\$5,065,934
	Total	\$225,400	\$31,087,000	\$1,986,300	\$2,768,599	\$5,084,001	\$41,151,300

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Year	Gear	Exvessel value					
		Chinook	Sockeye	Coho	Pink	Chum	Total
1987	Seine	\$174,544	\$7,305,460	\$1,383,112	\$1,691,295	\$3,320,666	\$13,875,077
	Drift gillnet	\$247,653	\$14,594,398	\$908,674	\$9,073	\$1,185,440	\$16,945,238
	Set gillnet	\$98,803	\$5,636,742	\$664,213	\$78,632	\$273,894	\$6,752,284
	Total	\$521,000	\$27,536,600	\$2,955,999	\$1,779,000	\$4,780,000	\$37,572,599
1988	Seine	\$232,723	\$11,952,232	\$3,534,600	\$19,005,582	\$10,403,088	\$45,128,225
	Drift gillnet	\$297,533	\$23,503,525	\$1,742,790	\$506,192	\$3,213,893	\$29,263,933
	Set gillnet	\$142,743	\$7,280,243	\$1,172,610	\$817,226	\$787,019	\$10,199,841
	Total	\$672,999	\$42,736,000	\$6,450,000	\$20,329,000	\$14,404,000	\$84,591,999
1989	Seine	\$117,486	\$14,925,204	\$1,831,648	\$8,958,999	\$1,947,290	\$27,780,627
	Drift gillnet	\$159,100	\$18,253,184	\$1,292,059	\$113,538	\$890,441	\$20,708,322
	Set gillnet	\$89,414	\$6,112,612	\$870,293	\$468,463	\$273,268	\$7,814,050
	Total	\$366,000	\$39,291,000	\$3,994,000	\$9,541,000	\$3,110,999	\$56,302,999
1990	Seine	\$239,867	\$12,937,460	\$1,354,192	\$3,369,540	\$2,368,008	\$20,269,067
	Drift gillnet	\$271,284	\$22,736,487	\$940,241	\$52,242	\$670,851	\$24,671,105
	Set gillnet	\$91,435	\$6,685,754	\$670,804	\$69,974	\$197,143	\$7,715,110
	Total	\$602,586	\$42,359,701	\$2,965,237	\$3,491,756	\$3,236,002	\$52,655,282
1991 <sup>a</sup>	Seine	\$66,000	\$6,100,000	\$620,000	\$3,776,000	\$1,750,000	\$12,312,000
	Drift gillnet	\$62,000	\$12,000,000	\$649,000	\$13,000	\$600,690	\$13,324,690
	Set gillnet	\$46,600	\$4,541,600	\$245,000	\$143,700	\$259,910	\$5,236,810
	Total	\$174,600	\$22,641,600	\$1,514,000	\$3,932,700	\$2,610,600	\$30,873,500
1992 <sup>a</sup>	Seine	\$102,000	\$17,044,000	\$1,162,000	\$5,315,000	\$2,534,000	\$26,157,000
	Drift gillnet	\$94,000	\$32,344,000	\$540,000	\$103,000	\$458,000	\$33,539,000
	Set gillnet	\$58,600	\$8,635,000	\$594,000	\$261,000	\$214,000	\$9,762,600
	Total	\$254,600	\$58,023,000	\$2,296,000	\$5,679,000	\$3,206,000	\$69,458,600
1993 <sup>a</sup>	Seine	\$140,000	\$10,261,000	\$402,000	\$4,521,000	\$1,640,000	\$16,964,000
	Drift gillnet	\$114,000	\$20,204,000	\$147,000	\$5,000	\$314,000	\$20,784,000
	Set gillnet	\$67,000	\$4,523,000	\$280,000	\$141,000	\$122,000	\$5,133,000
	Total	\$321,000	\$34,988,000	\$829,000	\$4,667,000	\$2,076,000	\$42,881,000
1994 <sup>a</sup>	Seine	\$91,430	\$5,525,400	\$655,025	\$4,987,020	\$3,298,450	\$14,557,325
	Drift gillnet	\$63,360	\$16,912,700	\$513,600	\$63,220	\$305,070	\$17,857,950
	Set gillnet	\$32,140	\$4,506,000	\$551,140	\$174,390	\$250,050	\$5,513,720
	Total	\$186,930	\$26,944,100	\$1,719,765	\$5,224,630	\$3,853,570	\$37,928,995
1995 <sup>a</sup>	Seine	\$215,270	\$9,365,000	\$492,000	\$9,460,760	\$2,118,300	\$21,651,330
	Drift gillnet	\$66,220	\$22,170,800	\$187,010	\$29,600	\$421,550	\$22,875,180
	Set gillnet	\$47,650	\$5,860,000	\$227,000	\$385,770	\$200,578	\$6,720,998
	Total	\$329,140	\$37,395,800	\$906,010	\$9,876,130	\$2,740,428	\$51,247,508

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Year	Gear	Exvessel value					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1996 <sup>a</sup>	Seine	\$27,168	\$2,846,000	\$448,000	\$361,702	\$260,600	\$3,943,470
	Drift gillnet	\$24,045	\$9,472,000	\$232,300	\$15,501	\$88,490	\$9,832,336
	Set gillnet	\$13,512	\$4,402,700	\$268,020	\$60,167	\$59,650	\$4,804,049
	Total	\$64,725	\$16,720,700	\$948,320	\$437,370	\$408,740	\$18,579,855
1997 <sup>a</sup>	Seine	\$32,730	\$3,302,000	\$79,150	\$1,029,510	\$342,200	\$4,785,590
	Drift gillnet	\$54,160	\$15,330,000	\$141,300	\$29,600	\$128,380	\$15,683,440
	Set gillnet	\$25,320	\$5,890,600	\$210,950	\$35,320	\$49,249	\$6,211,439
	Total	\$112,210	\$24,522,600	\$431,400	\$1,094,430	\$519,829	\$26,680,469
1998 <sup>a</sup>	Seine	\$21,007	\$3,777,000	\$221,000	\$3,058,500	\$356,000	\$7,433,507
	Drift gillnet	\$17,450	\$10,787,000	\$219,800	\$104,400	\$181,600	\$11,310,250
	Set gillnet	\$16,041	\$5,074,600	\$147,200	\$240,319	\$121,524	\$5,599,684
	Total	\$54,498	\$19,638,600	\$588,000	\$3,403,219	\$659,124	\$24,343,441
1999 <sup>a</sup>	Seine	\$21,000	\$7,086,000	\$236,000	\$3,000,016	\$368,023	\$10,711,039
	Drift gillnet	\$20,900	\$13,648,600	\$116,300	\$6,350	\$128,086	\$13,920,236
	Set gillnet	\$12,300	\$7,792,000	\$87,700	\$151,030	\$93,250	\$8,136,280
	Total	\$54,200	\$28,526,600	\$440,000	\$3,157,396	\$589,359	\$32,767,555
2000 <sup>a</sup>	Seine	\$19,040	\$3,430,000	\$332,110	\$1,372,000	\$616,000	\$5,769,150
	Drift gillnet	\$24,320	\$12,131,000	\$91,400	\$15,076	\$149,400	\$12,411,196
	Set gillnet	\$9,115	\$4,461,500	\$118,750	\$127,047	\$117,363	\$4,833,775
	Total	\$52,475	\$20,022,500	\$542,260	\$1,514,123	\$882,763	\$23,014,121
2001 <sup>a</sup>	Seine	\$4,658	\$522,000	\$144,001	\$1,219,050	\$646,616	\$2,536,325
	Drift gillnet	\$9,351	\$3,267,000	\$56,740	\$11,784	\$78,492	\$3,423,367
	Set gillnet	\$9,735	\$1,533,700	\$37,576	\$105,213	\$117,091	\$1,803,315
	Total	\$23,744	\$5,322,700	\$238,317	\$1,336,047	\$842,199	\$7,763,007
2002 <sup>a</sup>	Seine	\$15,969	\$1,276,000	\$106,401	\$634,000	\$455,537	\$2,487,907
	Drift gillnet	\$10,879	\$4,218,000	\$30,405	\$8,260	\$128,010	\$4,395,554
	Set gillnet	\$7,444	\$1,971,700	\$21,462	\$75,020	\$50,439	\$2,126,065
	Total	\$34,292	\$7,465,700	\$158,268	\$717,280	\$633,986	\$9,009,526
2003 <sup>a</sup>	Seine	\$6,824	\$1,091,084	\$52,000	\$743,012	\$324,911	\$2,217,831
	Drift gillnet	\$11,582	\$4,433,190	\$61,313	\$10,341	\$83,203	\$4,599,629
	Set gillnet	\$6,015	\$2,346,327	\$81,000	\$70,004	\$49,149	\$2,552,495
	Total	\$24,421	\$7,870,601	\$194,313	\$823,357	\$457,263	\$9,369,955
2004 <sup>a</sup>	Seine	\$37,019	\$3,439,099	\$125,000	\$1,456,300	\$407,504	\$5,464,922
	Drift gillnet	\$47,700	\$7,104,216	\$45,210	\$7,400	\$74,380	\$7,278,906
	Set gillnet	\$15,000	\$3,341,111	\$79,000	\$51,030	\$46,077	\$3,532,218
	Total	\$99,719	\$13,884,426	\$249,210	\$1,514,730	\$527,961	\$16,276,046

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Year	Gear	Exvessel value					Total
		Chinook	Sockeye	Coho	Pink	Chum	
2005 <sup>a</sup>	Seine	\$16,053	\$4,208,707	\$127,659	\$2,107,053	\$419,752	\$6,879,224
	Drift gillnet	\$40,844	\$10,755,107	\$111,737	\$13,092	\$84,776	\$11,005,556
	Set gillnet	\$16,674	\$4,646,029	\$101,015	\$100,064	\$65,000	\$4,928,782
	Total	\$73,571	\$19,609,843	\$340,411	\$2,220,209	\$569,528	\$22,813,562
2006 <sup>a</sup>	Seine	\$36,580	\$2,829,392	\$128,636	\$1,514,315	\$1,034,961	\$5,543,884
	Drift gillnet	\$32,072	\$7,407,573	\$132,248	\$12,290	\$127,860	\$7,712,043
	Set gillnet	\$17,264	\$3,255,140	\$213,534	\$100,192	\$69,010	\$3,655,140
	Total	\$85,916	\$13,492,105	\$474,418	\$1,626,797	\$1,231,831	\$16,911,067
2007 <sup>a</sup>	Seine	\$45,840	\$4,415,759	\$125,321	\$3,596,347	\$575,326	\$8,758,593
	Drift gillnet	\$40,059	\$13,695,882	\$108,545	\$7,851	\$165,827	\$14,018,165
	Set gillnet	\$13,563	\$3,291,054	\$160,702	\$287,656	\$71,606	\$3,824,582
	Total	\$99,463	\$21,402,695	\$394,568	\$3,891,854	\$812,759	\$26,601,340
2008 <sup>a</sup>	Seine	\$46,867	\$4,472,322	\$371,309	\$9,541,042	\$1,133,673	\$15,565,214
	Drift gillnet	\$31,881	\$10,361,856	\$367,529	\$82,363	\$322,817	\$11,166,446
	Set gillnet	\$7,750	\$1,880,303	\$220,740	\$528,362	\$149,294	\$2,786,450
	Total	\$86,499	\$16,714,481	\$959,577	\$10,151,768	\$1,605,785	\$29,518,109
2009 <sup>a</sup>	Seine	\$72,916	\$3,675,090	\$335,222	\$5,620,445	\$2,113,134	\$11,816,807
	Drift gillnet	\$50,839	\$10,899,678	\$118,655	\$50,627	\$221,517	\$11,341,317
	Set gillnet	\$8,739	\$2,899,156	\$150,406	\$383,826	\$245,021	\$3,687,147
	Total	\$132,494	\$17,473,924	\$604,283	\$6,054,898	\$2,579,672	\$26,845,271
2010 <sup>a</sup>	Seine	\$85,544	\$3,226,659	\$437,029	\$659,303	\$2,065,524	\$6,474,059
	Drift gillnet	\$57,822	\$12,308,805	\$147,577	\$7,896	\$411,124	\$12,933,225
	Set gillnet	\$10,890	\$2,676,218	\$173,059	\$60,257	\$280,757	\$3,201,181
	Total	\$154,256	\$18,211,682	\$757,665	\$727,456	\$2,757,405	\$22,608,464
2011 <sup>a</sup>	Seine	\$63,660	\$4,911,683	\$370,767	\$6,434,699	\$2,744,217	\$14,525,026
	Drift gillnet	\$53,506	\$7,379,768	\$101,600	\$63,151	\$763,395	\$8,361,420
	Set gillnet	\$17,367	\$2,970,435	\$125,233	\$294,770	\$450,820	\$3,858,625
	Total	\$134,533	\$15,261,886	\$597,600	\$6,792,620	\$3,958,432	\$26,745,071
2012 <sup>a</sup>	Seine	\$56,355	\$4,549,968	\$123,718	\$651,284	\$1,509,794	\$6,891,119
	Drift gillnet	\$68,892	\$6,738,782	\$155,273	\$18,532	\$1,085,438	\$8,066,917
	Set gillnet	\$8,604	\$2,365,519	\$69,982	\$33,321	\$119,919	\$2,597,345
	Total	\$133,851	\$13,654,269	\$348,973	\$703,137	\$2,715,151	\$17,555,381
2013 <sup>a</sup>	Seine	\$29,626	\$7,013,518	\$486,649	\$7,998,347	\$1,915,453	\$17,443,593
	Drift gillnet	\$22,661	\$9,901,890	\$387,126	\$84,853	\$478,281	\$10,874,811
	Set gillnet	\$11,991	\$4,324,702	\$129,595	\$275,443	\$160,496	\$4,902,227
	Total	\$64,278	\$21,240,110	\$1,003,370	\$8,358,643	\$2,554,230	\$33,220,631

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Year	Gear	Exvessel value					Total
		Chinook	Sockeye	Coho	Pink	Chum	
2014 <sup>a</sup>	Seine	\$46,614	\$4,842,916	\$493,655	\$577,164	\$1,187,271	\$7,147,621
	Drift gillnet	\$19,193	\$14,854,451	\$374,272	\$45,147	\$325,622	\$15,618,684
	Set gillnet	\$8,999	\$4,557,734	\$243,335	\$51,308	\$137,245	\$4,998,620
	Total	\$74,805	\$24,255,101	\$1,111,262	\$673,620	\$1,650,138	\$27,764,925
2004–2013 Average <sup>a</sup>	Seine	\$49,046	\$4,274,220	\$263,131	\$3,957,914	\$1,391,934	\$9,936,244
	Drift gillnet	\$44,628	\$9,655,356	\$167,550	\$34,806	\$373,542	\$10,275,881
	Set gillnet	\$12,784	\$3,164,967	\$142,327	\$211,492	\$165,800	\$3,697,370
	Total	\$106,458	\$17,094,542	\$573,008	\$4,204,211	\$1,931,275	\$23,909,494
1994–2003 Average <sup>a</sup>	Seine	\$45,510	\$3,822,048	\$276,569	\$2,586,557	\$878,664	\$7,609,347
	Drift gillnet	\$30,227	\$11,237,029	\$165,017	\$29,413	\$169,228	\$11,630,914
	Set gillnet	\$17,927	\$4,383,913	\$175,080	\$142,428	\$110,834	\$4,830,182
	Total	\$93,664	\$19,442,990	\$616,665	\$2,758,398	\$1,158,726	\$24,070,443

Note: Due to confidentiality requirements, significant differences in totals may occur between tables.

<sup>a</sup> Exvessel information is from Area M fishermen only and does not include exvessel information from Area F.

Appendix A5.—Average weights and approximate exvessel prices for salmon in the Alaska Peninsula, Aleutian Islands, and Atka-Amlia areas, 1979–2014.

Year	Average weight (lbs)					Average price (\$/lb) <sup>a</sup>				
	Chinook	Sockeye	Coho	Pink	Chum	Chinook	Sockeye	Coho	Pink	Chum
1979	22.9	5.8	7.4	3.6	7.3	1.18	1.10	0.92	0.38	0.53
1980	19.4	5.2	6.4	3.2	6.6	0.72	0.62	0.58	0.40	0.44
1981	17.9	5.8	7.5	3.6	7.2	1.02	1.00	0.70	0.42	0.45
1982	19.6	5.9	7.8	3.1	7.4	1.21	0.85	0.70	0.25	0.40
1983	17.5	5.5	7.6	3.8	6.9	0.71	0.86	0.49	0.27	0.33
1984	19.5	5.7	7.8	3.6	7.2	1.11	0.83	0.63	0.25	0.28
1985	19.5	5.4	7.8	4.1	7.0	1.06	1.09	0.75	0.21	0.31
1986	17.4	6.0	7.1	3.4	7.1	0.75	1.41	0.70	0.20	0.35
1987	18.6	6.3	7.6	3.5	7.1	1.20	1.65	0.98	0.25	0.39
1988	17.1	6.0	7.5	3.6	7.5	1.41	2.36	1.16	0.78	0.83
1989	17.9	5.8	7.3	3.8	6.8	1.14	1.54	0.82	0.35	0.40
1990	16.4	5.7	7.5	3.1	6.6	1.25	1.53	0.79	0.31	0.36
1991	16.4	5.6	6.9	3.1	6.4	0.77	0.86	0.53	0.12	0.23
1992	16.4	5.6	6.9	3.3	6.7	0.97	1.47	0.63	0.17	0.29
1993	17.2	5.7	6.3	3.4	6.3	0.80	0.82	0.49	0.14	0.28
1994	18.4	5.5	8.2	3.4	6.7	0.61	1.01	0.57	0.15	0.25
1995	19.8	5.4	6.7	3.6	7.0	0.74	1.10	0.42	0.17	0.22
1996	17.1	6.0	7.3	3.3	7.4	0.40	0.81	0.34	0.06	0.07
1997	16.0	5.8	7.4	3.3	6.8	0.55	0.97	0.40	0.15	0.11
1998	15.3	5.7	7.6	3.5	7.1	0.40	1.06	0.38	0.12	0.12
1999	15.1	5.3	6.1	3.1	6.8	0.39	1.13	0.30	0.12	0.10
2000	15.4	5.9	6.9	2.9	7.6	0.38	0.86	0.26	0.14	0.10
2001	14.2	6.0	6.9	3.7	7.7	0.25	0.51	0.15	0.09	0.10
2002	13.4	5.5	6.8	3.6	7.3	0.25	0.55	0.10	0.08	0.10
2003	13.4	6.0	7.6	3.8	6.8	0.25	0.52	0.14	0.05	0.10
2004	16.0	5.7	6.7	3.3	6.6	0.36	0.52	0.14	0.07	0.10
2005	13.5	6.1	6.9	3.2	6.6	0.40	0.59	0.24	0.07	0.11
2006	13.8	5.8	6.6	3.4	7.5	0.70	0.56	0.28	0.09	0.14
2007	12.9	5.6	6.7	3.7	7.1	0.60	0.65	0.27	0.13	0.13
2008	12.9	5.6	6.7	3.7	7.1	0.92	0.72	0.36	0.22	0.23
2009	15.9	5.9	6.6	3.2	6.9	0.92	0.71	0.29	0.18	0.21
2010	13.8	5.7	7.1	3.0	7.1	1.04	0.91	0.47	0.28	0.38
2011	13.2	5.9	6.2	3.3	6.7	1.05	0.91	0.56	0.36	0.46
2012	16.0	5.9	6.3	3.1	7.3	0.99	0.84	0.45	0.35	0.43
2013	11.9	5.9	6.5	3.1	7.2	0.86	1.22	0.48	0.35	0.33
2014	12.6	5.6	7.5	3.5	6.7	1.00	1.27	0.43	0.23	0.37
1983–2002										
Average	16.7	5.7	7.2	3.5	7.0	0.73	1.10	0.53	0.20	0.25
2003–2012										
Average	14.0	5.8	6.6	3.3	7.0	0.78	0.76	0.35	0.21	0.25

<sup>a</sup> Does not include processor bonuses, incentives, refrigerated sea water, or postseason adjustments.

Appendix A6.—Number of Area M and Area T limited entry permits and fishing effort in the Alaska Peninsula and Aleutian Islands Management areas, 1975–2014.

Year	Purse seine		Drift gillnet			Set gillnet		
	Area M active permits <sup>a</sup>	Area M permits fished <sup>b</sup>	Area M active permits <sup>a</sup>	Area M permits fished <sup>b</sup>	Area T permits fished <sup>b,c</sup>	Area M active permits <sup>a</sup>	Area M permits fished <sup>b</sup>	Area T permits fished <sup>b,c</sup>
1975	126	56	173	102	6	110	40	<sup>d</sup>
1976	114	90	155	118	10	116	53	6
1977	113	87	156	114	15	109	57	8
1978	123	115	158	133	26	114	61	8
1979	123	136	161	178	21	115	86	10
1980	125	126	163	157	25	115	88	16
1981	127	122	164	155	18	117	88	21
1982	127	119	164	159	23	117	94	18
1983	127	122	166	159	18	116	94	7
1984	126	121	165	158	44	115	103	15
1985	127	123	165	158	44	115	103	18
1986	125	121	165	163	37	116	100	7
1987	125	116	165	163	48	116	108	9
1988	124	114	163	162	59	116	106	14
1989	126	119	164	158	64	116	111	18
1990	126	121	164	166	63	116	114	15
1991	126	126	164	162	68	116	111	12
1992	125	119	164	161	102	116	111	18
1993	125	123	164	162	50	116	114	11
1994	124	118	164	164	77	116	108	9
1995	124	118	164	164	81	116	110	12
1996	124	102	164	164	32	116	110	6
1997	122	82	164	158	42	116	110	10
1998	122	79	164	159	60	115	112	7
1999	121	74	164	160	21	115	107	<sup>d</sup>
2000	121	76	161	156	27	115	109	<sup>d</sup>
2001	121	64	160	137	4	115	99	<sup>d</sup>
2002	122	42	160	114	<sup>d</sup>	115	92	0
2003	120	46	160	110	4	115	86	0
2004	122	42	161	117	<sup>d</sup>	115	86	0
2005	121	46	162	131	10	115	93	<sup>d</sup>
2006	119	43	162	133	6	114	95	0
2007	118	46	162	127	0	114	90	0
2008	118	55	162	131	0	113	83	0
2009	119	54	162	143	0	113	91	<sup>d</sup>
2010	119	63	162	142	0	113	84	0
2011	119	59	162	144	0	113	93	0
2012	119	56	162	133	0	113	88	0
2013	119	61	162	133	0	113	90	0
2014	119	46	162	110	0	113	45	0
2004–2013								
Average	119	53	162	133	2	114	89	0

<sup>a</sup> Active Permits are defined as follows: all permanent permits, regardless of whether they have been renewed, and interim use and interim entry permits that have been issued. Excluded from Active Permits are any permits that have been revoked and interim permits that have not been issued (renewed) for the given year.

<sup>b</sup> Making at least 1 delivery during the year.

<sup>c</sup> During a portion of the season, in specific sections, Area T set and drift gillnet fishermen are allowed to fish in portions of the Alaska Peninsula Area.

<sup>d</sup> Confidentiality requirements prohibit the release of this information.

Appendix A7.—Number of Area T permit holders fishing by general location in the Alaska Peninsula Area, 1984–2014.

Year	Drift gillnet				Set gillnet		
	Ilnik and Outer Port Heiden <sup>a</sup>	Inner Port Heiden	Cinder River	Total Area T	Inner Port Heiden	Cinder River	Total Area T
1984	8	19	25	52	4	11	15
1985	0	25	23	48	6	11	18
1986	13	23	<sup>b</sup>	37	7	0	7
1987	17	23	10	50	5	4	9
1988	22	28	18	68	7	7	14
1989	34	22	15	71	5	13	18
1990	0	28	39	67	5	11	15
1991	0	22	50	72	4	8	12
1992	0	20	85	105	4	14	18
1993	0	17	34	51	<sup>b</sup>	8	<sup>b</sup>
1994	0	18	59	77	<sup>b</sup>	7	<sup>b</sup>
1995	0	19	62	81	5	7	12
1996	0	0	32	32	0	6	6
1997	0	17	25	42	<sup>b</sup>	7	<sup>b</sup>
1998	0	10	50	60	<sup>b</sup>	6	<sup>b</sup>
1999	0	9	12	21	0	<sup>b</sup>	<sup>b</sup>
2000	0	12	15	27	<sup>b</sup>	<sup>b</sup>	<sup>b</sup>
2001	0	0	4	4	0	<sup>b</sup>	<sup>b</sup>
2002	0	0	<sup>b</sup>	<sup>b</sup>	0	0	0
2003	0	0	4	4	0	0	0
2004	0	0	<sup>b</sup>	<sup>b</sup>	0	0	0
2005	0	4	6	10	0	<sup>b</sup>	<sup>b</sup>
2006	0	6	0	6	0	0	0
2007	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0
2009	0	0	0	0	0	<sup>b</sup>	0
2010	0	0	0	0	0	0	0
2011	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0

<sup>a</sup> The Outer Port Heiden Section was closed to commercial salmon fishing, and after 1989 the Alaska Board of Fisheries adopted regulation that closed the Ilnik Section except Ilnik Lagoon to Area T permit holders.

<sup>b</sup> Confidentiality requirements prohibit the release of this information.



## **APPENDIX B. COMMERCIAL HARVEST DATA**

Appendix B1.—Alaska Peninsula and Aleutian Islands commercial salmon harvest in numbers of fish by year, in the South Alaska Peninsula, North Alaska Peninsula, Aleutian Islands, and Atka-Amlia areas, 1906–2014.

Year	Area	Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1906	South Peninsula	0	0	0	0	0	0
	North Peninsula	1,500	135,000	0	0	0	136,500
	Aleutian Islands	0	0	0	0	0	0
	Total	1,500	135,000	0	0	0	136,500
1907	South Peninsula	0	0	0	0	0	0
	North Peninsula	1,700	66,500	3,200	1,500	0	72,900
	Aleutian Islands	0	0	0	0	0	0
	Total	1,700	66,500	3,200	1,500	0	72,900
1908	South Peninsula	0	69,400	0	0	0	69,400
	North Peninsula	1,500	166,900	0	0	0	168,400
	Aleutian Islands	0	0	0	0	0	0
	Total	1,500	236,300	0	0	0	237,800
1909	South Peninsula	0	108,400	7,200	0	0	115,600
	North Peninsula	1,500	143,000	0	0	1,000	145,500
	Aleutian Islands	0	0	0	0	0	0
	Total	1,500	251,400	7,200	0	1,000	261,100
1910	South Peninsula	0	46,300	5,500	0	0	51,800
	North Peninsula	0	0	0	0	0	0
	Aleutian Islands	0	0	0	0	0	0
	Total	0	46,300	5,500	0	0	51,800
1911	South Peninsula	0	240,800	12,400	25,200	83,000	361,400
	North Peninsula	0	129,600	0	0	0	129,600
	Aleutian Islands	0	9,300	0	0	0	9,300
	Total	0	379,700	12,400	25,200	83,000	500,300
1912	South Peninsula	0	334,400	27,000	40,400	195,000	596,800
	North Peninsula	900	252,700	11,000	0	2,400	267,000
	Aleutian Islands	0	0	0	0	0	0
	Total	900	587,100	38,000	40,400	197,400	863,800
1913	South Peninsula	1,800	299,700	0	0	7,000	308,500
	North Peninsula	600	888,800	18,700	0	2,000	910,100
	Aleutian Islands	0	0	0	0	0	0
	Total	2,400	1,188,500	18,700	0	9,000	1,218,600
1914	South Peninsula	600	628,900	0	311,000	221,100	1,171,500
	North Peninsula	8,100	1,325,100	0	0	0	1,333,200
	Aleutian Islands	0	0	0	0	0	0
	Total	8,700	1,954,000	9,900	311,000	221,100	2,504,700
1915	South Peninsula	4,800	367,900	16,200	120,100	333,100	842,100
	North Peninsula	14,000	1,974,300	0	0	54,800	2,043,100
	Aleutian Islands	0	0	0	0	0	0
	Total	18,800	2,342,200	16,200	120,100	387,900	2,885,200

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1916	South Peninsula	6,800	730,900	34,100	576,100	508,900	1,856,800
	North Peninsula	44,200	1,974,700	0	2,600	191,400	2,212,900
	Aleutian Islands	0	76,500	1,200	180,300	100	258,100
	Total	51,000	2,782,100	35,300	759,000	700,400	4,327,800
1917	South Peninsula	6,400	1,486,100	4,600	72,100	415,500	1,984,700
	North Peninsula	20,000	679,600	6,800	600	90,300	797,300
	Aleutian Islands	0	70,400	3,800	600	23,100	97,900
	Total	26,400	2,236,100	15,200	73,300	528,900	2,879,900
1918	South Peninsula	8,700	1,014,100	16,300	2,150,000	1,501,000	4,690,900
	North Peninsula	9,700	1,208,500	0	1,200	252,300	1,471,700
	Aleutian Islands	0	55,200	4,400	75,600	135,200	270,400
	Total	18,400	2,277,800	20,700	2,227,600	1,888,500	6,433,000
1919	South Peninsula	9,600	619,100	56,100	80,200	921,400	1,686,400
	North Peninsula	19,600	389,200	0	12,000	143,500	564,300
	Aleutian Islands	0	3,900	800	4,000	0	8,700
	Total	29,200	1,012,200	56,900	96,200	1,064,900	2,259,400
1920	South Peninsula	7,800	1,142,300	47,700	2,109,800	934,000	4,241,600
	North Peninsula	19,000	1,371,900	0	0	37,000	1,427,900
	Aleutian Islands	0	10,100	2,800	0	0	12,900
	Total	26,800	2,524,300	50,500	2,109,800	971,000	5,682,400
1921	South Peninsula	700	830,700	1,500	47,300	84,600	964,800
	North Peninsula	12,500	1,746,500	0	0	32,800	1,791,800
	Aleutian Islands	0	0	0	0	0	0
	Total	13,200	2,577,200	1,500	47,300	117,400	2,756,600
1922	South Peninsula	6,900	3,376,800	2,200	756,700	349,300	4,491,900
	North Peninsula	10,400	667,900	0	0	42,900	721,200
	Aleutian Islands	0	14,000	0	0	0	14,000
	Total	17,300	4,058,700	2,200	756,700	392,200	5,227,100
1923	South Peninsula	4,100	1,827,200	75,300	143,600	538,900	2,589,100
	North Peninsula	9,100	731,700	100	0	25,800	766,700
	Aleutian Islands	0	0	0	0	0	0
	Total	13,200	2,558,900	75,400	143,600	564,700	3,355,800
1924	South Peninsula	3,900	1,352,000	127,300	3,931,300	1,330,700	6,745,200
	North Peninsula	10,500	701,700	0	0	48,400	760,600
	Aleutian Islands	0	24,900	0	673,800	100	698,800
	Total	14,400	2,078,600	127,300	4,605,100	1,379,200	8,204,600
1925	South Peninsula	10,700	820,500	127,100	382,100	1,116,800	2,457,200
	North Peninsula	10,600	400,200	0	0	53,900	464,700
	Aleutian Islands	0	18,600	0	3,800	9,100	31,500
	Total	21,300	1,239,300	127,100	385,900	1,179,800	2,953,400
1926	South Peninsula	9,500	3,071,500	193,800	3,719,700	1,179,800	8,174,300
	North Peninsula	23,900	672,900	0	0	71,500	768,300
	Aleutian Islands	0	1,300	0	521,700	7,800	530,800
	Total	33,400	3,745,700	193,800	4,241,400	1,259,100	9,473,400

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1927	South Peninsula	9,600	714,700	125,300	1,455,500	1,299,700	3,604,800
	North Peninsula	16,500	230,600	100	0	87,000	334,200
	Aleutian Islands	0	17,300	0	334,600	0	351,900
	Total	26,100	962,600	125,400	1,790,100	1,386,700	4,290,900
1928	S.Pen and Aleutian Is.	7,700	971,500	96,600	900,900	2,416,300	4,393,000
	North Peninsula	4,600	855,600	0	0	83,500	943,700
	Total	12,300	1,827,100	96,600	900,900	2,499,800	5,336,700
1929	S.Pen and Aleutian Is.	10,500	935,800	84,500	1,793,500	2,429,000	5,253,300
	North Peninsula	4,100	878,000	0	0	145,200	1,027,300
	Total	14,600	1,813,800	84,500	1,793,500	2,574,200	6,280,600
1930	S.Pen and Aleutian Is.	10,900	935,200	161,100	6,094,800	1,278,100	8,480,100
	North Peninsula	3,800	167,700	0	0	93,400	265,200
	Total	14,700	1,102,900	161,100	6,094,800	1,371,800	8,745,300
1931	S.Pen and Aleutian Is.	11,000	1,863,200	128,700	997,900	1,216,000	4,211,800
	North Peninsula	1,300	761,000	0	0	54,900	817,200
	Total	12,300	2,624,200	128,700	997,900	1,265,900	5,029,000
1932	S.Pen and Aleutian Is.	17,400	2,977,300	112,300	3,604,800	817,300	7,529,100
	North Peninsula	3,200	977,100	0	0	56,300	1,036,600
	Total	20,600	3,954,400	112,300	3,604,800	873,600	8,565,700
1933	S.Pen and Aleutian Is.	12,600	1,996,700	190,000	3,109,200	1,173,900	6,482,400
	North Peninsula	1,100	350,100	0	0	16,000	367,200
	Total	13,700	2,346,800	190,000	3,109,200	1,189,900	6,849,600
1934	S.Pen and Aleutian Is.	17,600	1,372,400	247,100	6,538,500	1,940,300	10,115,900
	North Peninsula	1,600	1,091,300	0	400	13,000	1,106,300
	Total	19,200	2,463,700	247,100	6,538,900	1,953,300	11,222,200
1935	S.Pen and Aleutian Is.	13,900	978,400	117,200	5,386,200	2,003,100	8,498,800
	North Peninsula	1,000	479,200	0	100	33,800	514,100
	Total	14,900	1,457,600	117,200	5,386,300	2,036,900	9,012,900
1936	S.Pen and Aleutian Is.	14,400	3,662,600	284,600	9,471,000	2,310,900	15,743,500
	North Peninsula	1,000	610,700	0	2,800	19,000	633,500
	Total	15,400	4,273,300	284,600	9,473,800	2,329,900	16,377,000
1937	S.Pen and Aleutian Is.	9,300	1,558,000	73,900	9,302,000	1,506,700	12,449,900
	North Peninsula	1,600	860,900	0	100	65,600	928,200
	Total	10,900	2,418,900	73,900	9,302,100	1,572,300	13,378,100
1938	S.Pen and Aleutian Is.	6,400	772,100	220,700	7,169,100	1,476,600	9,644,900
	North Peninsula	5,900	1,009,600	0	0	34,700	1,050,200
	Total	12,300	1,781,700	220,700	7,169,100	1,511,300	10,695,100
1939	S.Pen and Aleutian Is.	16,500	1,881,700	98,900	6,005,300	1,440,600	9,443,000
	North Peninsula	3,900	746,200	0	0	82,200	832,300
	Total	20,400	2,527,900	98,900	6,005,300	1,522,800	10,275,300
1940	S.Pen and Aleutian Is.	9,100	1,040,300	184,200	7,182,800	2,326,300	10,472,700
	North Peninsula	700	678,900	0	0	65,600	745,200
	Total	9,800	1,719,200	184,200	7,182,800	2,391,900	11,487,900

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1941	S.Pen and Aleutian Is.	13,000	1,072,000	183,000	5,347,000	1,542,000	8,157,800
	North Peninsula	700	491,700	0	3,200	30,200	525,800
	Total	13,700	1,563,700	183,000	5,350,200	1,572,200	8,682,800
1942	S.Pen and Aleutian Is.	4,800	810,100	123,000	6,762,600	1,321,100	9,021,600
	North Peninsula	0	0	0	0	0	0
	Total	4,800	810,100	123,000	6,762,600	1,321,100	9,021,600
1943	S.Pen and Aleutian Is.	21,700	2,397,700	90,600	4,360,200	924,500	7,794,700
	North Peninsula	200	567,400	0	1,300	50,400	619,300
	Total	21,900	2,965,100	90,600	4,361,500	974,900	8,414,000
1944	S.Pen and Aleutian Is.	9,900	538,600	238,700	2,653,800	985,600	4,426,600
	North Peninsula	100	414,700	0	2,600	157,900	575,300
	Total	10,000	953,300	238,700	2,656,400	1,143,500	5,001,900
1945	S.Pen and Aleutian Is.	21,400	813,400	116,100	3,639,600	948,900	5,539,400
	North Peninsula	100	394,400	0	2,500	335,100	732,100
	Total	21,500	1,207,800	116,100	3,642,100	1,284,000	6,271,500
1946	S.Pen and Aleutian Is.	6,100	752,300	151,400	1,964,000	1,219,900	4,093,700
	North Peninsula	2,500	697,700	300	0	36,000	736,500
	Total	8,600	1,450,000	151,700	1,964,000	1,255,900	4,830,200
1947	S.Pen and Aleutian Is.	3,400	1,137,100	55,800	2,319,600	1,219,200	4,735,100
	North Peninsula	100	357,700	100	100	75,000	433,000
	Total	3,500	1,491,800	55,900	2,319,700	1,294,200	5,168,100
1948	S.Pen and Aleutian Is.	1,200	285,900	39,200	1,683,700	1,139,600	3,149,600
	North Peninsula	1,200	477,600	17,200	0	161,700	658,700
	Total	3,400	763,500	56,400	1,683,700	1,301,300	3,808,300
1949	S.Pen and Aleutian Is.	3,800	637,500	19,500	1,544,000	560,900	2,765,700
	North Peninsula	700	137,100	25,700	0	40,700	204,200
	Total	4,500	774,600	45,200	1,544,000	601,600	2,969,900
1950	S.Pen and Aleutian Is.	4,000	1,745,300	70,700	1,613,700	562,500	3,996,200
	North Peninsula	1,100	127,800	37,800	0	217,600	284,300
	Total	5,100	1,873,100	108,500	1,613,700	780,100	4,380,500
1951	South Peninsula	1,500	264,200	55,700	2,844,800	683,100	3,849,300
	North Peninsula	1,200	358,900	32,900	20,400	203,000	616,400
	Aleutians	0	11,700	400	500	94,500	107,100
	Total	2700	634,800	89000	2865700	980,600	4,572,800
1952	South Peninsula	9,200	894,500	39,200	908,500	1,040,800	2,892,200
	North Peninsula	700	354,800	54,200	1,400	246,900	658,000
	Aleutian Islands	200	42,800	0	31,800	25,700	100,500
	Total	10,100	1,292,100	93,400	941,700	1,313,400	3,650,700
1953	South Peninsula	7,200	1,039,200	47,900	2,743,900	1,464,600	5,302,800
	North Peninsula	800	537,300	26,200	18,300	224,400	807,000
	Aleutian Islands	0	4,200	500	69,200	800	74,700
	Total	8,000	1,580,700	74,600	2,831,400	1,689,800	6,184,500

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1954	South Peninsula	4,200	636,300	49,400	2,033,300	1,413,400	4,136,600
	North Peninsula	3,400	354,700	35,000	18,500	405,000	816,600
	Aleutian Islands	0	6,300	800	566,500	200	573,800
	Total	7,600	997,300	85,200	2,618,300	1,818,600	5,527,000
1955	South Peninsula	5,400	550,100	44,800	2,529,200	688,200	3,817,700
	North Peninsula	4,100	586,600	6,200	900	129,600	727,400
	Aleutian Islands	0	12,600	100	31,100	400	44,200
	Total	9,500	1,149,300	51,100	2,561,200	818,200	4,589,300
1956	South Peninsula	4,800	641,400	61,900	2,740,700	1,618,700	5,067,500
	North Peninsula	4,200	1,370,900	8,200	28,500	427,400	1,839,200
	Aleutian Islands	0	400	0	33,900	0	34,300
	Total	9,000	2,012,700	70,100	2,803,100	2,046,100	6,941,000
1957	South Peninsula	5,800	341,900	49,900	913,100	1,281,400	2,592,100
	North Peninsula	1,000	327,900	18,300	3,300	274,900	625,400
	Aleutian Islands	2,300	27,300	100	500	13,900	44,100
	Total	9,100	697,100	68,300	916,900	1,570,200	3,261,600
1958	South Peninsula	800	186,100	70,600	1,385,200	841,000	2,483,700
	North Peninsula	15,000	473,800	57,100	60,400	254,800	861,100
	Aleutian Islands	0	300	0	613,200	3,700	617,200
	Total	15,800	660,200	127,700	2,058,800	1,099,500	3,962,000
1959	South Peninsula	900	217,500	8,500	915,600	711,700	1,854,200
	North Peninsula	28,700	634,900	59,100	9,600	404,700	1,137,000
	Aleutian Islands	0	6,100	0	12,000	100	18,200
	Total	29,600	858,500	67,600	937,200	1,116,500	3,009,400
1960	South Peninsula	1,700	379,000	1,800	1,197,500	904,400	2,484,400
	North Peninsula	10,400	692,800	44,000	34,700	607,200	1,389,100
	Aleutian Islands	0	7,600	0	444,900	300	452,800
	Total	12,100	1,079,400	45,800	1,677,100	1,511,900	4,326,300
1961	South Peninsula	900	456,800	10,400	1,727,800	748,600	2,944,500
	North Peninsula	6,100	387,700	24,600	3,000	153,300	574,700
	Aleutian Islands	0	2,700	0	94,000	200	96,900
	Total	7,000	847,200	35,000	1,824,800	902,100	3,616,100
1962	South Peninsula	3,300	420,000	12,500	1,965,500	824,800	3,226,100
	North Peninsula	5,400	249,700	35,200	31,200	34,900	356,400
	Aleutian Islands	0	5,500	100	2,001,700	1,200	2,008,500
	Total	8,700	675,200	47,800	3,998,400	860,900	5,591,000
1963	South Peninsula	1,900	204,400	16,500	2,367,700	461,300	3,051,800
	North Peninsula	3,600	225,200	40,500	6,900	49,900	326,100
	Aleutian Islands	0	4,500	0	93,900	300	98,700
	Total	5,500	434,100	57,000	2,468,500	511,500	3,476,600
1964	South Peninsula	2,000	370,800	13,600	2,740,400	751,000	3,877,800
	North Peninsula	3,600	250,800	36,600	6,800	139,000	436,800
	Aleutian Islands	0	200	0	194,100	2,300	196,600
	Total	5,600	621,800	50,200	2,941,300	892,300	4,511,200

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1965	South Peninsula	2,100	915,700	34,200	2,884,100	556,400	4,392,500
	North Peninsula	6,100	199,500	34,500	2,100	69,700	311,900
	Aleutian Islands	0	0	0	0	0	0
	Total	8,200	1,115,200	68,700	2,886,200	626,100	4,704,400
1966	South Peninsula	1,400	606,200	6,300	302,300	494,400	1,410,600
	North Peninsula	5,600	245,300	37,300	16,000	82,800	387,000
	Aleutian Islands	0	1,000	0	63,500	700	65,200
	Total	7,000	852,500	43,600	381,800	577,900	1,862,800
1967	South Peninsula	1,600	294,100	2,900	77,800	245,200	621,600
	North Peninsula	5,500	224,700	46,800	700	41,300	319,000
	Aleutians	0	200	0	7,900	0	8,100
	Total	7,100	519,000	49,700	86,400	286,500	948,700
1968	South Peninsula	1,400	699,800	31,100	1,287,100	325,300	2,344,700
	North Peninsula	4,500	237,100	64,900	200	73,500	380,200
	Aleutian Islands	0	2,000	100	902,800	800	905,700
	Total	5,900	938,900	96,100	2,190,100	399,600	3,630,600
1969	South Peninsula	1,900	912,800	10,900	1,219,400	389,200	2,534,200
	North Peninsula	4,800	321,300	49,100	100	28,100	403,400
	Aleutian Islands	0	1,900	0	242,200	1,500	245,600
	Total	6,700	1,236,000	60,000	1,461,700	418,800	3,183,200
1970	South Peninsula	1,806	1,779,525	32,571	1,737,985	993,349	4,545,236
	North Peninsula	3,829	187,793	26,327	7,904	47,989	273,842
	Aleutian Islands	6	208	135	644,121	3,029	647,499
	Total	5,644	1,967,526	59,033	2,390,010	1,044,367	5,466,580
1971	South Peninsula	2,174	716,087	16,907	1,445,031	1,365,957	3,546,156
	North Peninsula	2,187	353,784	8,222	297	64,154	428,644
	Aleutian Islands	0	333	2	45,114	58	45,507
	Total	4,361	1,070,204	25,131	1,490,442	1,430,169	4,020,307
1972	South Peninsula	1,332	557,422	8,021	78,221	731,814	1,376,810
	North Peninsula	1,790	179,325	9,684	129	84,687	275,615
	Aleutian Islands	0	69	1	2,784	6	2,860
	Total	3,122	736,816	17,706	81,134	816,507	1,655,285
1973	South Peninsula	415	330,091	6,599	58,051	292,943	688,099
	North Peninsula	2,569	165,388	19,776	143	152,773	340,649
	Aleutian Islands	0	0	0	2,042	0	2,042
	Total	3,042	495,481	26,375	60,236	445,716	1,030,850
1974	South Peninsula	581	197,153	9,366	100,601	71,826	379,527
	North Peninsula	2,710	246,209	16,799	10,599	34,417	310,734
	Aleutian Islands	0	0	0	0	0	0
	Total	3,301	443,362	26,165	111,200	106,243	690,271
1975	South Peninsula	117	243,548	67	60,642	130,750	435,124
	North Peninsula	2,093	233,293	28,349	295	8,770	272,800
	Aleutian Islands	0	19,402	0	659	1,881	21,942
	Total	2,210	496,243	28,422	61,596	141,401	729,872

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1976	South Peninsula	2,196	375,027	216	2,366,833	532,503	3,276,775
	North Peninsula	4,947	641,134	26,061	672	73,589	746,403
	Aleutian Islands	0	0	0	0	0	0
	Total	7,149	1,016,161	26,277	2,367,505	606,092	4,023,184
1977	South Peninsula	559	311,722	2,108	1,448,648	243,167	2,006,204
	North Peninsula	5,489	472,006	34,137	888	129,168	641,688
	Aleutian Islands	0	0	0	0	0	0
	Total	6,048	783,728	36,245	1,449,536	372,335	2,647,892
1978	South Peninsula	773	579,411	60,774	5,590,145	546,182	6,777,285
	North Peninsula	13,524	896,616	63,341	485,224	163,804	1,622,509
	Aleutian Islands	0	1,829	0	38,109	6	39,944
	Total	15,031	1,477,856	124,115	6,113,478	709,992	8,440,472
1979	South Peninsula	2,141	1,149,927	356,867	6,564,914	482,930	8,556,779
	North Peninsula	15,704	1,979,167	112,835	4,994	65,711	2,178,411
	Aleutian Islands	0	12,206	0	539,393	242	551,841
	Total	19,248	3,141,300	469,702	7,109,301	548,883	11,288,434
1980	South Peninsula	4,794	3,613,025	274,181	7,861,470	1,353,112	13,106,582
	North Peninsula	16,627	1,397,118	127,878	301,672	700,196	2,543,491
	Aleutian Islands	2	9,226	2	2,597,461	4,874	2,611,565
	Total	21,601	5,019,370	402,061	10,760,603	2,058,183	18,261,818
1981	South Peninsula	11,182	2,241,513	162,223	5,033,028	1,768,475	9,216,421
	North Peninsula	18,385	1,844,335	155,420	11,217	706,818	2,736,175
	Aleutian Islands	16	5,430	188	302,786	6,553	314,973
	Total	30,073	4,091,278	317,831	5,347,031	2,481,846	12,268,059
1982	South Peninsula	9,845	2,345,981	256,046	6,734,905	2,272,495	11,619,272
	North Peninsula	29,770	1,435,277	238,016	12,321	331,133	2,046,517
	Aleutian Islands	0	2,672	28	1,447,818	6,148	1,456,666
	Total	39,958	3,783,933	494,090	8,195,044	2,609,776	15,122,801
1983	South Peninsula	26,571	2,556,557	127,657	2,827,622	1,704,072	7,242,479
	North Peninsula	29,006	2,090,142	75,138	3,404	348,307	2,545,997
	Aleutian Islands	0	4,405	0	2,005	11,361	17,771
	Total	56,050	4,654,336	202,795	2,833,031	2,064,155	9,810,367
1984 <sup>b</sup>	South Peninsula	9,198	2,318,028	310,950	11,589,258	1,654,622	15,882,056
	North Peninsula	22,747	1,734,851	198,582	27,419	796,723	2,780,322
	Aleutian Islands	26	67,163	1,923	2,309,665	32,025	2,410,802
	Total	32,190	4,120,047	511,455	13,926,342	2,483,375	21,073,409
1985	South Peninsula	6,642	2,144,416	172,514	4,431,016	1,348,726	8,103,314
	North Peninsula	23,403	2,596,073	176,118	3,054	666,616	3,465,264
	Aleutian Islands	40	2,750	0	90	14,175	17,055
	Total	30,210	4,743,247	348,632	4,434,160	2,029,532	11,585,781
1986	South Peninsula	5,589	1,223,089	235,854	4,031,487	1,749,651	7,245,670
	North Peninsula	11,735	2,463,734	164,071	22,630	271,216	2,933,386
	Aleutian Islands	11	7,702	60	42,621	38,819	89,213
	Total	17,340	3,694,526	399,985	4,096,738	2,059,686	10,268,275

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1987	South Peninsula	9,174	1,449,753	225,120	1,208,556	1,375,887	4,268,490
	North Peninsula	14,186	1,209,435	171,784	3,486	368,696	1,767,587
	Aleutian Islands	0	75	0	0	0	75
	Total	23,360	2,659,263	396,904	1,212,042	1,744,583	6,036,152
1988	South Peninsula	11,075	1,473,651	505,533	7,044,824	1,908,507	10,943,590
	North Peninsula	16,721	1,528,107	233,966	65,242	393,075	2,237,111
	Aleutian Islands	0	4,315	7	183,109	450	187,881
	Total	27,880	3,006,082	739,506	7,293,175	2,302,034	13,368,677
1989	South Peninsula	7,009	2,659,101	441,397	7,289,130	993,492	11,390,129
	North Peninsula	10,698	1,718,001	227,551	4,103	156,992	2,117,345
	Aleutian Islands	0	8,248	0	6,700	0	14,948
	Total	18,013	4,387,764	671,394	7,303,461	1,151,408	13,532,040
1990	South Peninsula	16,497	2,385,560	305,510	2,861,283	1,234,679	6,803,529
	North Peninsula	12,320	2,416,047	192,978	517,724	126,113	3,265,182
	Aleutian Islands	2	12,435	74	282,823	1,038	296,372
	Total	28,844	4,815,326	500,270	3,666,403	1,364,977	10,375,820
1991	South Peninsula	7,510	2,304,531	313,223	10,596,596	1,573,773	14,795,633
	North Peninsula	9,359	2,931,406	218,274	4,249	191,278	2,814,566
	Aleutian Islands	0	796	0	0	0	796
	Total	17,347	4,712,149	535,403	10,621,005	1,780,078	17,665,982
1992	South Peninsula	7,933	3,438,875	414,948	9,759,657	1,310,337	14,931,750
	North Peninsula	13,136	3,575,507	206,813	194,395	341,616	4,331,467
	Aleutian Islands	0	3,082	0	312,072	1,230	316,384
	Atka-Amlia	0	231	42	7,972	308	8,553
	Total	21,069	7,017,695	621,803	10,274,096	1,653,491	19,588,154
1993	South Peninsula	14,083	3,682,604	215,256	9,925,123	1,046,407	14,883,473
	North Peninsula	22,417	3,866,479	64,376	5,328	134,957	4,093,557
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	24	4	145	563	736
	Total	36,500	7,549,107	279,636	9,930,596	1,181,927	18,977,766
1994	South Peninsula	9,474	2,091,009	251,686	9,143,703	2,178,910	13,674,782
	North Peninsula	18,508	1,783,156	241,913	226,315	83,897	3,353,789
	Aleutian Islands	0	47	6	858,787	617	859,457
	Atka-Amlia	0	16	0	896	0	912
	Total	27,982	3,874,228	493,605	10,229,701	2,263,424	17,888,940
1995	South Peninsula	17,078	2,996,353	260,686	16,302,593	1,715,067	21,291,777
	North Peninsula	7,540	3,272,748	135,639	12,171	99,293	3,527,391
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	24,618	6,269,101	396,325	16,314,764	1,814,360	24,819,168
1996	South Peninsula	5,071	1,528,587	278,191	2,187,239	775,057	4,774,145
	North Peninsula	4,941	1,911,126	157,313	53,842	67,956	2,195,178
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	20	0	20
	Total	10,012	3,439,713	435,504	2,241,101	843,013	6,969,343

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
1997	South Peninsula	7,163	2,258,189	112,432	2,303,926	606,254	5,287,964
	North Peninsula	10,352	2,151,010	94,776	50,701	97,380	2,404,219
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	17,515	4,409,199	207,208	2,354,627	703,634	7,692,183
1998	South Peninsula	4,796	2,170,803	154,170	8,040,681	711,526	11,081,976
	North Peninsula	5,288	1,087,552	134,724	34,810	69,516	1,332,530
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	10,084	3,258,355	288,894	8,075,491	781,042	12,414,506
1999	South Peninsula	4,815	2,948,267	192,485	8,443,343	816,966	12,405,876
	North Peninsula	4,886	1,783,804	53,907	4,367	50,120	1,897,084
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	9,701	4,732,071	246,392	8,447,710	867,086	14,302,960
2000	South Peninsula	5,104	1,984,576	257,146	3,549,545	1,055,316	6,851,687
	North Peninsula	3,904	1,968,882	83,655	34,373	93,696	2,184,510
	Aleutian Islands	1	0	59	256,050	0	256,110
	Atka-Amlia	0	0	0	0	0	0
	Total	9,009	3,953,458	340,860	3,839,968	1,149,012	9,292,307
2001	South Peninsula	2,302	607,756	210,899	4,012,057	921,986	5,755,000
	North Peninsula	4,412	1,147,030	22,162	12,469	174,523	1,360,596
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	6,714	1,754,786	233,061	4,024,526	1,096,509	7,115,596
2002	South Peninsula	6,399	1,035,232	202,717	2,170,376	819,030	4,233,754
	North Peninsula	3,852	1,415,872	28,751	21,461	51,040	1,520,976
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	10,251	2,451,104	231,468	2,191,837	870,070	5,754,730
2003	South Peninsula	2,712	1,054,208	131,097	4,258,274	637,305	6,083,596
	North Peninsula	4,545	1,477,391	53,137	18,624	38,755	1,592,452
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	7,257	2,531,599	184,234	4,276,898	676,060	7,676,048
2004	South Peninsula	7,050	2,199,944	235,600	6,665,831	790,109	9,898,534
	North Peninsula	10,402	2,433,778	33,920	15,828	14,958	2,508,886
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	17,452	4,633,722	269,520	6,681,659	805,067	12,407,420
2005	South Peninsula	4,487	2,337,097	143,617	9,416,197	739,460	12,640,858
	North Peninsula	9,198	3,115,807	71,192	3,830	42,539	3,242,566
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	13,685	5,452,904	214,809	9,420,027	781,999	15,883,424

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
2006	South Peninsula	5,412	1,850,029	169,620	4,261,824	1,177,806	7,464,691
	North Peninsula	7,633	2,375,158	93,955	64,207	131,718	2,672,671
	Aleutian Islands	0	2,329	0	991,687	1,534	995,550
	Atka-Amlia	0	0	0	0	0	0
	Total	13,045	4,227,516	263,575	5,317,718	1,311,058	11,132,912
2007	South Peninsula	5,312	2,438,672	150,955	7,299,330	679,787	10,574,056
	North Peninsula	7,609	3,408,818	69,010	137,882	181,009	3,804,328
	Aleutian Islands	0	0	0	1,017,164	0	1,017,164
	Atka-Amlia	0	0	0	0	0	0
	Total	12,921	5,847,490	219,965	8,454,376	860,796	15,395,548
2008	South Peninsula	4,366	2,239,210	225,659	12,710,050	802,404	15,981,689
	North Peninsula	1,799	2,003,906	125,237	21,136	177,364	2,329,442
	Aleutian Islands	1	29	48	784,828	261	785,167
	Atka-Amlia	0	0	0	0	0	0
	Total	6,166	4,243,145	350,944	13,516,014	980,029	19,096,298
2009	South Peninsula	5,847	1,722,929	248,174	7,899,988	1,680,358	11,557,296
	North Peninsula	3,189	2,426,601	67,601	275,083	105,994	2,878,468
	Aleutian Islands	0	703	16	1,625,910	2,005	1,628,634
	Atka-Amlia	0	0	0	0	0	0
	Total	9,036	4,150,233	315,791	9,800,981	1,788,357	16,064,398
2010	South Peninsula	7,848	1,274,112	164,640	833,788	790,131	3,070,519
	North Peninsula	2,772	2,229,978	62,147	7,833	259,063	2,561,793
	Aleutian Islands	2	1,263	0	25,668	4,862	31,795
	Atka-Amlia	0	0	0	0	0	0
	Total	10,622	3,505,353	226,787	867,289	1,054,056	5,664,107
2011	South Peninsula	7,207	1,916,839	153,433	4,992,228	977,755	8,047,462
	North Peninsula	2,368	923,194	19,440	108,830	293,782	1,347,614
	Aleutian Islands	2	1,863	2	632,889	235	634,991
	Atka-Amlia	0	0	0	0	0	0
	Total	9,577	2,841,896	172,875	5,733,947	1,271,772	10,030,067
2012	South Peninsula	7,644	1,993,880	86,724	476,064	610,911	3,175,223
	North Peninsula	1,053	764,388	37,399	1,173	283,035	1,087,048
	Aleutian Islands	0	0	0	173,252	245	173,497
	Atka-Amlia	0	0	0	0	0	0
	Total	8,697	2,758,268	124,123	650,489	894,191	4,435,768
2013	South Peninsula	6,652	2,234,800	293,187	7,798,974	946,764	11,280,377
	North Peninsula	571	721,336	27,452	5,281	130,939	885,579
	Aleutian Islands	0	0	0	0	0	0
	Atka-Amlia	0	0	0	0	0	0
	Total	7,223	2,956,136	320,639	7,804,255	1,077,703	12,165,956

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Year		Chinook	Sockeye	Coho	Pink	Chum	Total <sup>a</sup>
2014	South Peninsula	7,280	1,426,380	296,819	721,209	501,927	2,953,615
	North Peninsula	907	1,964,950	107,785	11,437	128,293	2,213,372
	Aleutian Islands	0	0	0	121,938	0	121,938
	<u>Atka-Amlia</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total	8,187	3,391,330	404,604	854,584	630,220	5,288,925
2004–2013	South Peninsula	6,183	2,020,751	187,161	6,235,427	919,549	9,369,071
Average	North Peninsula	4,659	2,040,296	60,735	64,108	162,040	2,331,840
	Aleutian Islands	1	619	7	525,140	914	526,680
	<u>Atka-Amlia</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	Total	10,842	4,061,666	247,903	6,824,676	1,082,503	12,227,590

*Note:* Due to confidentiality requirements, significant differences in totals may occur between tables.

<sup>a</sup> Does not include test fishery catches.

<sup>b</sup> On June 18, 1984, fishermen harvested 23 Chinook, 63,929 sockeye, 1,900 coho, 18,950 pink, and 8,409 chum salmon in Unimak Pass. Unimak Pass was defined as closed to commercial salmon fishing under the Alaska Peninsula portion of the finfish regulations but open to commercial salmon fishing under the Aleutian Islands portion of the finfish regulation book. After 1984, regulations were passed by the Alaska Board of Fisheries closing the Unimak Pass area to commercial salmon fishing until at least July 10.

Appendix B2.—Alaska Peninsula and Aleutian Islands Management areas commercial salmon harvest in numbers of fish by statistical area, section, and district, 2014.

Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
South Peninsula							
Southeastern District							
281-15	Kupreanof Point <sup>b</sup>	-	-	-	-	-	-
281-25	Stepovak Bay	0	10,303	10,778	5	207	21,293
	East Stepovak Section total	0	10,303	10,778	5	207	21,293
281-30	Stepovak Flats Section	0	0	0	0	0	0
281-40	Grub Gulch/Clark Bay <sup>b</sup>	-	-	-	-	-	-
281-50	Orzinski Bay	0	0	0	0	0	0
281-55	American Bay <sup>b</sup>	-	-	-	-	-	-
281-62	Chichagof Bay <sup>b</sup>	-	-	-	-	-	-
281-65	Suzy Creek <sup>b</sup>	-	-	-	-	-	-
281-67	Dorenoi Bay <sup>b</sup>	-	-	-	-	-	-
	Northwest Stepovak Section total <sup>c</sup>	1	9,366	3,882	3	105	13,357
281-70	Southwest Stepovak Section	2	5,662	1,936	1	70	7,671
281-80	Balboa Bay Section	0	4,245	2,217	0	1	6,463
281-90	Beaver Bay Section	0	0	0	0	0	0
282-10	Popof Strait/Squaw Harbor	546	22,374	9,658	14,627	10,002	57,207
282-11	Unga Cape/East Popof	3,783	142,136	53,262	100,538	147,984	447,703
282-20	Archeredin Bay	30	56,945	1,307	7,448	2,881	68,611
282-25	West Unga Island	114	137,613	9,320	59,224	8,254	214,525
282-30	Outer Zachary Bay <sup>b</sup>	-	-	-	-	-	-

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Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
282-35	Inner Zachary Bay	1	1,819	239	39,476	8,282	49,817
282-40	East Head/West Head	24	5,668	1,138	8,909	7,451	23,190
282-42	Korovin Island	418	65,965	4,014	19,801	26,792	116,990
282-45	Northeast Bight	17	7,328	946	15,547	1,968	25,806
282-50	Koniuji Island	0	0	0	0	0	0
282-65	Southeast Nagai Island	117	90,129	5,993	17,036	7,620	120,895
282-70	Southwest Nagai Island	172	70,335	4,278	10,022	3,400	88,207
282-75	Cape Horn/Porpoise Rocks	8	28,687	1,557	20,602	1,167	52,021
282-80	East Nagai Strait	1	5,386	0	30	691	6,108
	Shumagin Islands Section total	5,231	634,385	91,712	313,260	226,492	1,271,080
Southeastern District Total <sup>c</sup>		5,628	665,649	112,022	321,715	228,813	1,333,827
South Central District							
283-15	Mino Creek - McGinty Point	0	0	0	0	0	0
283-17	Coal Bay - South Cape Tolstoi	4	11,039	153	15,065	841	27,102
	Mino Cr. - Little Coal B. Section total	4	11,039	153	15,065	841	27,102
283-20	Southside Cape Tolstoi <sup>b</sup>	-	-	-	-	-	-
283-21	Northside Cape Tolstoi	5	10,027	22	5,786	224	16,064
283-23	Eastside Pavlof Bay	2	17,630	504	17,953	1,168	37,257
	East Pavlof Bay Section total	7	27,657	526	23,739	1,392	53,321
283-24	Canoe Bay Section	0	0	0	0	0	0
283-25	Northwest Pavlof Bay	0	1,612	6	286	62	1,966
283-26	Long Beach/Ukolnoi	139	98,858	4,241	36,686	4,520	144,444
	West Pavlof Bay Section total	139	100,470	4,247	36,972	4,582	146,410
South Central District total		150	139,166	4,926	75,776	6,815	226,833

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Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Southwestern District							
284-36	Volcano Bay <sup>b</sup>	-	-	-	-	-	-
284-37	Northside Dolgoi Island	92	94,841	3,457	22,839	6,551	127,780
284-38	South Dolgoi/Moss Cape	28	38,112	786	11,393	1,276	51,595
284-39	Poperechnoi Island	0	7,335	377	6,155	129	13,996
	Volcano Bay Section total	120	140,288	4,620	40,387	7,956	193,371
284-42	Belkofski Bay	24	26,111	236	13,962	942	41,275
284-45	King Cove	3	15,319	453	24,806	660	41,241
	Belkofski Bay Section total	27	41,430	689	38,768	1,602	82,516
284-47	South of Deer Island Section	3	9,175	0	182	712	10,072
284-70	South of Cold Bay Section	1	809	0	39	209	1,058
	General Section total	4	9,984	0	221	921	11,130
284-55	Deer Island Section	3	12,321	137	65,806	1,741	80,008
284-62	Outer Cold Bay	0	8,167	1,713	394	571	10,845
284-65	Lenard Harbor	0	2,949	0	0	0	2,949
284-67	Inner Cold Bay	0	3,451	133	127	115	3,826
	Cold Bay Section total	0	14,567	1,846	521	686	17,620
284-75	Thin Point Section <sup>b</sup>	-	-	-	-	-	-
284-80	Morzhovoi Bay Section <sup>b</sup>	-	-	-	-	-	-
284-90	Ikatan Bay Section	461	127,361	19,074	27,573	51,132	225,601
Southwestern District Total <sup>c</sup>		615	346,710	30,038	173,951	64,208	615,522

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Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
285-10	Sanak Island Section	0	1,653	2,798	1,198	819	6,468
285-20	Bird Island	41	27,236	8,347	17,245	11,060	63,929
285-30	Cape Lazaref	147	36,494	12,439	15,235	24,754	89,069
	Otter Cove Section total	188	63,730	20,786	32,480	35,814	152,998
285-40	Cape Lutke Section	948	209,434	126,367	116,352	162,226	615,327
Unimak District total		1,136	274,817	149,951	150,030	198,859	774,823
311-60	Bechevin Bay <sup>b,d</sup>	-	-	-	-	-	-
South Peninsula total <sup>c</sup>		7,280	1,426,380	296,819	721,209	501,927	2,953,615
North Peninsula							
Northwestern District							
311-20	Dublin Bay Section	0	0	0	0	0	0
311-32	Urilia Bay Section	1	3,424	0	48	24	3,497
311-52	Swanson Lagoon Section	0	0	0	0	0	0
311-60	Bechevin Bay Section <sup>d</sup>	0	0	0	0	0	0
311-58	Cape Kreitzen to Cape Glazenap	0	3,586	45	169	3,298	7,098
312-10	Cape Glazenap to Moffet Point	0	1,305	129	150	1,972	3,556
312-20	Izembek Lagoon <sup>b</sup>	-	-	-	-	-	-
312-40	Moffet Bay	34	28,784	437	1,111	89,283	119,649
	Izembek-Moffet Bay Section total	34	33,675	611	1,430	94,553	130,303
Northwestern District total <sup>c</sup>		35	37,099	611	1,478	94,577	133,800

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Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Northern District							
313-10	Black Hills Section	5	19,173	808	688	7,510	28,184
313-30	Nelson Lagoon Section	454	210,858	58,849	322	6,052	276,535
314-12	Port Moller Bight Section	-	-	-	-	-	-
314-20	Herendeen Bay	0	122	0	0	982	1,104
314-30	Moller Bay <sup>b</sup>	-	-	-	-	-	-
	Herendeen-Moller Bay Section total	0	122	0	0	982	1,104
315-11	Bear River	260	300,600	6,965	204	8,925	316,954
315-20	Muddy River	27	100,558	2,740	611	1,884	105,820
	Bear River Section total	287	401,158	9,705	815	10,809	422,774
316-10	Three Hills Section	10	84,844	6,526	1,521	993	93,894
316-20	Outside Ilnik	33	287,790	21,569	6,307	2,008	317,707
316-22	Ilnik Lagoon	0	0	0	0	0	0
316-25	Strogonof Point	33	503,466	598	115	2,780	506,992
	Ilnik Section total	66	791,256	22,167	6,422	4,788	824,699
317-10	Outer Port Heiden Section	50	420,247	8	33	2,387	422,725
317-20	Inner Port Heiden Section	0	0	0	0	0	0
318-20	Cinder River Section <sup>b</sup>	-	-	-	-	-	-
Northern District total <sup>c</sup>		872	1,927,721	101,472	9,873	33,529	2,073,467
North Peninsula total <sup>c</sup>		907	1,964,950	107,785	11,437	128,293	2,213,372

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Statistical Area	Section	Number of salmon <sup>a</sup>					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Unalaska District–Aleutian Islands		0	0	0	0	0	0
302-31	Unalaska Bay	0	0	0	100,644	0	100,644
302-35	Outside Unalaska Bay	0	0	0	0	0	0
302-45	Makushin Bay <sup>b</sup>	-	-	-	-	-	-
	Unalaska Bay Section total	0	0	0	100,644	0	100,644
302-40	Makushin Bay Section	0	0	0	0	0	0
Aleutian Islands total		0	0	0	100,644	0	100,644
Alaska Peninsula and Aleutian Islands areas total <sup>c</sup>		8,187	3,391,330	404,604	854,584	630,220	5,288,925

*Note:* Due to confidentiality requirements, significant differences in totals may occur between tables.

<sup>a</sup> Numbers do not include fish harvested for personal use and ADF&G test fisheries.

<sup>b</sup> Confidentiality requirements prohibit the release of this information.

<sup>c</sup> Total includes data not released due to confidentiality requirements.

<sup>d</sup> The Bechevin Bay Section participates in the South Peninsula’s June fishery and therefore June harvest data in this section is reported toward the South Peninsula’s harvest. There was no commercial fishing effort in June 2013 in the Bechevin Bay Section.

Appendix B3.—Alaska Peninsula and Aleutian Islands areas commercial salmon harvest by gear and species, in numbers and percent, 2014.

	Chinook		Sockeye		Coho		Pink		Chum		Total	
	Number of fish	Percent of total										
Area M												
Seine	6,356	77.6	667,536	19.7	203,303	50.2	725,462	84.9	432,296	68.6	2,034,953	38.5
Drift gillnet	1,084	13.2	2,114,134	62.3	127,363	31.5	63,628	7.4	147,573	23.4	2,453,782	46.4
Set gillnet	747	9.1	609,660	18.0	73,938	18.3	65,494	7.7	50,351	8.0	800,190	7.4
Total	8,187	100.0	3,391,330	100.0	404,604	100.0	854,584	100.0	630,220	100.0	5,288,925	100.0
Area T												
Drift gillnet	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Set gillnet	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Grand Total												
Seine	6,356	77.6	667,536	19.7	203,303	50.2	725,462	84.9	432,296	68.6	2,034,953	38.5
Drift gillnet	1,084	13.2	2,114,134	62.3	127,363	31.5	63,628	7.4	147,573	23.4	2,453,782	46.4
Set gillnet	747	9.1	609,660	18.0	73,938	18.3	65,494	7.7	50,351	8.0	800,190	7.4
Total	8,187	100.0	3,391,330	100.0	404,604	100.0	854,584	100.0	630,220	100.0	5,288,925	100.0

Note: Values do not include test fishery catches. Due to confidentiality requirements, significant differences in totals may occur between tables.

Appendix B4.—Alaska Peninsula area salmon test fishery catches, 1989–2014.

Year		Number of Adult Salmon					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1989	Shumagin Islands	56	1,699	2,446	3,528	739	8,468
	Total South Peninsula	56	1,699	2,446	0	739	4,940
	North Peninsula	6	638	0	0	97	741
	Alaska Peninsula total	62	2,337	2,446	3,528	836	9,209
1990	Shumagin Islands	25	1,284	1,708	4,573	3,147	10,737
	Total South Peninsula	25	1,284	1,708	4,573	3,147	10,737
	Alaska Peninsula total	25	1,284	1,708	4,573	3,147	10,737
1991	Shumagin Islands	465	15,034	3,906	20,160	14,716	54,281
	South Unimak	0	377	0	0	306	683
	Total South Peninsula	465	15,411	3,906	20,160	15,022	54,964
	Alaska Peninsula total	465	15,411	3,906	20,160	15,022	54,964
1992	Shumagin Islands	93	7,039	3,284	10,729	6,372	27,517
	Total South Peninsula	93	7,039	3,284	10,729	6,372	27,517
	Alaska Peninsula total	93	7,039	3,284	10,729	6,372	27,517
1993	Shumagin Islands	330	6,470	4,892	2,984	1,850	16,526
	Total South Peninsula	330	6,470	4,892	2,984	1,850	16,526
	Alaska Peninsula total	330	6,470	4,892	2,984	1,850	16,526
1994	Shumagin Islands	528	16,224	4,219	36,150	13,169	70,290
	Total South Peninsula	528	16,224	4,219	36,150	13,169	70,290
	Alaska Peninsula total	528	16,224	4,219	36,150	13,169	70,290
1995	Shumagin Islands	290	13,410	3,660	9,072	10,005	36,437
	South Unimak	101	7,239	1	105	2,941	10,387
	Total South Peninsula	391	20,649	3,661	9,177	12,946	46,824
	Alaska Peninsula total	391	20,649	3,661	9,177	12,946	46,824
1996	Shumagin Islands	375	9,049	15,183	15,261	14,372	54,240
	South Unimak	80	6,055	0	2,594	4,250	12,979
	Total South Peninsula	455	15,104	15,183	17,855	18,622	67,219
	Alaska Peninsula total	455	15,104	15,183	17,855	18,622	67,219
1997	Shumagin Islands	429	11,226	3,594	8,158	10,407	33,814
	South Unimak	188	11,224	3	3,976	10,682	26,073
	Total South Peninsula	617	22,450	3,597	12,134	21,089	59,887
	Alaska Peninsula total	617	22,450	3,597	12,134	21,089	59,887
1998	Shumagin Islands	28	4,581	24	2,093	3,257	9,983
	South Unimak	95	8,392	0	5,224	6,285	19,996
	Total South Peninsula	123	12,973	24	7,317	9,542	29,979
	Alaska Peninsula total	123	12,973	24	7,317	9,542	29,979

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Appendix B4.–Page 2 of 3.

Year		Number of Adult Salmon					Total
		Chinook	Sockeye	Coho	Pink	Chum	
1999	Shumagin Islands	119	33,513	18	13,045	19,808	66,503
	South Unimak	140	10,039	0	61	3,256	13,496
	Total South Peninsula	259	43,552	18	13,106	23,064	79,999
	Alaska Peninsula total	259	43,552	18	13,106	23,064	79,999
2000	Shumagin Islands	65	9,225	99	5,385	5,790	20,564
	South Unimak	276	12,686	0	7,936	5,547	26,445
	Total South Peninsula	341	21,911	99	13,321	11,337	47,009
	North Peninsula	0	1,482	1	2	4	1,489
	Alaska Peninsula total	341	23,393	100	13,323	11,341	48,498
2001	Shumagin Islands	318	6,258	3,353	9,382	10,772	30,083
	Total South Peninsula	318	6,258	3,353	9,382	10,772	30,083
	North Peninsula	13	4,363	2	10	62	4,450
	Alaska Peninsula total	331	10,621	3,355	9,392	10,834	34,533
2002	Shumagin Islands	29	1,020	11	443	1,227	2,730
	Total South Peninsula	29	1,020	11	443	1,227	2,730
	North Peninsula	0	6,021	14	41	169	6,245
	Alaska Peninsula total	29	7,041	25	484	1,396	8,975
2003	Shumagin Islands	26	819	1,279	4,646	2,275	9,045
	Total South Peninsula	26	819	1,279	4,646	2,275	9,045
	North Peninsula	1	5,785	10	99	178	6,073
	Alaska Peninsula total	27	6,604	1,289	4,745	2,453	15,118
2004	Shumagin Islands	81	507	542	1,131	1,827	4,088
	South Unimak	0	5,845	0	14,485	2,724	23,054
	Total South Peninsula	81	6,352	542	15,616	4,551	27,142
	North Peninsula	0	3,874	35	108	87	4,104
	Alaska Peninsula total	81	10,226	577	15,724	4,638	31,246
2005	Shumagin Islands	67	1,197	2,137	7,117	2,140	12,658
	Total South Peninsula	67	1,197	2,137	7,117	2,140	12,658
	North Peninsula	0	2,291	2	11	36	2,340
	Alaska Peninsula total	67	3,488	2,139	7,128	2,176	14,998

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Appendix B4.–Page 3 of 3.

Year		Number of Adult Salmon					Total
		Chinook	Sockeye	Coho	Pink	Chum	
2006	Shumagin Islands	21	1,211	440	2,254	7,855	11,781
	Total South Peninsula	21	1,211	440	2,254	7,855	11,781
	North Peninsula	20	2,232	2	0	89	2,343
	Alaska Peninsula total	41	3,443	442	2,254	7,944	14,124
2007	Shumagin Islands	12	11,389	781	7,036	1,300	20,518
	Total South Peninsula	12	11,389	781	7,036	1,300	20,518
	North Peninsula	6	4,027	7	29	54	4,123
	Alaska Peninsula total	18	15,416	788	7,065	1,354	24,641
2008	Shumagin Islands	12	9,934	1,891	13,933	11,719	37,489
	Total South Peninsula	12	9,934	1,891	13,933	11,719	37,489
	North Peninsula	0	2,249	54	1	105	2,409
	Alaska Peninsula total	12	12,183	1,945	13,934	11,824	39,898
2009	Shumagin Islands	28	1,587	389	21,101	3,825	26,930
	Total South Peninsula	28	1,587	389	21,101	3,825	26,930
	North Peninsula	6	4,027	7	29	54	4,123
	Alaska Peninsula total	34	5,614	396	21,130	3,879	31,053
2010	Shumagin Islands	13	6,418	179	4,180	1,608	12,398
	Total South Peninsula	13	6,418	179	4,180	1,608	12,398
	North Peninsula	0	2,294	2	19	58	2,373
	Alaska Peninsula total	13	8,712	181	4,199	1,666	14,771
2011	Shumagin Islands	7	1,151	49	11,980	1,315	14,502
	Total South Peninsula	7	1,151	49	11,980	1,315	14,502
	North Peninsula	1	2,434	21	33	66	2,555
	Alaska Peninsula total	8	3,585	70	12,013	1,381	17,057
2012	Shumagin Islands	4	2,668	16	947	1,192	4,827
	Total South Peninsula	4	2,668	16	947	1,192	4,827
	North Peninsula	0	0	0	0	0	0
	Alaska Peninsula total	4	2,668	16	947	1,192	4,827
2013	Shumagin Islands	4	2,366	1,002	7,043	1,632	12,047
	Total South Peninsula	4	2,366	1,002	7,043	1,632	12,047
	North Peninsula	0	2,035	28	34	116	2,213
	Alaska Peninsula total	4	4,401	1,038	7,077	1,748	14,260
2014	Shumagin Islands	356	2,959	957	977	3,270	8,519
	Total South Peninsula	356	2,959	957	977	3,270	8,519
	North Peninsula	0	2,426	3	16	90	2,535
	Alaska Peninsula total	356	5,385	960	993	3,360	11,054

## **APPENDIX C. SUBSISTENCE HARVEST DATA**

Appendix C1.—Estimated subsistence salmon harvest by community and species, in number of fish, Alaska Peninsula Management Area and Unalaska Island, 1985-2013.

Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Sand Point local residents							
1985	60	30	1,410	1,686	420	1,146	4,692
1986	75	45	2,505	1,208	1,560	1,005	6,323
1987	84	87	2,018	1,508	1,160	1,114	5,887
1988	74	146	2,694	853	1,326	1,175	6,194
1989	86	53	6,347	1,050	731	1,149	9,330
1990	80	160	5,648	620	429	1,051	7,908
1991	84	420	6,636	1,092	1,260	2,772	12,180
1992	76	318	4,733	518	1,228	1,036	7,833
1993	76	446	6,435	952	671	996	9,500
1994	92	454	5,838	1,890	1,369	3,100	12,651
1995	73	271	5,993	983	1,597	1,274	10,118
1996	80	200	5,269	1,813	1,843	1,724	10,849
1997	67	315	7,043	788	1,953	1,663	11,762
1998	59	224	4,383	1,040	920	868	7,435
1999	52	254	4,907	442	898	1,053	7,554
2000	61	184	4,488	704	734	979	7,089
2001	61	191	4,653	880	827	1,500	8,051
2002	29	76	1,679	319	416	994	3,484
2003	30	175	2,093	250	505	1,123	4,146
2004	22	94	1,832	148	352	314	2,740
2005	36	67	2,734	599	448	317	4,165
2006	29	61	1,846	170	558	326	2,961
2007	35	60	2,454	200	455	169	3,338
2008	46	55	1,969	780	951	368	4,123
2009	23	53	1,485	288	315	220	2,361
2010	42	103	2,588	336	818	816	4,661
2011	51	272	2,066	696	854	473	4,361
2012	51	121	3,355	591	785	1,086	5,938
2013	49	166	2,237	479	915	581	4,378
2008–2012 average	43	121	2,293	538	745	593	4,289

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Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
King Cove local residents							
1985	39	0	784	3,292	105	20	4,201
1986	24	2	1,834	919	14	120	2,889
1987	39	3	2,320	1,662	206	334	4,525
1988	28	3	555	2,855	265	43	3,721
1989	39	3	1,982	1,973	294	690	4,942
1990	43	24	1,054	2,832	265	367	4,542
1991	60	0	1,477	3,611	225	386	5,699
1992	61	9	1,452	2,891	327	1,177	5,856
1993	59	33	2,021	3,868	259	625	6,806
1994	48	43	2,249	3,247	370	679	6,588
1995	66	46	3,300	3,080	534	1,177	8,137
1996	65	47	4,236	4,354	578	690	9,905
1997	58	29	3,048	3,226	283	691	7,277
1998	54	4	1,795	3,995	620	44	6,458
1999	50	18	3,465	2,471	265	720	6,939
2000	51	13	2,344	3,545	193	365	6,460
2001	52	25	3,982	2,650	130	273	7,060
2002	61	32	4,509	2,529	77	396	7,543
2003	68	22	5,220	3,179	149	649	9,219
2004	61	19	4,697	2,877	186	410	8,189
2005	62	44	5,388	2,511	133	161	8,237
2006	53	16	4,034	2,183	405	516	7,154
2007	52	1	3,088	2,203	162	264	5,718
2008	57	9	3,332	2,931	326	369	6,967
2009	41	57	1,694	1,943	216	174	4,084
2010	48	0	2,406	1,809	87	286	4,588
2011	55	3	3,813	1,513	188	341	5,858
2012	51	52	3,711	922	21	452	5,158
2013	46	7	2,265	1,470	121	271	4,134
2008–2012 average	50	24	2,991	1,824	168	324	5,331

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Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Cold Bay local residents							
1985	10	0	293	84	34	3	414
1986	18	0	184	264	14	26	488
1987	10	0	293	84	34	3	414
1988	24	0	737	66	2	0	805
1989	18	0	231	55	4	22	312
1990	14	0	322	70	1	22	415
1991	23	0	517	30	6	4	557
1992	15	0	336	38	0	0	374
1993	23	0	473	89	3	15	580
1994	16	0	325	88	4	3	420
1995	17	0	307	84	0	10	401
1996	15	15	280	0	0	6	301
1997	12	12	657	0	4	3	676
1998	17	8	433	19	8	4	472
1999	14	0	237	1	0	13	251
2000	16	0	553	50	1	26	630
2001	14	0	512	30	0	0	542
2002	20	0	493	0	0	7	500
2003	19	0	594	0	2	18	614
2004	23	5	679	35	0	23	742
2005	31	2	532	212	2	6	754
2006	31	0	558	31	8	31	628
2007	29	0	661	167	0	3	831
2008	27	0	313	0	7	7	327
2009	20	1	579	31	0	29	640
2010	25	0	830	0	1	9	840
2011	17	0	562	0	2	1	565
2012	19	0	451	64	0	5	520
2013	27	0	592	18	1	11	622
2008–2012 average	22	0	547	19	2	10	578

-continued-

Year	Permits issued	Estimated harvest					
		Chinook	Sockeye	Coho	Pink	Chum	Total
False Pass local residents							
1985	10	30	578	1,858	13	395	2,874
1986	12	13	158	215	188	299	873
1987	12	14	103	443	163	389	1,112
1988	10	11	401	834	29	192	1,467
1989	7	0	231	55	4	22	312
1990	9	1	170	193	19	79	462
1991	17	17	724	500	354	165	1,760
1992	12	12	1,082	502	242	248	2,086
1993	14	23	848	397	156	272	1,696
1994	14	36	906	318	347	354	1,961
1995	15	27	888	179	252	426	1,772
1996	15	23	605	1,028	128	248	2,032
1997	7	8	584	315	153	214	1,274
1998	7	14	586	58	208	245	1,111
1999	7	26	564	902	81	148	1,721
2000	6	0	186	960	20	104	1,270
2001	5	10	242	163	118	104	637
2002	13	31	662	269	20	78	1,060
2003	18	6	1,472	589	216	261	2,544
2004	8	6	446	424	65	32	973
2005	6	0	795	375	0	0	1,170
2006	5	3	188	163	143	120	617
2007	3	0	0	180	0	0	180
2008	2	12	16	10	28	0	66
2009	4	15	69	11	253	39	387
2010	3	6	137	45	50	30	268
2011	3	9	11	32	14	5	71
2012	3	6	79	27	12	11	135
2013	4	6	189	104	30	21	350
2008–2012 average	3	10	62	25	71	17	185

-continued-

Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Nelson Lagoon and Port Moller local residents							
1985	9	5	207	252	2	0	466
1986	9	13	284	302	3	5	607
1987	10	22	245	254	5	14	540
1988	13	26	284	184	0	25	519
1989	9	21	250	227	0	11	509
1990	8	11	291	224	0	0	526
1991	8	20	370	139	1	4	534
1992	9	17	298	191	7	12	525
1993	11	16	561	230	9	26	842
1994	11	71	336	241	6	0	654
1995	10	63	450	429	0	0	942
1996	8	45	465	329	0	11	850
1997	8	16	287	147	5	36	491
1998	13	3	473	295	14	14	799
1999	10	4	389	58	4	0	455
2000	7	10	507	85	0	0	602
2001	6	22	392	46	0	6	466
2002	3	5	140	71	0	0	216
2003	3	3	118	90	0	0	211
2004	4	7	105	140	0	0	252
2005	7	2	257	58	0	0	317
2006	7	8	579	3	0	0	590
2007	6	0	508	0	0	0	508
2008	3	0	750	0	0	0	750
2009	5	0	588	118	3	0	709
2010	6	0	440	125	0	1	566
2011	13	3	447	85	0	1	536
2012	22	13	1,141	89	1	7	1,251
2013	11	43	466	49	4	6	568
2008–2012 average	10	3	673	83	1	2	762

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Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Port Heiden local residents							
1985	6	9	176	0	0	0	185
1986	4	28	282	0	0	0	310
1987	10	66	193	229	0	36	524
1988	10	69	268	134	23	105	599
1989	4	7	222	28	1	4	262
1990	3	21	107	20	0	27	175
1991	6	39	375	25	3	120	562
1992	3	21	104	10	0	25	160
1993	3	80	71	0	0	0	151
1994	2	24	196	0	0	50	270
1995	3	50	119	160	0	0	329
1996	4	22	221	51	0	1	295
1997	4	2	24	40	0	0	66
1998	3	26	100	100	0	0	226
1999	3	25	245	60	0	0	330
2000	3	6	0	21	0	0	27
2001	3	64	132	50	0	10	256
2002	3	120	34	50	0	6	210
2003	3	101	7	40	0	6	154
2004	3	60	80	0	0	0	140
2005	3	0	375	0	0	0	375
2006	2	0	0	30	0	0	30
2007	0	0	0	0	0	0	0
2008	28	182	1,023	813	33	62	2,113
2009	29	206	1,157	69	0	0	1,432
2010	28	153	1,904	234	41	51	2,383
2011	12	10	2,448	0	0	0	2,458
2012	5	29	193	64	0	55	341
2013	4	9	117	0	0	29	155
2008–2012 average	20	116	1,345	236	15	34	1,745

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Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Alaska Peninsula local community residents total							
1985	134	74	3,448	7,172	574	1,564	12,832
1986	142	101	5,247	2,908	1,779	1,455	11,490
1987	185	192	5,499	4,251	1,547	1,941	13,430
1988	159	255	4,939	4,926	1,645	1,540	13,305
1989	163	88	9,368	3,433	1,205	1,923	16,017
1990	166	217	7,592	3,959	714	1,546	14,028
1991	198	457	9,998	5,413	1,820	3,372	21,060
1992	176	377	8,005	4,150	1,804	2,498	16,834
1993	186	598	10,409	5,536	1,098	1,934	19,575
1994	183	628	9,850	5,784	2,096	4,186	22,544
1995	184	457	11,057	4,915	2,383	2,887	21,699
1996	187	352	11,076	7,575	2,549	2,680	24,232
1997	156	382	11,643	4,516	2,398	2,607	21,546
1998	153	279	7,770	5,507	1,770	1,175	16,501
1999	136	327	9,807	3,934	1,248	1,934	17,250
2000	144	213	8,078	5,365	948	1,474	16,078
2001	141	312	9,913	3,819	1,075	1,893	17,012
2002	129	264	7,517	3,238	513	1,481	13,013
2003	141	307	9,504	4,148	872	2,057	16,888
2004	121	191	7,839	3,624	603	779	13,036
2005	145	121	10,189	3,720	598	498	15,126
2006	127	88	7,205	2,580	1,114	993	11,980
2007	113	54	5,742	2,838	477	487	9,598
2008	163	258	7,403	4,534	1,345	806	14,346
2009	122	332	5,572	2,460	787	462	9,613
2010	152	262	8,305	2,549	997	1,193	13,306
2011	151	297	9,347	2,326	1,058	821	13,849
2012	151	221	8,930	1,757	806	1,584	13,298
2013	141	221	5,182	2,136	1,055	888	9,482
2008–2012 average	148	274	7,911	2,725	999	973	12,882

-continued-

Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Alaska State residents residing outside the Alaska Peninsula							
1985	27	0	589	332	0	2	923
1986	5	0	149	88	0	0	237
1987	6	1	278	8	0	2	289
1988	24	2	562	720	21	152	1,457
1989	25	0	1,036	72	8	181	1,297
1990	35	29	996	70	22	43	1,160
1991	51	1	1,347	138	58	179	1,723
1992	53	8	2,734	117	36	76	2,971
1993	76	17	2,069	217	91	63	2,457
1994	73	46	2,034	302	110	220	2,712
1995	76	35	1,659	106	270	482	2,552
1996	47	10	1,100	168	20	48	1,346
1997	61	38	3,581	96	557	278	4,550
1998	80	128	5,150	313	516	151	6,258
1999	50	39	5,157	50	192	101	5,539
2000	34	19	1,846	69	36	84	2,054
2001	44	27	1,854	386	132	103	2,502
2002	27	62	2,036	70	42	112	2,322
2003	24	13	684	29	357	146	1,229
2004	25	14	1,064	56	29	41	1,204
2005	14	55	841	31	20	36	983
2006	26	42	1,148	28	80	104	1,402
2007	25	33	546	0	81	85	745
2008	36	3	622	76	208	51	960
2009	12	26	526	0	0	5	557
2010	31	26	1,225	29	4	9	1,293
2011	12	36	526	5	0	1	568
2012	21	9	472	86	106	25	698
2013	27	12	782	72	49	148	1,063
2008–2012 average	22	20	674	39	64	18	815

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Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Total Alaska Peninsula Area							
1985	161	74	4,037	7,504	574	1,566	13,755
1986	147	101	5,396	2,996	1,779	1,455	11,727
1987	191	193	5,777	4,259	1,547	1,943	13,719
1988	183	257	5,501	5,646	1,666	1,692	14,762
1989	188	88	10,404	3,505	1,213	2,104	17,314
1990	201	246	8,588	4,029	736	1,589	15,188
1991	249	458	11,345	5,551	1,878	3,551	22,783
1992	229	385	10,739	4,267	1,840	2,574	19,805
1993	262	615	12,478	5,753	1,189	1,997	22,032
1994	256	674	11,884	6,086	2,206	4,406	25,256
1995	260	492	12,716	5,021	2,653	3,369	24,251
1996	234	362	12,176	7,743	2,569	2,728	25,578
1997	217	420	15,224	4,612	2,955	2,885	26,096
1998	233	407	12,920	5,820	2,286	1,326	22,759
1999	186	366	14,964	3,984	1,440	2,035	22,789
2000	178	232	9,924	5,434	984	1,558	18,132
2001	185	339	11,767	4,205	1,207	1,996	19,514
2002	156	326	9,553	3,308	555	1,593	15,335
2003	165	320	10,188	4,177	1,229	2,203	18,117
2004	146	205	8,903	3,680	632	820	14,240
2005	159	176	11,030	3,751	618	534	16,109
2006	153	130	8,353	2,608	1,194	1,097	13,382
2007	138	87	6,288	2,838	558	572	10,343
2008	199	261	8,025	4,610	1,553	857	15,306
2009	134	358	6,098	2,460	787	467	10,170
2010	183	288	9,530	2,578	1,001	1,202	14,599
2011	163	333	9,873	2,331	1,058	822	14,417
2012	172	230	9,402	1,843	912	1,609	13,996
2013	168	233	5,964	2,208	1,104	1,036	10,545
2008–2012 average	170	294	8,586	2,764	1,062	991	13,698

-continued-

Year	Permits issued	Estimated harvest					
		Chinook	Sockeye	Coho	Pink	Chum	Total
Unalaska local community residents							
1985	65	0	897	208	1,293	20	2,418
1986	121	0	3,449	847	2,468	375	7,139
1987	81	0	1,097	378	1,780	151	3,406
1988	74	1	962	390	2,626	83	4,062
1989	70	2	1,064	470	1,292	36	2,864
1990	94	4	2,357	681	1,428	100	4,570
1991	89	0	1,294	666	1,075	45	3,080
1992	144	7	2,739	587	1,723	11	5,067
1993	137	17	2,831	697	587	136	4,268
1994	150	1	2,759	774	1,053	48	4,635
1995	159	23	4,446	480	784	23	5,756
1996	189	5	1,107	1,033	492	49	2,686
1997	218	8	4,192	864	440	110	5,614
1998	206	4	3,317	731	729	26	4,807
1999	208	0	2,707	1,327	1,018	13	5,065
2000	205	7	3,073	569	315	24	3,988
2001	201	4	3,850	563	763	100	5,280
2002	226	2	5,267	643	277	63	6,252
2003	220	27	4,814	558	408	41	5,848
2004	207	4	4,343	792	343	26	5,508
2005	207	6	4,210	356	587	15	5,174
2006	193	10	1,722	363	745	92	2,932
2007	171	16	2,391	207	750	36	3,400
2008	195	2	1,833	726	567	115	3,243
2009	205	4	3,398	703	369	194	4,668
2010	211	2	3,930	307	387	26	4,652
2011	218	8	5,191	275	382	73	5,929
2012	206	16	4,905	420	196	35	5,572
2013	206	3	3,737	187	230	69	4,226
2008–2012 average	207	6	3,851	486	380	89	4,813

-continued-

Year	Permits issued	Estimated harvest					Total
		Chinook	Sockeye	Coho	Pink	Chum	
Alaska State residents residing outside the Unalaska District							
1985	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0
1988	3	2	4	0	1	0	7
1989	4	0	48	0	0	0	48
1990	2	0	0	0	0	0	0
1991	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0
1993	2	0	0	0	0	0	0
1994	0	0	0	0	0	0	0
1995	1	0	38	4	7	0	49
1996	0	0	0	0	0	0	0
1997	3	0	0	0	114	0	114
1998	0	0	0	0	0	0	0
1999	3	0	0	0	0	0	0
2000	7	0	4	1	10	0	15
2001	2	0	0	0	0	0	0
2002	5	0	0	0	0	0	0
2003	7	0	30	0	0	0	30
2004	2	0	30	0	0	0	30
2005	10	1	23	0	0	0	24
2006	6	0	0	0	0	0	0
2007	7	0	0	0	0	0	0
2008	9	0	0	0	0	0	0
2009	10	0	1	6	0	0	7
2010	6	0	29	0	1	0	30
2011	12	2	168	0	0	0	170
2012	5	0	6	11	0	0	17
2013	36	0	241	21	3	0	265
2008-2012 average	8	0	41	3	0	0	45

-continued-

Year	Permits issued	Estimated harvest					
		Chinook	Sockeye	Coho	Pink	Chum	Total
Total Unalaska							
1985	65	0	897	208	1,293	20	2,418
1986	121	0	3,449	847	2,468	375	7,139
1987	81	0	1,097	378	1,780	151	3,406
1988	77	3	966	390	2,627	83	4,069
1989	74	2	1,112	470	1,292	36	2,912
1990	94	4	2,357	681	1,428	100	4,570
1991	89	0	1,294	666	1,075	45	3,080
1992	144	7	2,739	587	1,723	11	5,067
1993	139	17	2,831	697	587	136	4,268
1994	150	1	2,759	774	1,053	48	4,635
1995	160	23	4,484	484	791	23	5,805
1996	189	5	1,107	1,033	492	49	2,686
1997	221	8	4,192	864	554	110	5,728
1998	206	4	3,317	731	729	26	4,807
1999	211	0	2,707	1,327	1,018	13	5,065
2000	212	7	3,077	570	325	24	4,003
2001	203	4	3,850	563	763	100	5,280
2002	231	2	5,267	643	277	63	6,252
2003	227	27	4,844	558	408	41	5,878
2004	209	4	4,373	792	343	26	5,538
2005	217	7	4,233	356	587	15	5,198
2006	199	10	1,722	363	745	92	2,932
2007	178	16	2,391	207	750	36	3,400
2008	204	2	1,833	726	567	115	3,243
2009	215	4	3,399	709	369	194	4,675
2010	217	2	3,959	307	388	26	4,682
2011	230	10	5,359	275	382	73	6,099
2012	211	16	4,911	431	196	35	5,589
2013	242	3	3,978	208	233	69	4,491
2008–2012 average	215	7	3,892	490	380	89	4,858

*Note:* The total number of salmon harvested are extrapolated from returned permits.

Appendix C2.—Subsistence salmon harvest by community and species, in number of fish, 2013.

Community	Permits issued	Permits returned	Percent returned	Estimated harvest					Total
				Chinook	Sockeye	Coho	Pink	Chum	
Alaska Peninsula									
Local residents									
Sand Point	49	45	91.8%	166	2,237	479	915	581	4,378
King Cove	46	43	93.5%	7	2,265	1,470	121	271	4,134
Cold Bay	27	26	96.3%	0	592	18	1	11	622
False Pass	4	4	100.0%	6	189	104	30	21	350
Nelson Lagoon & Port Moller	11	9	81.8%	43	466	49	4	6	568
Port Heiden	4	3	75.0%	9	117	0	0	29	155
Local residents total	141	130	92.2%	221	5,182	2,136	1,055	888	9,482
Other State area residents total	27	25	92.6%	12	782	72	49	148	1,063
<hr/>									
Alaska Peninsula total	168	155	92.3%	233	5,964	2,208	1,104	1,036	10,545
<hr/>									
Unalaska									
Unalaska local residents total	206	155	75.2%	3	3,737	187	230	69	4,226
Other State area residents total	36	27	75.0%	0	241	21	3	0	265
Unalaska total	242	182	75.2%	3	3,978	208	233	69	4,491
<hr/>									
Adak	4	3	75.0%	0	0	21	40	0	61

Note: The total number of salmon harvested are extrapolated from returned permits.

Appendix C3.–Adak-Kagalaska Islands estimated personal use salmon harvests, 1988-1997 and Adak District subsistence harvest, 1998-2013.

Year	Permits issued	Permits returned	Percent returned	Estimated total harvest					Total
				Chinook	Sockeye	Coho	Pink	Chum	
<b>Adak-Kagalaska Islands Personal Use</b>									
1988	43	29	67.4%	0	503	23	150	0	676
1989	64	47	73.3%	0	382	0	117	0	499
1990	61	29	47.5%	0	800	47	41	0	888
1991	37	31	86.5%	0	281	6	34	0	321
1992	52	41	78.8%	0	572	30	4	0	606
1993	36	26	72.2%	0	638	12	26	0	676
1994 <sup>a</sup>	0	0	0.0%	–	–	–	–	–	–
1995	4	3	75.0%	0	156	0	0	0	156
1996	6	6	100.0%	0	91	0	0	0	91
1997 <sup>b</sup>	18	12	66.7%	0	229	0	0	4	233
<b>1988–1993 average</b>									
	49	34	71.0%	0	529	20	62	0	611
<b>1995–1996 average</b>									
	5	5	87.5%	0	124	0	0	0	124
<b>Adak District subsistence</b>									
1998	13	10	76.9%	0	399	0	25	0	424
1999	5	5	100.0%	0	164	4	0	0	168
2000	13	12	92.3%	0	265	4	78	0	347
2001	17	14	82.4%	0	474	19	17	0	510
2002	3	3	100.0%	0	150	0	0	0	150
2003	6	5	83.3%	0	363	0	0	0	363
2004	6	4	66.7%	0	336	0	0	0	336
2005	2	2	100.0%	0	188	0	0	0	188
2006	1	1	100.0%	0	74	0	1	0	75
2007	9	6	66.7%	0	488	3	38	0	529
2008	10	6	60.0%	0	397	0	19	0	416
2009	1	1	100.0%	0	25	0	0	0	25
2010	2	1	50.0%	0	50	0	0	0	50
2011	0	0	0.0%	–	–	–	–	–	–
2012	2	2	100.0%	0	25	0	0	0	25
2013	4	3	75.0%	0	0	28	53	0	81
<b>2008–2012 average</b>									
	3	2	66.7%	0	124	0	5	0	129

*Note:* The total number of salmon harvested are extrapolated from returned permits.

<sup>a</sup> U.S. Navy presence at Adak was reduced; there were no request for personal use salmon permits.

<sup>b</sup> In 1997, a substantial number of civilians were hired by the Navy to work in a cleanup effort of Adak.

Appendix C4.–Mortensen’s Lagoon subsistence and commercial sockeye and coho salmon harvests and escapements, in numbers of fish, 2013.

	Permits	Sockeye	Coho
<b>Subsistence Harvest<sup>a</sup></b>			
Cold Bay locals	8	317	0
King Cove locals	13	532	53
Other Alaska residents	1	50	0
Total subsistence harvest	22	899	53
Commercial harvest <sup>b</sup>	9	3,893	1,038
Subsistence & commercial harvest	31	4,792	1,091
<b>Escapement</b>		4,000 <sup>c</sup>	0 <sup>d</sup>

<sup>a</sup> The number of subsistence salmon permit holders estimated to be fishing at Mortensens Lagoon and the estimated harvest are extrapolated from permit returns.

<sup>b</sup> The commercial harvest includes all of statistical area 284-62 (formerly 283-32). Some of the salmon caught in area 284-62 may have been designed for systems other than Mortensens Lagoon

<sup>c</sup> Estimated total escapement (aerial survey).

<sup>d</sup> Peak escapement (aerial survey).

Appendix C5.–Number of Mortensen’s Lagoon subsistence users by community, 1982-2013.

Year	Number of fishers			Total
	Local Cold Bay	Local King Cove	Nonlocal AK residents	
1982	21	6	3	30
1983	18	15	4	37
1984	15	6	6	27
1985	10	5	7	22
1986	11	1	0	12
1987	17	1	4	22
1988	21	0	0	21
1989	12	0	7	19
1990	13	0	14	27
1991	19	2	21	42
1992	15	1	18	34
1993	15	0	39	54
1994	11	1	29	41
1995	11	13	39	63
1996	9	12	20	41
1997	11	10	15	36
1998	12	7	15	34
1999	6	4	6	16
2000	13	10	3	26
2001	12	9	5	26
2002	13	4	6	23
2003	15	16	4	35
2004	18	9	2	29
2005	9	9	2	20
2006	14	13	7	34
2007	17	9	3	29
2008	17	11	3	31
2009	13	3	6	22
2010	20	12	9	41
2011	13	26	9	48
2012	12	14	7	33
2013	8	13	1	22
2008–2012 Average	15	13	7	35

Appendix C6.—Estimated Mortensen’s Lagoon, Thin Point Cove, and Reese Bay subsistence salmon harvest, in number of fish, 1982-2013.

Year	Mortensen’s Lagoon			Thin Point Cove			Reese (Wislow) Bay	
	Permits <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a</sup>	Permits <sup>a</sup>	Sockeye <sup>a</sup>	Coho <sup>a</sup>	Permits <sup>a</sup>	Sockeye <sup>a</sup>
1982	30	590	1,145	–	–	–	–	–
1983	41	300	1,600	–	–	–	–	–
1984	27	745	500	–	–	–	–	–
1985	22	590	831	–	–	–	23	669
1986	12	362	178	15	1,586	656	54	2,824
1987	22	604	254	15	1,226	966	20	806
1988	21	737	66	17	488	2,196	21	792
1989	19	420	28	17	1,479	1,239	12	436
1990	27	745	95	29	751	2,578	12	1,421
1991	42	1,144	83	27	913	3,154	35	1,180
1992	34	851	104	23	547	927	59	2,479
1993	54	1,596	148	37	1,511	3,184	37	1,425
1994	41	903	283	23	734	2,443	60	2,298
1995	63	1,940	175	17	1,307	1,348	82	3,985
1996	41	958	508	37	2,609	2,819	45	968
1997	36	1,440	200	14	746	1,271	121	3,945
1998	34	1,034	164	18	972	1,413	89	2,866
1999	16	443	269	21	2,135	1,123	72	2,091
2000	26	844	291	22	904	1,910	86	2,898
2001	26	918	87	33	2,960	1,754	63	3,389
2002	23	811	77	25	2,913	1,213	63	4,694
2003	35	1,817	434	36	3,002	1,527	106	4,388
2004	29	1,623	146	28	2,877	1,389	86	3,771
2005	20	952	81	31	2,572	964	91	3,363
2006	34	1,594	29	18	1,748	953	52	1,451
2007	29	1,115	166	17	2,040	650	58	1,605
2008	31	1,229	257	31	1,715	2,016	51	1,108
2009	22	650	88	18	1,108	1,376	62	2,040
2010	41	1,748	156	18	1,562	763	96	3,583
2011	48	1,926	165	22	2,067	580	122	4,681
2012	33	1,407	12	0	0	0	108	4,347
2013	22	899	53	16	1,230	925	129	2,720
2008–2012 Average	35	1,392	136	18	1,290	947	88	2,603

Note: Data includes both local and nonlocal Alaska residents.

<sup>a</sup> The number of permit holders and salmon harvested are extrapolated from returned permits.

Appendix C7.—Thin Point Cove subsistence and commercial sockeye and coho salmon harvests and escapements, 2013.

Fishery	Permits	Sockeye	Coho
Subsistence <sup>a</sup>			
King Cove locals	16	1,230	925
False Pass locals	0		
Cold Bay locals	0		
Other Alaska residents	0		
Total subsistence harvest	16	1,230	925
Commercial <sup>b</sup>	2	329	0
Subsistence & commercial harvest		1,559	925
Escapement		6,000 <sup>c</sup>	0 <sup>d</sup>

<sup>a</sup> The number of subsistence permit holders fishing Thin Pint Cove and the number of subsistence salmon harvested are extrapolated from returned permits.

<sup>b</sup> Commercial harvest information was from the fish ticket database and includes all of statistical area 284-75.

<sup>c</sup> Estimated total escapement (aerial survey).

<sup>d</sup> Peak escapement (aerial survey).

Appendix C8.—Lenard Harbor subsistence and commercial coho salmon harvests, 2013.

Fishery	Permits	Coho
Subsistence <sup>a</sup>	4	182
Commercial <sup>b</sup>	6	18
Total harvest	10	200

<sup>a</sup> The number of subsistence permits used at Lenard Harbor and the number of subsistence salmon harvested are extrapolated from returned permits.

<sup>b</sup> Commercial harvest information was from the fish ticket database and includes all of statistical area 284-65, the Lenard Harbor Section.

Appendix C9.—Estimated Lenard Harbor coho salmon subsistence harvests and escapements, 1998-2013.

Year	Permits	Subsistence harvest	Escapement	Total observed run
1998	11	1,043	No information	
1999	6	412	130	542
2000	1	23	600	623
2001	6	457	1,300	1,757
2002	8	581	800	1,381
2003	11	958	1,350	2,308
2004	6	762	587	1,349
2005	13	847	900	1,747
2006	6	664	2,700	3,364
2007	11	812	1,200	2,012
2008	1	45	400	445
2009	5	49	2,600	2,649
2010	4	86	0	86
2011	7	265	0	265
2012	4	128	0	128
2013	4	182	0	182
2007–2012 Average	4	115	600	715

Appendix C10.—Estimated Unalaska Island subsistence sockeye and coho salmon harvest by major location, in number of fish, 2013.

Location <sup>a</sup>	Species	Harvest <sup>b</sup>	Percent of total harvest
Reese Bay (Wislow)	Sockeye	2,720	74%
	Coho	0	0%
Broad Bay	Sockeye	0	0%
	Coho	74	36%
Wide Bay	Sockeye	0	0%
	Coho	0	0%
Nateeken Bay	Sockeye	0	0%
	Coho	9	4%
Captains Bay	Sockeye	13	0%
	Coho	28	13%
Unalaska Lake vicinity	Sockeye	209	6%
	Coho	61	29%
Other locations	Sockeye	737	20%
	Coho	36	17%
Totals	Sockeye	3,679	100%
	Coho	208	100%

<sup>a</sup> The number of successful permit holders and salmon harvested are extrapolated from returned permits.

<sup>b</sup> Some permits fished in more than 1 location.



## **APPENDIX D. ESCAPEMENT DATA**

Appendix D1.–Alaska Peninsula Management area estimated total Chinook, sockeye, pink, and chum salmon escapements by species and year, 1962–2014.

Year	Area	Chinook	Sockeye	Pink <sup>a</sup>	Chum
1962	South Peninsula	0	18,800	1,598,800	399,400
	North Peninsula	4,400	351,200	4,000	150,900
	Total	4,400	370,000	1,602,800	550,300
1963	South Peninsula	0	23,000	1,317,900	446,700
	North Peninsula	6,200	351,000	4,400	203,200
	Total	6,200	374,000	1,322,300	649,900
1964	South Peninsula	0	15,700	1,436,400	454,800
	North Peninsula	25,900	419,900	15,100	156,100
	Total	25,900	435,600	1,451,500	610,900
1965	South Peninsula	0	12,100	1,035,400	228,000
	North Peninsula	22,100	238,400	900	49,300
	Total	22,100	250,500	1,036,300	277,300
1966	South Peninsula	0	17,000	719,400	422,000
	North Peninsula	8,200	283,300	2,000	149,000
	Total	8,200	300,300	721,400	571,000
1967	South Peninsula	0	16,200	445,500	182,900
	North Peninsula	12,200	299,700	700	122,600
	Total	12,200	315,900	446,200	305,500
1968	South Peninsula	0	12,800	823,300	279,100
	North Peninsula	15,800	251,300	26,500	250,800
	Total	15,800	264,100	849,800	529,900
1969	South Peninsula	0	29,500	2,474,900	134,600
	North Peninsula	19,500	575,000	4,400	146,800
	Total	19,500	604,500	2,479,300	281,400
1970	South Peninsula	0	16,500	1,298,900	280,500
	North Peninsula	8,300	451,500	11,100	169,800
	Total	8,300	468,000	1,310,000	450,300
1971	South Peninsula	0	19,400	702,700	343,200
	North Peninsula	5,200	435,100	8,600	109,400
	Total	5,200	454,500	711,300	452,600
1972	South Peninsula	0	11,900	111,400	254,500
	North Peninsula	5,000	190,200	1,300	124,000
	Total	5,000	202,100	112,700	378,500
1973	South Peninsula	0	7,300	110,800	505,500
	North Peninsula	4,300	180,200	200	122,400
	Total	4,300	187,500	111,000	627,900

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Year	Area	Chinook	Sockeye	Pink <sup>a</sup>	Chum
1974	South Peninsula	0	95,600	284,400	257,300
	North Peninsula	3,000	332,800	23,000	105,100
	Total	3,000	428,400	307,400	362,400
1975	South Peninsula	0	51,700	552,100	193,300
	North Peninsula	4,600	516,800	600	109,200
	Total	4,600	568,500	552,700	302,500
1976	South Peninsula	0	69,700	1,456,400	327,200
	North Peninsula	6,000	532,600	37,300	293,400
	Total	6,000	602,300	1,493,700	620,600
1977	South Peninsula	0	64,900	2,677,800	774,900
	North Peninsula	7,100	541,100	8,500	681,200
	Total	7,100	606,000	2,686,300	1,456,100
1978	South Peninsula	0	64,800	2,858,700	600,500
	North Peninsula	13,700	1,213,500	96,800	310,500
	Total	13,700	1,278,300	2,955,500	911,000
1979	South Peninsula	0	53,300	2,629,500	411,100
	North Peninsula	15,800	1,574,000	9,300	305,300
	Total	15,800	1,627,300	2,638,800	716,400
1980	South Peninsula	0	45,900	2,641,600	362,400
	North Peninsula	11,000	1,387,600	103,600	769,500
	Total	11,000	1,433,500	2,745,200	1,131,900
1981	South Peninsula	0	45,700	2,307,500	381,300
	North Peninsula	12,400	1,347,900	6,100	535,200
	Total	12,400	1,393,600	2,313,600	916,500
1982	South Peninsula	0	39,200	2,293,000	386,900
	North Peninsula	20,000	718,400	51,700	457,600
	Total	20,000	757,600	2,344,700	844,500
1983	South Peninsula	0	59,200	851,200	446,500
	North Peninsula	25,700	580,300	4,000	392,600
	Total	25,700	639,500	855,200	839,100
1984	South Peninsula	0	54,800	3,811,600	699,700
	North Peninsula	17,700	826,000	56,600	870,200
	Total	17,700	880,800	3,868,200	1,569,900
1985	South Peninsula	0	49,900	1,614,100	503,400
	North Peninsula	12,900	898,100	1,400	344,200
	Total	12,900	948,000	1,615,500	847,600

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Year	Area	Chinook	Sockeye	Pink <sup>a</sup>	Chum
1986	South Peninsula	0	48,000	1,716,700	544,600
	North Peninsula	8,700	580,300	13,300	243,600
	Total	8,700	628,300	1,730,000	788,200
1987	South Peninsula	0	44,600	1,540,500	620,700
	North Peninsula	10,700	556,000	100	510,900
	Total	10,700	600,600	1,540,600	1,131,600
1988	South Peninsula	0	74,100	2,839,600	496,400
	North Peninsula	11,700	614,900	43,500	500,300
	Total	11,700	689,000	2,883,100	996,700
1989	South Peninsula	0	78,100	1,870,900	310,500
	North Peninsula	5,600	814,400	1,900	212,300
	Total	5,600	892,500	1,872,800	522,800
1990	South Peninsula	0	95,300	1,598,400	354,700
	North Peninsula	7,100	1,032,200	132,200	226,400
	Total	7,100	1,127,500	1,730,600	581,100
1991	South Peninsula	0	124,900	2,946,800	587,600
	North Peninsula	9,600	1,317,300	6,300	303,300
	Total	9,600	1,442,200	2,953,100	890,900
1992	South Peninsula	0	97,600	2,834,400	335,500
	North Peninsula	6,600	861,300	207,600	351,700
	Total	6,600	958,900	3,042,000	687,200
1993	South Peninsula	0	100,341	2,990,140	397,030
	North Peninsula	13,745	1,003,848	72,830	402,380
	Total	13,745	1,104,189	3,062,970	799,410
1994	South Peninsula	0	120,255	3,071,725	579,100
	North Peninsula	38,400	1,211,400	133,200	480,200
	Total	38,400	1,331,655	3,204,925	1,059,300
1995	South Peninsula	0	129,110	6,406,300	726,400
	North Peninsula	24,400	1,077,030	8,200	756,000
	Total	24,400	1,206,140	6,414,500	1,482,400
1996	South Peninsula	0	72,950	3,647,550	610,300
	North Peninsula	25,670	967,890	382,600	823,130
	Total	25,670	1,040,840	4,030,150	1,433,430
1997	South Peninsula	0	104,440	5,243,275	809,050
	North Peninsula	19,250	820,243	24,750	388,185
	Total	19,250	924,683	5,268,025	1,197,235

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Year	Area	Chinook	Sockeye	Pink <sup>a</sup>	Chum
1998	South Peninsula	0	85,440	4,668,065	742,235
	North Peninsula	14,954	894,015	300,000	729,350
	Total	14,954	979,455	4,968,065	1,471,585
1999	South Peninsula	0	96,800	5,015,310	725,180
	North Peninsula	10,907	897,267	20,000	666,275
	Total	10,907	994,067	5,035,310	1,391,455
2000	South Peninsula	0	69,530	2,792,985	522,075
	North Peninsula	9,565	927,194	50,000	594,700
	Total	9,565	996,724	2,842,985	1,116,775
2001	South Peninsula	0	161,630	2,965,136	751,221
	North Peninsula	13,337	875,353	31,141	692,712
	Total	13,337	1,036,983	2,996,277	1,443,933
2002	South Peninsula	0	192,749	3,762,800	602,750
	North Peninsula	18,924	894,543	40,000	679,810
	Total	18,924	1,087,292	3,802,800	1,282,560
2003	South Peninsula	0	198,192	5,511,220	476,540
	North Peninsula	11,078	1,231,411	20,000	447,960
	Total	11,078	1,429,603	5,531,220	924,500
2004	South Peninsula	0	220,861	8,311,410	732,400
	North Peninsula	30,874	1,433,827	122,000	434,950
	Total	30,874	1,654,688	8,433,410	1,167,350
2005	South Peninsula	0	124,000	6,165,634	970,313
	North Peninsula	30,617	1,556,888	52,628	296,640
	Total	30,617	1,680,888	6,218,262	1,266,953
2006	South Peninsula	0	87,783	3,102,445	786,485
	North Peninsula	32,173	1,157,546	252,462	576,043
	Total	32,173	1,245,329	3,354,907	1,362,528
2007	South Peninsula	0	69,013	2,680,213	726,661
	North Peninsula	20,685	1,069,752	45,509	578,784
	Total	20,685	1,138,765	2,725,722	1,305,445

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Year	Area	Chinook	Sockeye	Pink <sup>a</sup>	Chum
2008	South Peninsula	0	95,859	3,338,370	591,950
	North Peninsula	36,072	1,012,320	49,400	470,287
	Total	36,072	1,108,179	3,387,770	1,062,237
2009	South Peninsula	0	128,117	3,067,000	586,830
	North Peninsula	12,807	934,400	91,441	232,591
	Total	12,807	1,062,517	3,158,441	819,421
2010	South Peninsula	0	38,039	742,912	291,912
	North Peninsula	9,387	875,100	32,412	289,410
	Total	9,387	913,139	775,324	581,322
2011	South Peninsula	0	59,794	2,494,950	497,725
	North Peninsula	15,254	795,105	16,778	248,352
	Total	15,254	854,899	2,511,728	746,077
2012	South Peninsula	0	55,900	478,910	205,242
	North Peninsula	3,542	747,090	28,968	280,418
	Total	3,542	802,990	507,878	485,660
2013	South Peninsula	0	37,386	2,320,790	502,600
	North Peninsula	4,346	1,010,400	8,183	230,051
	Total	4,346	1,047,786	2,328,973	732,651
2014	South Peninsula	0	37,670	1,343,880	313,615
	North Peninsula	8,590	1,176,152	96,059	246,111
	Total	8,590	1,213,822	1,439,939	559,726
2004–2013 Average	South Peninsula	0	91,675	3,270,263	589,212
	North Peninsula	19,576	1,059,243	69,978	363,753
	Total	19,576	1,150,918	3,340,242	952,964

Note: Coho salmon escapement estimates are not available due to incomplete data.

<sup>a</sup> North Peninsula pink salmon escapement estimates are based on incomplete data.

**APPENDIX E. METHOD FOR CALCULATING INDEXED  
TOTAL ESCAPEMENT**

Appendix E1.–Method for calculating indexed total escapement.

Aerial surveys have inherently high variability and are influenced by many factors including survey conditions, timing of peak surveys, and variability between surveyors. With the high variability of peak survey dates, between 3 and 5 surveys are conducted per stream, per year. For pink and chum salmon, an approximate 21-day stream life is used to calculate total pink and chum escapements. For sockeye and coho, with their longer stream life, the indexed total escapement is usually the peak escapement count. Due to the high variability, the methods of calculating estimated indexed total escapements without the use of a weir or tower are as follows:

**Chinook, Sockeye, Coho:** These species tend to have a much longer stream life than pink and chum salmon. Therefore, the indexed total escapement is usually the peak escapement count and carcasses. However, it is recognized that there are problems in large systems such as Ilnik and Caribou–David’s Rivers. The basic problem on large systems is the length of time, expense, and fuel needed to do a thorough survey yet meet more pressing obligations.

The Caribou and David’s River complex (including Coastal and other nearby lakes) is so massive a system for the size of its runs that complete surveys are not done.

At Thin Point Lagoon and Lake, estimates of sockeye in the lagoon are added together based on estimated time in lagoon and observations of when sockeye start to move from the lagoon to the lake.

In Morzhovoi (Middle Lagoon), Bluebill, Outer Marker, and Mortensen’s Lagoon systems the escapement is calculated by adding estimates of spawning sockeye approximately 2 weeks apart

**Pink and Chum Salmon:** Again, due to the high variability of survey conditions, between 3 and 5 surveys are conducted per stream per year. From those surveys, the peak number of fish in the stream is added to the total count. If there are any stream counts 21 days prior to the peak count, the number of fish in the stream and the carcasses are added to the total count. Likewise, if there are any counts 21 days after the peak count, those live fish found at both the mouth and in the stream are added to the total count.

**EXAMPLE**

Fictional stream 281-##						
Survey date	Pinks at mouth	Pinks in stream	Pink carcasses	Chums at mouth	Chums in stream	Chum carcasses
10-Jul	5000	<b>1000</b>	<b>5000</b>	0	0	0
17-Jul	15000	25000	5000	0	0	0
1-Aug	10000	<b>150000</b>	10000	0	0	0
15-Aug	3000	100000	25000	500	1000	0
1-Sep	<b>12000</b>	<b>50000</b>	55000	<b>2000</b>	<b>5000</b>	<b>500</b>
Sub total	12000	201000	5000	2000	5000	500
Total	218,000 pink			7,500 chum		

Notes: The indexed total escapement is calculated by adding the figures in bold. The estimate of 21 days stream life was used because significant numbers of carcasses begin to appear about 3 weeks after adult pinks and chums first appear in Alaska Peninsula streams. It is recognized that stream life can vary; however, this method is easily duplicated and is comparable from year to year. Variation in stream life is probably a much smaller factor than variation between observers. With the exception of several small streams, there are no problems with streams being obscured by brush or trees in the Alaska Peninsula and Aleutian Islands Areas. With some exceptions, visibility of spawning grounds is outstanding during periods of normal water flow and clear weather.

## **APPENDIX F. FIELD PERSONNEL**

Appendix F1.–Field personnel, 2014.

Employee	Title	Duties and location
Bob Murphy	FB III	Moffet Point to Cape Menshikof Area Salmon Management Biologist, North Peninsula Herring Management Biologist
Matthew Keyse	FB III	Southeastern District-Alaska Peninsula Area Salmon Management Biologist and South Peninsula/Aleutian Islands Areas Herring Management Biologist, Sand Point
Dawn Wilburn	FB II	Moffet Point to Cape Menshikof Assistant Area Salmon and Herring Management Biologist, Port Moller
Nathaniel Nichols	FB II	Southeastern District-Alaska Peninsula Area Assistant Salmon Management Biologist and South Peninsula/Aleutian Islands Areas Assistant Herring Management Biologist, Sand Point
MaryBeth Loewen	FB II	Salmon Research Biologist
Paul Horn	Pilot II	Pilot and Aircraft Mechanic, Chignik
Steve Hakala	Pilot I	Pilot, Sand Point
Reid Johnson	FB I	Port Moller
Corey Litwiniak	FB I	Sandy River Weir
Nick Fernella	FWT III	Nelson River Weir
Kyle Tidwell	FWT III	Ilnik River Weir
Kaarle Strailey	FWT III	Orzinski Weir
Will Jasper	FWT III	Bear River Weir
Katie Kesling	FWT III	Sand Point Fish Ticket Clerk
Kirsten Woodard	FWT II	Orzinski Lake Weir
Elrik Hanson	FWT II	Nelson River Weir
Katelyn Sorto	FWT II	Port Moller Catch Sampler
Kyle Tidwell	FWT II	Ilnik River Weir
Savanna Burke	FWT II	Sandy River Weir
Jane Murawski	FWT II	Bear River Weir